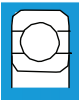
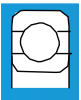
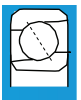
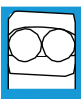
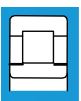
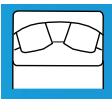
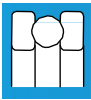




Catalogo Cuscinetti Catalog for Bearings

Informazioni Tecniche - Technicals Information		Pag.3-14
Tipo - Type	Serie - Series	Pag. Page
	Cuscinetti a Sfere <i>Ball Bearings</i>	Pag.16-53
	Microcuscinetti a Sfera <i>Miniature Ball Bearings</i>	Pag.55-58
	Cuscinetti Obliqui a Sfere <i>Angular Contact Ball Bearings</i>	Pag.60-76
	Cuscinetti Orientabili a Sfere <i>Aligning Ball Bearings</i>	Pag.79-86
	Cuscinetti a Rulli Cilindrici <i>Cylindrical Roller Bearings</i>	Pag.90-124
	Cuscinetti a Rulli Conici <i>Taperd Roller Bearings</i>	Pag.126-140
	Cuscinetti Orientabili a Rulli <i>Spherical Roller Bearings</i>	Pag.142-163
	Cuscinetti Assiali <i>Thrust Bearings</i>	Pag.166-175

La scelta di un cuscinetto dipende da molteplici fattori che debbono essere presi in esame al fine di ottenere le prestazioni richieste con la minore spesa possibile.

Nella maggior parte dei casi la scelta viene effettuata allorché il progetto di massima della macchina è già definito e i limiti d'ingombro sono perciò conosciuti, come pure la velocità e i carichi.

Rimane solo la scelta fra i vari tipi di cuscinetti compresi nella gamma di normale produzione tuttavia **K.S.B.** produce anche cuscinetti speciali su richieste specifiche dei clienti e che non sono normalmente riportati su questo catalogo.

Per informazioni su questo tipo di cuscinetti si prega di fare sempre riferimento al Servizio Tecnico **K.S.B.**.

Le note riportate qui di seguito hanno lo scopo di dare delle indicazioni per un corretto orientamento nella scelta dei cuscinetti.

Nella ricerca della soluzione più economica bisogna considerare, congiuntamente al prezzo del cuscinetto, anche il costo dei trattamenti termici, delle lavorazioni, delle manipolazioni e dell'installazione dei particolari inerenti il montaggio (distanziali, coperchi, dispositivi di tenuta assiale, ecc..) considerando altresì le quantità da costruire.

Una scelta corretta del cuscinetto può permettere notevoli economie nella fabbricazione degli altri pezzi e talvolta è perfino vantaggioso impiegare un cuscinetto più costoso, in quanto permette, a conti fatti, un montaggio globale più economico.

Negli studi effettuati dai Servizi Tecnici di **K.S.B.**, su richiesta dei costruttori, i cuscinetti proposti offrono spesso un risparmio di spazio, di materiali e di lavorazioni che vanno a beneficio di tutto il progetto.

Nei capitoli che seguono l'introduzione tecnica generale si possono trovare tutte le informazioni di base, riportate nell'ordine in cui sono generalmente richieste.

Ovviamente è impossibile includere tutte le informazioni relative all'intera gamma di applicazioni immaginabili dei cuscinetti, per questo motivo si fa spesso riferimento al Servizio Tecnico, il quale è in grado di fornire suggerimenti per la scelta del corretto tipo di cuscinetto.

Le informazioni tecniche generali sono valide per i cuscinetti volventi, mentre le informazioni specifiche per un determinato tipo di cuscinetto sono riportate nella sezione introduttiva corrispondente.

Si ricorda che i valori riportati nelle tabelle dei prodotti riguardanti le velocità di base, i coefficienti di carico e il carico limite di fatica sono arrotondati.

K.S.B. nella continua ricerca di miglioramento del proprio standard si riserva anche di modificare in parte o in toto i dati tecnici riportati senza nessun preavviso.

Caratteristiche dei cuscinetti

La maggior parte dei cuscinetti è costituita da anelli muniti di piste volventi (anello interno e esterno), dai corpi volventi (sfere o rulli di vario tipo) e da una gabbia di trattenuta dei corpi volventi.

La gabbia suddivide i corpi volventi ad un intervallo regolare, li tiene in posizione tra la pista esterna e quella interna permettendone la libera rotazione.

Pista volvente interna e esterna (anello)

La superficie su cui i corpi volventi rotolano è chiamata "superficie della pista volvente".

Il carico applicato sul cuscinetto è supportato da questa superficie di contatto.

Normalmente l'anello interno poggia sull'asse o albero, mentre l'anello esterno poggia sull'alloggiamento.

Gabbie

Le gabbie hanno la funzione di mantenere i corpi volventi a distanza uniforme, senza che il carico applicato sul cuscinetto sia applicato direttamente alla gabbia, ed ad impedire che i corpi volventi fuoriescano quando si maneggia il cuscinetto.

I tipi di gabbia differiscono per il metodo con il quale sono prodotti, e comprendono gabbie stampate in acciaio o plastica e gabbie massicce in acciaio o bronzo lavorate con macchine utensili.

*The choice of a bearing depends on many factors that must be taken into consideration in order to obtain the required performance with the lowest possible cost. In most cases the choice is made when the maximum draft of the machine is already defined. The limits of space are therefore known, as well as the speeds and loads. Remains only the choice between the various types of bearings included in the range of normal production however **K.S.B.** also produces special bearings on specific customer requirements and which are not normally found in this catalog.*

*For information on this type of bearing, please always refer to the Technical Service **K.S.B.**.*

The notes given below are intended to give indications for a correct orientation in the choice of the bearings.

In seeking the most economical solution to be considered, together with the price of bearing the cost of heat treatment, machining, handling and installation of the details regarding the assembly (spacers, caps, seals axial, etc..) considering also the amounts to be built.

The correct choice of buffer can allow considerable economies in the manufacture of other pieces, and sometimes it is even advantageous to employ a bearing more expensive, as it allows, on balance, a global fitting cheaper.

*In studies conducted by the Technical Services **K.S.B.** at the request of manufacturers, the bearings have often proposed a saving of space, materials and processes that benefit the whole project.*

The chapters that follow the introduction general technique you can find all the basic information listed in the order in which they are universally required.

Obviously it is impossible to include all the information about the entire range of applications imaginable bearing, for this reason, it often makes reference to the Technical Service, which is able to provide suggestions for the selection of the correct bearing type.

The general technical information are valid for volvent bearings, and information specific to a particular type of bearing can be found in the introductory section accordingly.

Please note that the values in the tables of the products on the basis of speed, load factors and load fatigue limit are rounded.

***K.S.B.** in the continuous search for improvement of their standard also reserves the right to modify all or part of the technical data without prior notice.*

Feature Bearing

Most of the bearings consists of rings with raceways (inner and outer ring), by rolling elements (balls or rollers of various kinds) and a cage for retaining the rolling elements.

The cage divides the rolling elements at regular interval out, keeps them in position between the outer race and the inner allowing free rotation.

Rolling track inner and outer (loop)

The surface on which the rolling elements roll is called "rolling surface of the track".

The applied load on the bearing is supported by this contact surface.

Normally the inner ring rests on the axle or shaft, while the outer ring rests on casing.

Cages

The cages have the function of maintaining the rolling elements in uniform distance without the load applied on the bearing is applied directly to the cage, and to prevent the rolling elements protrude when handling the bearing.

The types of cage differ in the method by which they are produced, and include cages printed steel or plastic cages and massive steel or bronze machined with machine tools.

Rolling elements

The rolling elements are of two general types: balls or rollers.

The rollers have four basic shapes: cylindrical, needle, tapered and spherical.

The balls have a geometrical contact point on the raceway surface of the inner and outer ring, while for the rollers that contact is constituted by

Corpi volventi

I corpi volventi sono di due tipologie generali: sfere o rulli.

I rulli hanno quattro forme di base: cilindrici, rullini, conici e sferici.

Le sfere hanno un contatto geometrico puntiforme sulle superfici delle piste dell'anello interno e esterno, mentre per i rulli tale contatto è costituito da una linea.

Teoricamente i cuscinetti sono costruiti in modo tale da permettere un movimento di rivoluzione ai corpi volventi (rotazione simultanea attorno al proprio asse ed attorno all'asse del cuscinetto).

Classificazione dei cuscinetti

I cuscinetti si suddividono in due tipologie principali:

- Cuscinetti a Sfere
- Cuscinetti a Rulli

I cuscinetti a sfere sono a loro volta suddivisi a seconda della configurazione dei loro anelli in

* Radiali a Sfere

* Obliqui

* Reggispira

I cuscinetti a rulli sono invece classificati secondo la forma dei rulli in

* Cilindrici

* Conici

* Sferici

* Rullini

I cuscinetti possono inoltre essere classificati a seconda della direzione di applicazione del carico:

- i cuscinetti radiali sopportano i carichi radiali

- i cuscinetti assiali sopportano le spinte assiali.

Abbiamo poi un'altro metodo di classificazione che include:

- il numero di corone volventi (singola, multipla, o 4 corone)

- tipo di corona separabile o non che consentono lo smontaggio dell'anello interno o di quello esterno.

Esistono anche cuscinetti progettati per applicazioni speciali come: cuscinetti a rulli per carrelli ferroviari, cuscinetti a rulli per carrelli elevatori, cuscinetti per tavole rotanti, ecc.

I tipi di cuscinetti volventi sono rappresentati nelle tabelle sottostanti

Cuscinetti Radiali rigidi a Sfere

I cuscinetti radiali rigidi a sfere costituiscono il tipo più comune di cuscinetti volventi, in quanto la gamma di applicazioni è estremamente ampia. La pista di rotolamento sia sull'anello interno che su quello esterno si presenta come un'arco circolare con il raggio di curvatura leggermente superiore a quello delle sfere. Possono sopportare carichi radiali e assiali in entrambe le direzioni. Data la loro bassa coppia di rotolamento risultano decisamente adatti per tutte le applicazioni in cui si richiedono velocità elevate e bassa perdita di potenza. Possono essere forniti nelle versioni aperte o chiuse, in quest'ultima versione possono essere dotati di schermi di protezione in acciaio o di tenute in gomma ancorate su uno o entrambi i lati e prelubrificati. La tipologia di gabbia più comunemente utilizzata è quella in acciaio stampato.

a line.

Theoretically the bearings are constructed in such a way as to allow a movement of revolution to the rolling bodies (simultaneous rotation around its own axis and about the axis of the bearing).

Classification of bearings

The bearings are divided into two main types:

- Ball Bearings

- Roller Bearings

The ball bearings are in turn subdivided depending on the configuration of their ring

* Radial Ball Bearings

* Obliques

* Thrust

The roller bearings are classified according to the shape of the rollers in

* Cylindrical

* Tapered

* Spherical

* Rollers

Bearings can also be classified according to the direction of load application:

- Radial bearings withstand radial loads

- Thrust bearings withstand axial loads

Then we have another method of classification that includes:

- The number of rows bearings (single, multiple, or 4 rows)

- Type of crown separable or not to allow the removal of the inner or outer ring.

There are also bearings designed for special application such as roller bearings for railway carriages, roller bearings for forklift trucks, bearings for rotary tables, etc...

The types of bearings are shown in the tables below

Deep Groove Ball Bearings

Deep groove ball bearings are the most common type of rolling bearings, as the range of applications is very wide. The track of rolling both on the inner ring and the external circular presents itself as an arch with the radius of curvature slightly larger than that of sphere. Have a possibility to support radial and axial loads in both directions. Given their low torque of rolling are decidedly suitable for all applications in which demand high speed and low loss power. Can be provided in versions open or closed, in the latter version can be equipped with protection screens in steel or rubber seals anchored on one or both sides and prelubricated. The cage type most commonly used is that of pressed steel.

Cuscinetti a Sfere a Contatto Obliquo

Angular Contact Ball Bearings



Questo tipo di cuscinetti è in grado di supportare oltre ai carichi radiali anche carichi assiali agenti in una sola direzione. Sono disponibili quattro versioni con angolo di contatto 15°, 25°, 30°, 40°. La capacità di carico assiale supportabile aumenta con l'aumentare dell'angolo di contatto. Per applicazioni dove sono richieste velocità elevate si consiglia l'utilizzo di angoli di contatto più piccoli. Generalmente vengono montati in coppia ed il gioco assiale deve essere regolato in modo adeguato. Nei cuscinetti standard vengono utilizzate gabbie in acciaio stampato o in resina poliammidica, ma per i cuscinetti di precisione dove l'angolo di contatto è inferiore a 30° si utilizzano gabbie in resina poliammidica o fenolica.

I cuscinetti a sfere a contatto obliquo a due corone rappresentano la fusione di due cuscinetti a sfere a contatto obliquo ad una corona montati con disposizione "dorso a dorso" con una sola differenza: dispongono di un solo anello interno ed uno esterno, entrambi dotati di pista di rotolamento. Questo tipo di cuscinetti è in grado di supportare carichi assiali in entrambe le direzioni.

Cuscinetti Orientabili a Sfere



Nei cuscinetti di questo tipo l'anello interno è contraddistinto da due piste di rotolamento mentre quello esterno da una sola di forma sferica e con il centro di curvatura coincidente con l'asse del cuscinetto, questo consente all'asse dell'anello interno delle sfere e della gabbia una certa mobilità intorno al centro del cuscinetto. Di conseguenza un possibile disassamento tra le sedi dovuto alla lavorazione oppure a un errore di montaggio viene corretto automaticamente. Questi cuscinetti possono essere forniti anche nella versione con foro conico adatti per il montaggio con bussola di trazione.

Cuscinetti a Rulli Cilindrici



In questo tipo di cuscinetti i rulli di forma cilindrica determinano un contatto di tipo lineare con le piste di rotolamento. Presentano un'elevata capacità di assorbimento del carico radiale e risultano adatti per alte velocità. Prodotti in numerose forme costruttive caratterizzate dalla presenza o assenza dei bordi di ritegno laterali su uno od entrambi gli anelli, le denominazioni usuali sono NU, NJ, NUP, N, NF per i cuscinetti ad una corona ed NNU, NN per i cuscinetti a due corone.

This type of bearings is able to support radial loads in addition to the also axial loads in one direction. Are available four versions with contact angle of 15°, 25°, 30°, 40°. The axial load capacity supportable increases with the increase of the angle of contact. For applications where high speed is recommended the use of contact angles more small. Usually are mounted in pairs and the axial clearance must be adjusted so correct. The standard bearings are used cages pressed steel or polyamide resin, but for precision bearings where the contact angle is less than 30° using cages in polyamide resin or phenolic.

The angular contact ball bearings double row represent the fusion of two angular contact ball bearings single row mounted as "back to back" with only one difference: they have only one inner ring and an outer one, both with track rolling. This type of bearings is able to support axial loads in both directions.

Aligning Ball Bearings

In bearings of this type, the inner ring is characterized by two slopes of rolling while the outer one by one spherical in shape and with the center of curvature coincident with the axis of the bearing, this allows the axis of the inner ring of spheres of the cage and a certain mobility around the center of the bearing. Consequently, a possible misalignment between the sites due to processing or to an assembly error is corrected automatically. This bearings can also be supplied in a version with tapered bore suitable for mounting with adapter sleeve.

Cylindrical Roller Bearings

In this type of bearing the rollers of cylindrical shape determine a linear type of contact with the raceways of rotolamento. Presentano high absorption capacity of the radial load and are suitable for high speeds. Products in numerous constructive forms characterized by the presence or absence of the edges of lateral restraint on one or both rings, the designations are usual NU, NJ, NUP, N, NF for single row bearings, and NNU, NN for the bearings to two crowns.

In tutti i casi l'anello interno e l'anello esterno risultano separabili con notevole vantaggio per le operazioni di montaggio. I cuscinetti radiali a rulli cilindrici in cui l'anello interno presenta due bordi di ritegno e l'anello esterno soltanto uno o viceversa sono in grado di supportare un carico assiale di bassa entità in una sola direzione. I cuscinetti a rulli cilindrici a due corone sono contraddistinti da un'elevata rigidità radiale e sono utilizzati principalmente su macchine utensili di precisione. Generalmente sono costruiti con gabbie in acciaio stampato oppure massicce in ottone ma possono essere utilizzate anche gabbie in resina poliammidica.

Cuscinetti a Rulli Conici



Questo tipo di cuscinetti utilizza come corpi volventi dei rulli conici guidati da un bordo di ritegno sulla faccia maggiore del cono. Questi cuscinetti sono in grado di supportare oltre ai carichi radiali, anche i carichi assiali agenti in una sola direzione. Anche i cuscinetti a rulli conici come quelli a sfere a contatto obliquo ad una corona vengono montati in coppia per permettere di ottenere una corretta regolazione del gioco assiale. Trattandosi di un cuscinetto scomponibile si può procedere al montaggio separato dei coni e delle coppe. I cuscinetti a rulli conici vengono suddivisi in tre tipologie in base al loro angolo di contatto, normale, medio, forte. Sono disponibili anche cuscinetti a rulli conici a due ed a quattro corone. Per queste tipologie di cuscinetti vengono solitamente utilizzate gabbie in acciaio stampato.

Cuscinetti Orientabili a Rulli



I cuscinetti di questo tipo presentano come corpi volventi dei rulli a forma di botte simmetrica tra l'anello interno dotato di due piste di rotolamento e l'anello esterno con una sola pista di rotolamento di forma sferica e con il centro di curvatura coincidente con l'asse del cuscinetto. Questo conferisce un'orientabilità simile a quella dei cuscinetti radiali orientabili a sfere. I cuscinetti orientabili a rulli sono in grado di supportare non soltanto elevati carichi radiali ma anche carichi assiali in entrambe le direzioni. Dotati di un'eccellente capacità di carico radiale rappresentano la soluzione ideale per tutte le applicazioni contraddistinte da carichi elevati o da carichi d'urto. Disponibili anche con foro conico per un montaggio diretto su alberi conici o utilizzando le opportune bussole di trazione o di pressione. Vengono normalmente forniti con gabbia in acciaio stampato o massiccia in ottone.

In all cases the inner ring and the outer ring are separable, with considerable advantage for the assembly operations. The bearings Cylindrical roller bearings in which the inner ring has two edges of the outer ring and retaining only one or vice versa are able to support an axial load of low entity in one direction. The cylindrical roller bearings, double row are characterized by high radial rigidity and are used primarily on precision machine tools. Generally, they are built with pressed steel cages or machined brass cages but can also be used in polyamide resin.

Tapered Roller Bearings

This type of bearings as rolling elements of the conical rollers guided by a retaining edge on the major face of the cone. This bearings are able to support in addition to radial loads, also the axial loads acting in one direction only. Even the tapered roller bearings such as angular contact ball bearings single row are mounted in pairs to allow you to obtain a correct axial clearance adjustment. Being a multi-piece bearing you can proceed to the separate mounting of cones and cups. The tapered roller bearings are divided into three types according to their contact angle, normal, medium, strong. There are also two tapered roller bearings and four-row. For these types of bearings are usually utilized pressed steel cages.

Spherical Roller Bearings

The bearings of this type have as rolling elements of the roller barrel shaped symmetrical between the inner ring has two raceways and the outer ring with a single raceway spherical in shape and with the center of curvature coincident with the axis of the bearing. This confers orientation from similar to that of the radial bearings adjustable ball. The spherical roller bearings are able to support not only high radial loads but also axial loads in both directions. Equipped with excellent radial load capacity are the ideal solution for all applications characterized by high loads or shock loads. Also available with conical for direct mounting on tapered shafts or with the appropriate adapter sleeves or pressure. Are normally supplied with steel cage printed or solid brass.

Cuscinetti assiali

Thrust Bearings



I cuscinetti assiali a sfere a semplice effetto si presentano con anelli simili a ralle sulla cui superficie è ricavata la pista di rotolamento. L'anello interno adiacente all'albero viene comunemente chiamato come ralla per l'albero, mentre quello esterno adiacente all'alloggiamento viene chiamato ralla per alloggiamento. Nei cuscinetti assiali a sfere a doppio effetto tra le due corone di sfere viene inserito un anello centrale fissato assialmente all'albero. Solitamente per i cuscinetti più piccoli si utilizzano gabbie in acciaio stampato mentre per quelli di maggiore dimensione si utilizzano gabbie massicce in ottone.

Limiti dimensionali

Normalmente lo spazio disponibile per i cuscinetti è limitato. Nella maggior parte dei casi il diametro dell'albero o il diametro del foro del cuscinetto è scelto in funzione delle esigenze di altre parti della macchina. Perciò i tipi e le dimensioni dei cuscinetti vengono stabiliti in funzione dei diametri dei fori normalizzati dei cuscinetti. Per questo motivo tutte le tabelle dimensionali sono ordinate secondo i diametri dei fori. Esiste un'ampia gamma di tipi e di dimensioni di cuscinetti, il tipo adatto ad una particolare applicazione può normalmente essere trovato nelle citate tabelle.

Carico sul Cuscinetto

Le caratteristiche dell'entità e la direzione dei carichi agenti su di un cuscinetto sono estremamente variabili. Generalmente i coefficienti di carico indicati nelle tabelle dimensionali dei cuscinetti indicano le capacità di carico di questi ultimi. Comunque determinando il tipo di cuscinetto idoneo si rende necessario considerare se il carico agente sia puramente radiale, puramente assiale, un carico combinato, etc.. Se prendiamo in esame dei cuscinetti a sfere e dei cuscinetti a rulli della stessa serie dimensionale è necessario tenere presente che i cuscinetti a rulli hanno una capacità di carico maggiore e che possono operare in presenza di maggiori vibrazioni e carichi ad urto.

Regime di Rotazione

Il regime di rotazione dei cuscinetti dipende dal tipo di cuscinetto, dalla propria dimensione, dalla propria precisione, dal tipo di gabbia, dal carico e dalle condizioni di lubrificazione. Il numero di giri ammessi indicato nelle tabelle dimensionali per la lubrificazione a grasso e ad olio si riferiscono ai cuscinetti K.S.B. di tipo normale. Generalmente i cuscinetti a sfere, quelli obliqui a sfere e quelli a rulli cilindrici sono i più adatti alle applicazioni con un'elevato numero di giri.

Rigidità

In condizioni di carico si manifestano delle deformazioni elastiche in corrispondenza delle superfici di contatto dei corpi volventi e delle piste dei cuscinetti. I cuscinetti a rulli sono più rigidi di quelli a sfere e quindi sono raccomandati quando è necessario ridurre al minimo tali deformazioni. In alcuni casi ai cuscinetti viene conferito un carico iniziale (precarico) al fine di aumentare la loro rigidità di supporto. Questo tipo di procedura viene solitamente applicata ai cuscinetti radiali a sfere, a quelli obliqui a sfere ed a quelli a rulli conici.

Disallineamento

Le flessioni dell'albero, i diversi livelli di precisione fra albero e alloggiamento, gli errori di montaggio etc... sono la causa di un determinato grado di disallineamento tra l'anello interno e quello esterno del cuscinetto. Nei casi in cui il grado di disallineamento è relativamente elevato la scelta più appropriata è quella dei cuscinetti orientabili a sfere, dei cuscinetti orientabili a rulli o di gruppi aventi caratteristiche auto-allineanti.

Tolleranze

La precisione dimensionale e quella di rotazione dei cuscinetti sono regolate dalle normative ISO e JIS. Per le applicazioni che richiedono

The thrust ball bearings single-acting are presented with rings similar to washers on the surface is obtained the raceway. The inner ring adjacent to the tree is commonly called as fifth wheel to the shaft, while the outer adjacent housing is called housing washers. In thrust ball bearings Double-effect relationship between the two rows of balls vine inserted a ring axially fixed central shaft. Usually for smaller bearings are used pressed steel cages while those of larger size are used in massive brass cages.

Dimensional Limit

Normally the space available for the bearings is limited. In most cases the diameter of the shaft or the hole diameter of the bearing is chosen in function of the needs of other parts of the machine. Therefore, the types and dimensions of the bearings are fixed in function of the diameters of standardized holes of the bearings. For this reason, all the dimension tables are arranged according to the diameters of the holes. There is a wide range of types and sizes of bearings, the type suitable for a particular application can normally be found in the aforementioned tables.

Bearing Load

The characteristics of the magnitude and direction of the loads acting upon a bearing are extremely variable. Generally, the load factors specified in the bearing tables indicate the load capacity of the latter. However, determining the type of the correct bearing it is necessary to consider whether the acting load is purely radial, purely axial load combined, etc. ... If we look at the ball bearings and roller bearings of the same size serie you need to keep in mind that the roller bearings have a higher load capacity and can operate in the presence of higher vibration and shock loads.

Regime Rotation

The speed of rotation of the bearings depends on the type of bearing, by their size, tolerances, the type of cage, the load and lubrication conditions. The permissible speed indicated in the dimension tables for grease and oil bearings refer to K.S.B. normal type. Generally ball bearings, angular contact ball bearings and cylindrical roller bearings are most suitable for applications with high number of revolutions.

Rigidity

In load conditions occur in correspondence of the elastic deformation of the contact surfaces of the rolling elements and raceways of the bearings. The roller bearings are more rigid than those bearings and therefore are recommended when it is necessary to minimize these distortions. In some cases the bearings is given an initial load (preload) in order to increase their rigidity of support. This type of procedure is usually applied to deep groove ball bearings, angular contact ball bearings and tapered roller bearings.

Misalignment

The flexion of the shaft, the different levels of accuracy between the shaft and housing, mounting errors etc ... are the cause of a certain degree of misalignment between the inner ring and the outer bearing. In cases where the degree of misalignment is relatively high the most appropriate choice is that of the self-aligning ball bearings, spherical roller bearings or self-aligning groups with similar characteristics.

Tolerances

The dimensional accuracy and the rotation of the bearings are regulated by ISO and JIS standards. For applications that require a high precision of rotation of the shaft and a high-speed operation are recommended bearings tolerance class 5 or higher.

una elevata precisione di rotazione dell'albero ed un funzionamento ad alta velocità sono raccomandati i cuscinetti della classe di tolleranza 5 o superiore.

Livello sonoro e Coppia d'attrito

I cuscinetti volventi sono prodotti con un processo che rispetta le caratteristiche di elevata precisione e quindi presentano una rumorosità ed una coppia d'attrito molto basse. Per le applicazioni nelle quali è richiesto un funzionamento particolarmente silenzioso e con una bassa coppia d'attrito i cuscinetti radiali a sfere e quelli a rulli cilindrici sono i più appropriati.

Montaggio e Smontaggio

Alcune applicazioni per motivi di ispezioni periodiche o di riparazioni richiedono frequenti montaggi e smontaggi. I cuscinetti più adatti a tali applicazioni sono quelli con l'anello interno o quello esterno separabile come per esempio i cuscinetti a rulli cilindrici, i cuscinetti a rullini e i cuscinetti a rulli conici. L'utilizzo di bussole di trazione semplifica il montaggio e lo smontaggio dei cuscinetti orientabili a sfere o rulli.

Caratteristiche dei Cuscinetti Volventi

I cuscinetti volventi sono disponibili in varie forme e varietà, ciascuna con le proprie caratteristiche. In confronto ai cuscinetti a strisciamento tutti i cuscinetti volventi presentano i seguenti vantaggi:

- Il coefficiente di attrito di primo distacco è inferiore e tra quest'ultimo e quello dinamico esiste solo una piccola differenza.
- Rispondono ad una standardizzazione internazionale sono pertanto intercambiabili e prontamente reperibili.
- La lubrificazione è semplice e il fabbisogno di lubrificazione è limitato.
- Generalmente un cuscinetto può sopportare contemporaneamente sia un carico radiale che una spinta assiale.
- Possono essere utilizzati in applicazioni che prevedono sia alte che basse temperature.
- La rigidità dei cuscinetti può essere aumentata per mezzo del precarico.

Caratteristiche dei Cuscinetti Radiali e Assiali

La maggior parte dei cuscinetti di questo tipo può sopportare contemporaneamente sia carichi radiali che carichi assiali. Generalmente i cuscinetti con un'angolo minore di 45° hanno capacità di carico radiale superiore e sono classificati come cuscinetti radiali. Mentre i cuscinetti con angolo di contatto superiore a 45° hanno una maggiore capacità di carico assiale e sono classificati come cuscinetti assiali. Esistono inoltre cuscinetti combinati che assommano le caratteristiche di entrambi.

Cuscinetti standard e cuscinetti speciali

Le dimensioni d'ingombro e la configurazione dei cuscinetti standard sono definite da norme internazionali, ciò consente una facile reperibilità e intercambiabilità dei cuscinetti stessi. Pertanto in fase di progettazione si consiglia per quanto possibile di adottare cuscinetti standard. Comunque secondo il tipo di applicazione o funzione può essere necessario impiegare cuscinetti speciali. K.S.B. è in grado di fornire cuscinetti specifici per una data applicazione o cuscinetti integrati con altri componenti.

Durata dei Cuscinetti

Durante il funzionamento anche se il cuscinetto lavora in condizioni normali sia le superfici delle piste che quelle dei corpi volventi sono costantemente sottoposte a ripetute sollecitazioni di compressione che causano lo sfaldamento delle superfici stesse. Questo sfaldamento che può causare il cedimento del cuscinetto è una conseguenza della fatica del materiale. La durata effettiva di un cuscinetto è normalmente definita in termini del numero totale di giri che un cuscinetto può compiere prima che si manifesti lo sfaldamento delle superfici delle piste o dei corpi volventi.

Altre cause di cedimento di un cuscinetto sono di frequente attribuite a problemi di tipo: grippaggio, abrasione, rottura, scheggiatura, corrosione, ossidazione, etc...

Sound level and friction torque

The rolling bearings are produced with a process that respects the characteristics of high precision and thus have a noise level and a pair of friction very low. For applications in which it is required a particularly quiet operation and with a low friction torque bearings radial ball bearings, and cylindrical roller are the most appropriate.

Mounting and Dismounting

Some applications for reasons of periodic inspections or repairs require frequent assembly and disassembly. The bearings most suitable for such applications are those with the ring inner or outer separable such as cylindrical roller bearings, needle roller bearings and tapered roller bearings. The use of adapter sleeves simplifies the assembly and disassembly of the spherical balls or rollers.

Characteristics of Rolling Bearing

Rolling bearings are available in various shapes and varieties, each with its own technical prescriptions. In comparison to the bearings all rolling bearings have the following advantages:

- *The coefficient of static friction is lower, and between this and the dynamic there is only a small difference.*
- *Respond to international standardization are therefore interchangeable and readily available.*
- *Lubrication is simple and the need for lubrication is limited.*
- *Usually a bearing can bear a radial load that is simultaneously an axial thrust.*
- *Can be used in applications where both high and low temperatures.*
- *The stiffness of the bearings can be increased by means of the preload.*

Characteristics of Radial and Thrust Bearings

The majority of bearings of this type can bear simultaneously both radial loads that axial loads. Generally the bearings at an angle less than 45° have higher radial load capacity and are classified as radial bearings. While the bearings with contact angle greater than 45° have a greater axial load capacity and are classified as axial bearings. There are also combined bearings which sum up the characteristics of both.

Standard bearings and special bearings

The overall dimensions and configuration of standard bearings are defined by international standards, this allows easy availability and interchangeability of bearings. Therefore, in the design phase it is recommended as far as possible to adopt standard bearings. However according to the type of application or function can be necessary to use special bearings. K.S.B. is able to provide bearings specific for a given application or bearings integrated with other components.

Duration of Bearings

During operation, even if the bearing operating under normal conditions is that the surfaces of the slopes of the rolling elements are constantly subjected to repeated compressive stresses which causes flaking of these surfaces. This flaking that can cause bearing failure is a result of material fatigue. The actual life of a bearing is usually defined as the total number of revolutions a bearing can undergo before flaking of the surfaces of the raceways or rolling elements.

Other causes of bearing failure are often attributed to problems such as: seizure, abrasion, cracking, chipping, corrosion, oxidation, etc ...

However, the so-called causes of bearing failure are sourced from a mounting unsuitable to insufficient lubrication or improper, incorrect or held by an incorrect choice of the bearing stesso. This causes of bearing failure are considered separately looking the disintegration surface as they can be avoided by taking the right precautions and are not attributable to material fatigue.

Comunque le cosiddette cause del cedimento del cuscinetto sono originate da un montaggio non idoneo, da una lubrificazione insufficiente o impropria, da tenuta errata o da una scelta non corretta del cuscinetto stesso. Tali cause di cedimento del cuscinetto sono considerate separatamente dall'aspetto dello sfaldamento superficiale poichè possono essere evitate prendendo le giuste precauzioni e non sono da imputare alla fatica del materiale.

Dimensioni d'ingombro

Le dimensioni principali di un cuscinetto volvente conosciute come "dimensioni d'ingombro" per poter facilitare l'intercambiabilità a livello internazionale le dimensioni d'ingombro sono state normalizzate dalla ISO (International Standards Organization). Le dimensioni d'ingombro che sono state normalizzate sono:

- Il diametro del foro del cuscinetto
- Il diametro esterno
- La larghezza o l'altezza
- La dimensione dei raccordi

Tali dimensioni sono le più importanti quando si deve considerare la compatibilità del cuscinetto con l'albero e con l'alloggiamento. Come regola generale però le dimensioni relative alla costruzione interna del cuscinetto non sono coperte dalla normativa. Per quanto riguarda i cuscinetti con dimensioni metriche sono stati normalizzati 90 dimensioni dei fori (d) da 0,6 mm a 2500 mm.

La combinazione dei diametri esterni dei cuscinetti (D) con quella dei diametri dei fori forma la serie dei diametri che con la corrispondente dimensione della larghezza (B) definiscono la serie ed il tipo del cuscinetto. Per i cuscinetti assiali non esiste una serie della larghezza, tale dimensione è compresa invece nella serie delle altezze. Le serie sopracitate formano insieme la serie dimensionale.

Lubrificazione

Lo scopo della lubrificazione dei cuscinetti è quello di prevenire il contatto metallico tra le varie parti che ruotano e quelle che strisciano. Questo è reso possibile grazie alla formazione di un sottilissimo strato di olio o di grasso sulle superfici di contatto, permettendo così i seguenti vantaggi:

- Riduzione dell'attrito e dell'usura
- Dissipazione del calore d'attrito
- Aumento della vita del cuscinetto
- Prevenzione dall'ossidazione
- Protezione da elementi pericolosi

Per poter ottenere gli effetti sopra citati deve sempre essere scelto il metodo di lubrificazione adeguato alle specifiche condizioni operative. Si deve anche scegliere un lubrificante affidabile e di buona qualità oltre che un sistema di tenuta adeguatamente progettato che prevenga l'inclusione nell'interno del cuscinetto di elementi nocivi quali polvere, acqua, etc... e che impedisca al lubrificante stesso di fluire verso l'esterno. Quasi tutti i cuscinetti volventi possono utilizzare sia la lubrificazione ad olio quanto quella a grasso ma, in alcune speciali applicazioni, può essere impiegato un lubrificante solido come il bisolfuro di molibdeno o la grafite.

In linea di massima esistono due tipi di lubrificazione:

- Lubrificazione a Grasso
- Lubrificazione a Olio

Ciascuno dei due sistemi ha determinate caratteristiche che il progettista deve sempre considerare attentamente prima di decidere quale tipo utilizzare.

Lubrificazione a Grasso

I grassi lubrificanti sono di impiego relativamente facile e richiedono sistemi di tenuta più semplici. Per questi motivi il grasso è il lubrificante più usato per i cuscinetti volventi. E' possibile utilizzare cuscinetti con tenute, prelubrificati con grasso, oppure cuscinetti senza tenute. In questo caso occorre riempire il cuscinetto e l'alloggiamento con la giusta quantità di grasso e aggiungere o sostituire il grasso regolarmente. I grassi lubrificanti sono composti con olio sia a base minerale che a base sintetica alla quale vengono aggiunti l'addensante e altri

Dimensions

The main dimensions of a bearing known as "dimensions" in order to facilitate the interchangeability international boundary dimensions have been standardized by ISO (International Standards Organization). The overall dimensions that have been standardized are:

- The diameter of the bearing bore
- The outer diameter
- The width or height
- The size of the fittings

These dimensions are the most important when one has to consider the compatibility of the bearing with the shaft and with the housing. As a general rule, however, the dimensions of the internal construction of the bearing are not covered by the legislation. Regarding the bearings metric dimensions were normalized 90 holes of a size (d) from 0.6 mm to 2500 mm.

The combination of the external diameters of the bearings (D) with that of the diameters of the holes form the series of diameters with the corresponding dimension of the width (B) define the number and type of bearing. For the thrust bearing there is a series of wide, this dimension is included in the series instead of heights. The aforementioned series together form the dimensional series.

Lubrication

The purpose of the lubrication of the bearings is to prevent metallic contact between the various parts that rotate and those that crawl. This is made possible due to the formation of a thin layer of oil or grease on the contact surfaces, thus allowing the following advantages:

- Reduction of friction and wear
- Heat dissipation of friction
- Increased bearing life
- Prevention of rust
- Protection from harmful elements

In order to obtain the effects mentioned above must always be chosen lubrication method adapted to the specific operating conditions. You should also choose a lubricant reliable and of good quality as well as a sealing system that prevents the inclusion adequately designed in the inner bearing of harmful elements such as dust, water, etc. ... and preventing the same lubricant to flow to the outside. Almost all of the rolling bearings can use both the oil lubrication as that in fat but, in some special applications, can be used a solid lubricant such as molybdenum disulfide or graphite.

In principle there are two types of lubrication:

- Grease Lubrication
- Lubrication oil

Each of the two systems has certain characteristics that the designer should always consider carefully before deciding which type to use.

Grease Lubrication

Lubricating greases are relatively easy to use and require sealing systems easier. For these reasons, the fat is the most widely used lubricant for rolling bearings. And possible to use sealed bearings, lubricated with grease, bearings or unsealed.

In this case, fill the bearing and housing with the right amount of fat and add or replace the fat regularly. Lubricating greases are made with mineral based oil is that synthetic base to which are added the thickener and other additives. The properties of all fats are determined by the type of oil used and the combination with the thickener, and various additives. Since the performance of various fats also the same type varies greatly between a producer and the other is always necessary to check carefully the characteristics of the producer chooses when running a fat.

additivi. Le proprietà di tutti i grassi sono determinate dal tipo di olio impiegato e dalla combinazione con l'addensante e i vari additivi. Dato che le prestazioni dei vari grassi anche appartenenti allo stesso tipo varia grandemente tra un produttore e l'altro è sempre necessario controllare attentamente le caratteristiche del produttore quando si sceglie un grasso.

Miscibilità dei Grassi

Quando vengono mescolati grassi di tipo diverso la loro consistenza risultante può variare (normalmente diventa più morbida), la temperatura massima di utilizzo diminuisce e si manifestano altre variazioni delle caratteristiche. Generalmente non dovrebbero mai essere mescolati grassi con oli base differenti e grassi con addensanti di tipo diverso. Inoltre non si dovrebbero mescolare grassi di produttori diversi a causa della diversità degli additivi contenuti. Comunque nel caso si debbano mescolare grassi diversi è necessario almeno scegliere grassi con lo stesso tipo di olio base e lo stesso addensante.

Quantità di Grasso

La quantità di grasso da impiegare in ogni specifica situazione dipende da molti fattori, correlati con la dimensione e la forma dell'alloggiamento, eventuali limiti di spazio, regime di rotazione del cuscinetto e tipo di grasso usato. Come regola generale, i cuscinetti dovrebbero essere riempiti con una quantità di grasso dal 30 al 40% della loro capacità, mentre l'alloggiamento dovrebbe essere riempito con una quantità che va dal 30 al 60%. Dove i regimi di rotazione sono elevati e l'aumento di temperatura deve essere contenuto al minimo deve essere usato un quantitativo ridotto di grasso. Una quantità eccessiva di grasso causa un'aumento della temperatura che in alcuni casi può provocare una riduzione della consistenza facendo fuoriuscire il grasso.

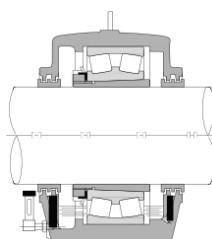
Riempimento

Dato che le proprietà del grasso decadono con il passare del tempo si rende necessario provvedere alla rilubrificazione a intervalli determinati che dipendono dal tipo di cuscinetto, dalle sue dimensioni, dal regime di rotazione, dalla temperatura e dal tipo di grasso. Con l'aumentare della temperatura operativa gli intervalli di rilubrificazione devono essere accorciati di conseguenza. Normalmente per ogni 10° di incremento della temperatura del cuscinetto oltre gli 80° C, gli intervalli di rilubrificazione si riducono di circa il 50%.

Lubrificazione a Olio

La lubrificazione a olio è adatta alle applicazioni nelle quali si richiede che il calore generato dal cuscinetto o quello che fluisce nel cuscinetto da altre sorgenti sia asportato da quest'ultimo e dissipato all'esterno.

Lubrificazione a bagno d'olio



La lubrificazione a bagno d'olio rappresenta il sistema più usato ed è ampiamente impiegato per le applicazioni con regimi di rotazione lenti o moderati. Per le applicazioni con albero orizzontale, il livello dell'olio deve poter essere controllato e deve essere approssimativamente mantenuto al centro del corpo volvente più basso, quando il cuscinetto è fermo. Per gli alberi ad asse verticale e rotanti a basso regime il livello dell'olio deve essere mantenuto in modo tale da poter sommergere dal 50% al 80% del cuscinetto.

Miscibility of Greases

When mixed different types of grease their resulting consistency can vary (normally becomes softer), the maximum temperature of use decreases and manifest other variations of the characteristics. Generally should never be mixed with fat base oils and fats with different thickeners of different types. In addition, you should not mix greases of different manufacturers because of the diversity of additives. However in case you should mix different fatty acids is necessary to choose at least with the same type of base oil and the same thickener.

Quantity of grease

The amount of fat to be used in each specific situation depends on many factors, related with the size and shape of the housing, any limitations of space, speed of rotation of the bearing and type of fat used. As a general rule, the bearings should be filled with a quantity of fat from 30 to 40% of their capacity, while the housing should be filled with a quantity ranging from 30 to 60%. Where engine speeds are high and the temperature increase should be kept to a minimum should be used in a reduced quantity of fat. An excessive amount of fat causes the temperature to rise which in some cases may cause a reduction of the consistency by venting the fat.

Filling

Since the properties of the fat decay with the passage of time it is necessary to provide lubrication at intervals determined which depend on the type of bearing, by its size, from the rotation speed, the temperature and the type of fat. With increasing operating temperature re-lubrication intervals must be shortened accordingly. Normally for each 10 °C increase in bearing temperature over 80 °C, the relubrication intervals are reduced by about 50%.

Lubrication oil

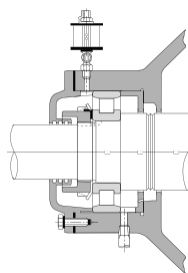
The lubrication oil is suitable for applications which require that the heat generated by the bearing or the one that flows into the bearing from other sources is removed from the latter and dissipated outside.

Lubrication Oil bath

The oil bath lubrication is the most common system and is extensively used for applications with slow or moderate speeds. For applications with horizontal shaft, the oil level must be controlled and must be maintained approximately at the center of the rolling body lower, when the bearing is stationary. For trees with a vertical axis and rotating at low speed the oil level must be maintained in such a way as to submerge from 50% to 80% of the bearing.

Lubrificazione a goccia

Drip Feed Lubrication

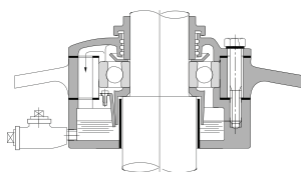


Nella lubrificazione a goccia l'olio si trova in un serbatoio sopra al cuscinetto e viene fatto colare nell'alloggiamento dove viene vaporizzato quando entra in contatto con i corpi volventi, o in un'altra versione della stessa tipologia di lubrificazione permette di passare attraverso il cuscinetto solo una piccola parte di olio. tale metodo viene usato per i regimi di rotazione relativamente elevati, in applicazioni con carichi da moderati a leggeri. Nella maggior parte dei casi il sistema è regolabile e la lubrificazione è costituita da poche gocce al minuto.

In lubrication, the oil drop is located in a reservoir above the bearing and is poured into the slot where it is vaporized when it comes in contact with the rolling elements, or in another version of the same type of lubrication allows to pass through the bearing only a small part of oil. this method is used for relatively high speeds, loads in applications with moderate to light. In most cases the system is adjustable and the lubrication is made from a few drops per minute.

Lubrificazione a spruzzo d'olio

Lubrication oil Spray

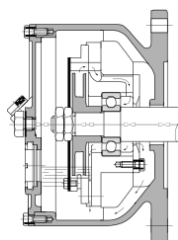


Con la lubrificazione a spruzzo una girante o un dispositivo simile montato sull'albero pesca l'olio e lo spruzza nel cuscinetto. tale metodo può essere usato anche a regimi di rotazione molto elevati.

With the spray lubrication an impeller or a similar device mounted on fishing the oil and splashes into the bearing. this method can also be used to very high speeds.

Lubrificazione a disco

Lubrication disc

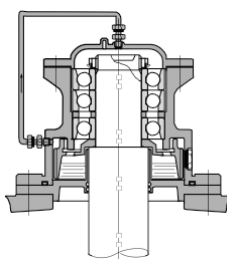


Questo metodo consiste in un disco parzialmente immerso nell'olio che ruotando centrifuga l'olio in un vano dal quale scende nel cuscinetto lubrificandolo.

This method consists in a disc partially immersed in the oil that rotating centrifuge the oil in a compartment from which it descends into the bearing lubricating it.

Lubrificazione a circolazione d'olio

Lubrication oil circulation

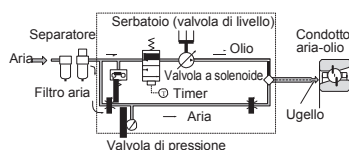


La lubrificazione a circolazione d'olio viene utilizzata nelle applicazioni dove sia necessario il raffreddamento del cuscinetto o quando sia richiesto un sistema di alimentazione automatica e centralizzata dell'olio. Uno dei vantaggi della circolazione è rappresentato dal fatto che il gruppo di raffreddamento ed il filtro per il mantenimento della pulizia dell'olio integrati nel sistema. Per poter garantire una efficace lubrificazione del cuscinetto si deve curare che i fori d'ingresso dell'olio siano situati dal lato opposto a quelli d'uscita.

The lubrication oil circulation is used in applications where it is necessary to cool the bearing is required or when a centralized, automated system Power supply from the oil. One of the advantages of the circulation is represented by the fact that the cooling unit and the filter for maintaining the cleanliness of the oil in the integrated system. In order to ensure effective lubrication of the bearing is required to ensure that the oil entry holes are located on the opposite side to those output.

Lubrificazione aria-olio

Air-oil Lubrication



Con questo metodo viene stabilito il quantitativo minimo di lubrificante necessario che viene poi inviato a ciascun cuscinetto mediante aria compressa. Poiché al cuscinetto viene fornito costantemente olio fresco e grazie all'effetto refrigerante dell'aria compressa viene spesso utilizzato in applicazione ove sia necessario abbattere la temperatura d'esercizio del cuscinetto.

Scelta degli oli lubrificanti

In condizioni di normale funzionamento l'olio per mandrini, l'olio per macchine, ed altri oli minerali vengono ampiamente impiegati per la lubrificazione dei cuscinetti volventi. Comunque per temperature superiori a 150° C o inferiori a -30° C vengono impiegati oli sintetici a base di diestere, silicone o fluorocarburi. Una delle proprietà più importanti degli oli che determina la loro efficienza lubrificante è la viscosità. Se la viscosità è troppo bassa la formazione del film lubrificante sarà insufficiente con possibili conseguenti danni alle superfici del cuscinetto. Se la viscosità è troppo elevata la resistenza del mezzo lubrificante sarà altrettanto elevata con il risultato di generare un'aumento della temperatura e delle perdite per attrito. In generale per applicazioni con maggiori regimi di rotazione dovrebbe essere usato un'olio con viscosità inferiore, mentre per applicazioni con carichi elevati dovrebbe essere usato un'olio con viscosità maggiore. Gli intervalli entro i quali l'olio lubrificante deve essere sostituito dipendono dalle condizioni operative, dalla quantità dell'olio e dal tipo di olio utilizzato. Normalmente per la lubrificazione a bagno d'olio dove la temperatura di funzionamento è di 50°C o inferiore, l'olio deve essere sostituito una volta all'anno. Quando la temperatura di funzionamento varia tra 80°C e 100°C, l'olio deve essere sostituito almeno ogni 3 mesi. E' consigliabile controllare regolarmente l'efficienza della lubrificazione e il decadimento della purezza dell'olio al fine di poter determinare quando sia necessaria la sostituzione.

Tenute

I dispositivi esterni di tenuta dei cuscinetti hanno due funzioni, prevenire la fuoriuscita del lubrificante e prevenire l'ingresso nel cuscinetto di polvere, acqua ed altri inquinanti. Quando si deve scegliere una tenuta si deve sempre tenere presente il tipo di lubrificante (olio o grasso), la velocità periferica della tenuta, gli errori di montaggio dell'albero, le limitazioni di spazio, l'attrito della tenuta ed il conseguente sviluppo di calore. I dispositivi di tenuta per i cuscinetti volventi si dividono in due tipi principali: le tenute non a contatto e quelle a contatto.

Tenute non a contatto

Le tenute di questo tipo svolgono il loro compito grazie alla luce stretta esistente tra l'albero ed il coperchio dell'alloggiamento. Le tenute non a contatto hanno un'attrito insignificante e quindi sono adatte alle applicazioni con elevati regimi di rotazione.

Tenute a contatto

Le tenute a contatto svolgono il loro compito per mezzo della pressione esercitata dalla parte resiliente della tenuta (labbro) che spesso è realizzato in gomma sintetica contro la superficie da proteggere. Le tenute a contatto hanno generalmente un'azione di protezione molto più valida di quelle non a contatto, nonostante il momento di attrito ed il loro coefficiente di aumento della temperatura siano più elevati.

Materiale dei Cuscinetti

Gli anelli ed i corpi volventi del cuscinetto devono poter mantenere una elevata precisione dimensionale e di rotazione mentre le loro superfici sono soggette a sollecitazioni elevate e continue. Per poter soddisfare questa esigenza gli anelli e i corpi volventi devono essere

With this method is established, the minimum quantity of lubricant needed which is then sent to each bearing by compressed air. Since the bearing is supplied constantly fresh oil and coolant due to the effect of the compressed air is often used in application where it is necessary to break down the operating temperature of the bearing.

Choice of lubricating oils

In normal operation, the spindle oil, machine oil, and other mineral oils are widely used for the lubrication of rolling bearings. However, for temperatures above 150° C or below -30° C are used oils based synthetic diester, silicone or fluorocarbons. Properties to one of the most important of the oils that determines their efficiency is the lubricant viscosity. If the viscosity is too low, the formation of the lubricating film will be insufficient with possible consequential damage to the bearing surfaces. If the viscosity is too high, the resistance of the lubricant will be just as high with the result of generating the temperature to rise and friction losses. In general, for applications with more rotation speeds should be used an oil with lower viscosity, while for high load applications should be used an oil with a viscosity greater.

The ranges within which the lubricating oil must be replaced depends on the operating conditions, the amount of oil and type of oil used. Normally for the lubrication oil bath where the operating temperature is 50° C or lower, the oil should be changed once a year. When the temperature varies between 80° C and 100° C, the oil must be replaced at least every 3 months. Is advisable controller regularly the efficiency of the lubrication and the decay of the purity of the oil in order to determine when replacement is required.

Seals

External devices sealing the bearings have two functions, to prevent the leakage of the lubricant in the bearing and prevent the ingress of dust, water and other pollutants. When choosing an estate you should always keep in mind the type of lubricant (oil or grease), the peripheral speed of the estate, the errors shaft mounting, space limitations, the friction of the estate and the consequent development of heat. Sealing devices for rolling bearings are divided into two main types: the seals are not in contact and those in contact.

Not-contact seals

The seals of this type do their job thanks to the light tight between the shaft and the housing cover. The seals do not have to contact a 'friction insignificant and therefore, are suitable for applications with high rotation.

Contact Seals

The contact seals perform their task by means of the pressure exerted by the resilient part of the seal (lip) which is often made of rubber sintetic against the surface to be protected. The contact seals generally have a 'protection action much more valid than those not in contact, despite the moment of friction and their coefficient of temperature increase are higher.

Bearings Material

The rings and rolling elements of the bearing must be able to maintain a high dimensional accuracy and rotation while their surfaces are subject to high stress and continuous. To meet this need the rings and rolling elements must be constructed with a material that has a 'high hardness, resists rolling fatigue, which is resistant to' wear and that has good dimensional stability. The most common cause of fatigue failure of the bearings is the inclusion in the 'steel non-metallic impurities. For this K.S.B. always adopted the use of pure materials, meaning that they have a limited content of non-metallic impurities, is thus increased the fatigue life of the parts and of the rolling bearing.

costruiti con un materiale che abbia un'elevata durezza, che resista alla fatica del movimento volvente, che sia resistente all'usura e che abbia una buona stabilità dimensionale. La causa più comune di rottura per fatica dei cuscinetti è l'inclusione nell'acciaio di impurità non metalliche. Per questo K.S.B. adotta da sempre l'uso di materiali puri ovvero che hanno un limitato contenuto di impurità non metalliche, viene così aumentata la durata a fatica delle parti volventi e del cuscinetto.

Per tutti i cuscinetti K.S.B. viene impiegato acciaio con basso contenuto di ossigeno e di impurità non metalliche che viene poi degassato sotto vuoto. Per i cuscinetti ai quali è richiesta un'elevata affidabilità ed una lunga durata vengono utilizzati degli acciai di purezza ancora maggiore a scoria controllata.

Acciai a medio/elevato tenore di carbonio

Normalmente per gli anelli e per i corpi volventi dei cuscinetti vengono usate delle varietà di acciai che non solo possono essere temprati superficialmente, ma che possono anche essere temprati in profondità. Tra tutti gli acciai il più usato è il cosiddetto acciaio per cuscinetti ovvero l'acciaio al cromo con elevato tenore di carbonio. Per cuscinetti di grandi dimensioni e per quelli aventi una sezione trasversale di dimensioni rilevanti, viene impiegato dell'acciaio per cuscinetti contenente manganese e molibdeno, temprato ad induzione. Talvolta viene anche usato l'acciaio al cromo con tenore medio di carbonio legato con silicio e manganese che ha una temprabilità comparabile a quella dell'acciaio ad elevato tenore di carbonio. La composizione chimica dell'acciaio per cuscinetti meglio conosciuto come DIN 100 Cr6 (Germania) è corrispondente a quella dell'AISI 52100 (U.S.) o del SUJ2 (Giappone).

Acciai da cementazione

Grazie alla combinazione di una superficie dura, cementata e temprata ad una profondità appropriata e con un cuore relativamente dolce, l'acciaio da cementazione ha una eccellente resistenza ai carichi ad urto. K.S.B. impiega questi acciai per quasi tutti i cuscinetti a rulli conici. K.S.B. impiega questi acciai anche per altri tipi di cuscinetti e precisamente: gli acciai al cromo e quelli al cromo molibdeno per cuscinetti con dimensioni da piccole a medie e acciai al nickel cromo molibdeno per cuscinetti di elevate dimensioni.

Acciai per tempra ad induzione

Per il trattamento termico degli anelli, accanto alla cementazione viene anche usata la tempra ad induzione e, a tale scopo, viene usato un'acciaio a medio tenore di carbonio le cui caratteristiche costituiscono un'alternativa all'acciaio a tutta tempra. Per la tempra ad induzione dove sono richiesti degli strati induriti di profondità rilevante come richiedono i cuscinetti di grandi dimensioni e quelli con superfici molto estese, l'acciaio a medio tenore di carbonio è addizionato con cromo e molibdeno.

Acciai resistenti al calore

Quando dei cuscinetti costruiti con il normale acciaio al cromo e con alto tenore di carbonio vengono impiegati per lunghi periodi con temperature superiori a 120°C si possono manifestare delle elevate modifiche dimensionali. Per questo motivo è ideato un'apposito trattamento di stabilizzazione dimensionale che è destinato ai cuscinetti funzionanti a temperature molto elevate. Per i normali cuscinetti per alte temperature impiegati da 150°C a 200°C l'aggiunta di silicio all'acciaio aumenta la resistenza al calore ed il cuscinetto che ne risulta ha una eccellente durata alla fatica, una minima variazione dimensionale ed una limitata perdita della durezza alle elevate temperature. Nella produzione di questi cuscinetti K.S.B. impiega una varietà di acciai resistenti al calore, due di questi acciai sono gli acciai al molibdeno ad alta velocità e l'acciaio al tungsteno ad alta velocità. Per cuscinetti che richiedono una resistenza al calore in applicazioni ad elevato numero di giri vi è anche un'acciaio da cementazione al molibdeno resistente al calore.

For all bearings K.S.B. steel is used with a low content of oxygen and non-metallic impurities which is then degassed under vacuum. For bearings requiring especially high reliability and long life are used steels of even greater purity controlled waste.

Steels medium / high carbon

Normally for the rings and the rolling elements of the bearings are used of the variety of steels that not only can be hardened superficially, but which can also be hardened in depth. Among all the steels, the most widely used is the so-called bearing steel or the 'chrome steel with a high carbon content. For large bearings and for those having a cross section of relevant dimensions, is used dell 'bearing steel containing manganese and molybdenum, induction hardened. It is sometimes also used the 'chrome steel with a medium carbon alloyed with silicon and manganese which has a hardening properties comparable to that of ' steel with high carbon content. The chemical composition of the 'bearing steel better know as DIN 100 Cr6 (Germany) is equivalent to that of ' AISI 52100 (U.S.) or SUJ2 (Japan).

Hardening steels

Thanks to the combination of a hard surface, hardened and tempered to an appropriate depth and with a relatively gentle heart, the 'hardening steel has excellent resistance to shock loads. K.S.B. employs these steels for almost all tapered roller bearings. K.S.B. employs these steels also for other types of bearings, namely: chromium steels and those chrome molybdenum for bearings with size from small to medium and nickel chromium molybdenum steel for bearings of large size.

Steels for induction hardening

For the heat treatment of the rings, next to the cementation is also used the induction hardening and, for this purpose, is used a 'medium carbon steel whose characteristics are an' alternative to 'through hardened steel. For the induction hardening are required where the hardened layers of considerable depth as required by the large bearings and those with very large surfaces, the 'medium-carbon steel is supplemented with chromium and molybdenum.

Heat-resistant steels

When the bearings constructed with the normal chrome steel with high carbon content are used for long periods at temperatures above 120 °C may occur from the high dimensional changes . For this reason it is devised a ' special treatment of dimensional stabilization that is intended for the bearings operating at very high temperatures . For normal bearings for high temperatures employed from 150 °C to 200 °C l' addition of silicon steel improves the heat resistance and the bearing that results has an excellent fatigue life , a minimum dimensional change and a limited loss the hardness at high temperatures. In the production of these bearings K.S.B. employs a variety of heat-resistant steels , two of these steels are steels molybdenum high-speed and the ' high-speed tungsten steel . For bearings that require a heat resistance in applications with a high number of revolutions , there is also a ' hardening steel molybdenum heat resistant.

Bearing steels resistant to corrosion

For applications that require a high resistance to corrosion is used stainless steel. In order to obtain such corrosion resistance to 'martensitic stainless steel is added a high dose of a' alloying element chromium.

Material of cages

The material of the bearing cages must have the strength to withstand the rotational vibrations and shock loads . These materials must have a low coefficient of ' friction , must be light and must be able to withstand operating temperatures of the bearings. For small and medium size bearings are used cages made of pressed steel , cold-rolled steel with a low carbon content (about 0.1 %). However, depending on the applications is also used austenitic stainless steel . For large bearings are widely used in the cages carbon steel or cast brass high strength obtained by mechanical working. Units are also available in cages aluminum alloys and other materials. The cages injected plastic are not of wide use , many of these are made of heat-resistant polyamide resin , reinforced with glass fiber.

Acciai per cuscinetti resistenti alla corrosione

Per le applicazioni che richiedono una elevata resistenza alla corrosione viene impiegato acciaio inossidabile. Per poter ottenere tale resistenza alla corrosione all'acciaio inossidabile martensitico viene aggiunta una elevata dose di un elemento legante di cromo.

Materiale delle gabbie

Il materiale delle gabbie dei cuscinetti deve avere la resistenza per poter sopportare le vibrazioni conseguenti alla rotazione ed i carichi ad urto. Questi materiali devono avere un basso coefficiente d'attrito, devono essere leggeri e devono poter sopportare le temperature operative dei cuscinetti. Per i cuscinetti di piccole e medie dimensioni vengono impiegate delle gabbie in lamiera stampata in acciaio laminato a freddo con un basso tenore di carbonio (circa 0,1%). Comunque a seconda delle applicazioni viene anche utilizzato acciaio inossidabile austenitico. Per i cuscinetti di grandi dimensioni vengono ampiamente usate delle gabbie in acciaio al carbonio o in ottone fuso ad elevata resistenza ottenute da lavorazione meccanica. Sono comunque disponibili anche gabbie in leghe di alluminio e di altri materiali. Le gabbie iniettate in plastica non sono di ampio uso, molte di queste sono realizzate in resina poliammide resistente al calore, rinforzata in fibra di vetro. Le gabbie in plastica sono leggere, resistenti alla corrosione ed hanno eccellenti caratteristiche di smorzamento e di attrito limitato. Le resine in poliammide resistenti al calore permettono la produzione di gabbie che funzionano bene tra -40°C e +120°C. Tuttavia l'impiego di tali gabbie non è consigliato per temperature superiori a 120°C.

The plastic cages are lightweight, resistant to corrosion and have excellent damping characteristics and limited friction. The polyamide resins in heat resistant allow the production of cages that work well between -40 °C and +120 °C. However the use of such cages is not recommended for temperatures above 120 °C.



Cuscinetti a Sfere
Ball Bearings

Dimensioni d'ingombro

Le dimensioni d'ingombro ad eccezione della versione con corona di sfere separabili (tipo E) corrispondono alla norma ISO 15.

Anello elastico e dimensioni delle scanalature sono conformi alla norma ISO 464.

Designazione

La designazione standard dei cuscinetti e le modifiche comuni sono Z, RS, 2Z, 2RS, N.

Cuscinetti schermati o sigillati

I cuscinetti radiali a sfere a una corona con schermi di protezione su uno o due lati sono prodotti con scudi in metallo (Z, 2Z, ZR, 2ZR)

Boundary Dimensions

Boundary dimensions except for separable single row ball bearings (type E) correspond to the standard ISO 15.

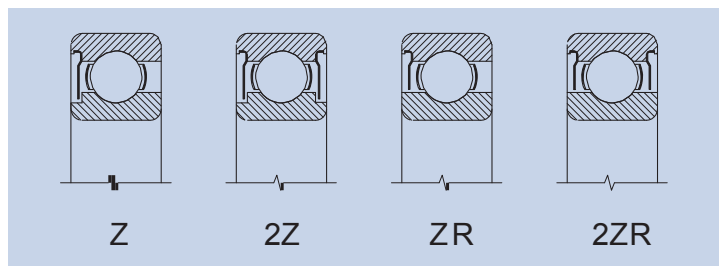
Snap ring groove dimensions comply with the standard ISO 464.

Designation

Bearings designation standard and common modifications are Z, RS, 2Z, 2RS, N.

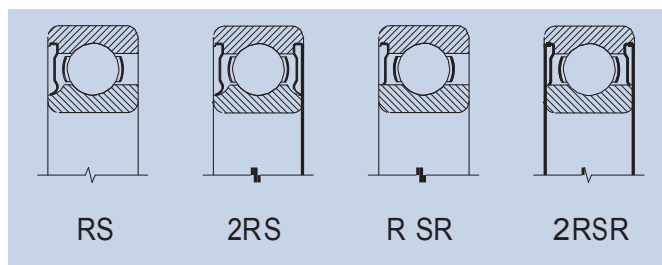
Shielded or Sealed Bearings

Single row deep groove ball bearings with shield on one or both sides are produced with metal (Z, 2Z, ZR, 2ZR)



o guarnizioni (RS, 2RS, RSR, 2RSR) come elementi indissociabili.

or seals (RS, 2RS, RSR, 2RSR) as non-separable units.



Gli scudi creano una tenuta senza contatto. Gli anelli di tenuta sono in gomma, vulcanizzata su un'anello di rinforzo in metallo e agiscono nel cuscinetto come un efficace tipo di sigillamento.

I cuscinetti con guarnizioni su entrambi i lati sono pieni di grasso lubrificante che assicura condizioni di affidabilità per tutta la durata dei cuscinetti. Questi cuscinetti sono adatti per campi di temperatura da -30°C a + 110°C. Cuscinetti speciali con altro tipo di grasso devono sempre essere concordati in anticipo.

Cuscinetti con Anello elastico di bloccaggio

Per la semplice protezione contro lo spostamento assiale nell'alloggiamento i cuscinetti possono essere forniti con la scanalatura sull'anello esterno (N).

Quando il cuscinetto è fornito con anche l'anello elastico inserito è designato (NR).

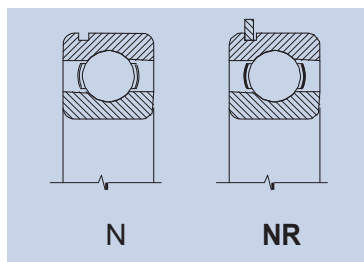
The shields create a non-contact sealing. Sealing rings are made of rubber, vulcanized on a metal reinforcing ring and act in the bearing as an effective friction type sealing.

Bearings with sealings on both sides are filled with grease which assures reliable lubricating conditions for the whole bearing life. These bearings are suitable for temperature ranges of -30°C to + 110°C. Special bearings with another grease type must be agreed in advance.

Bearings with Snap Ring Groove

For simple securing against axial displacement in the housing single row ball bearings with on outer ring are manufactured (N).

When the bearing is delivered with inserted snap ring it is designated (NR).



I cuscinetti con una scanalatura per l'anello elastico possono essere forniti con le guarnizioni montate.

Tolleranza

I cuscinetti a sfere sono prodotti in normale classe di tolleranza P0, questo simbolo non è indicato. I valori di precisione dimensione e

Bearings with a snap ring groove can also be delivered with assembled seals.

Tolerance

Ball bearings are produced in normal tolerance class P0, this symbol is not indicated. Values for dimension and operation accuracy comply

funzionamento sono conformi alla norma ISO 199 e ISO 492.

Gioco Radiale

I cuscinetti a sfere consegnati senza designazione del gioco radiale sono prodotti secondo il normale gioco radiale e conformi alla norma ISO 5753.

Livello di Vibrazione

I cuscinetti comunemente prodotti hanno un livello di vibrazione normale, cuscinetti in classe di tolleranza P5 e superiori hanno il livello C6 di vibrazione. Per i cuscinetti con livelli di vibrazione speciali C6, C06 e C66 si deve fare specifica richiesta prima della produzione.

Disallineamento

Per i cuscinetti a sfere solo un piccolo disallineamento reciproco degli anelli è ammissibile, quindi la deviazione di allineamento delle superfici di appoggio può essere molto piccola. Il disallineamento provoca carico aggiuntivo del cuscinetto e quindi la sua vita viene accorciata.

Appellativi supplementari

I suffissi nell'appellativo utilizzati per identificare alcune caratteristiche dei cuscinetti radiali a sfere sono i seguenti:

- **CN** - Gioco interno radiale normale solitamente utilizzato insieme ad un'altra lettera che identifica un intervallo di gioco o spostato.
- **C2** - Gioco radiale interno inferiore a normale
- **C3** - Gioco radiale interno superiore a normale
- **C4** - Gioco radiale interno maggiore di C3
- **C5** - Gioco radiale interno maggiore di C4
- **DB** - Due cuscinetti radiali ad una corona di sfere appaiati con disposizione ad "0"
- **DF** - Due cuscinetti radiali ad una corona di sfere appaiati con disposizione ad "X"
- **DT** - Due cuscinetti radiali ad una corona di sfere con disposizione in tandem
- **E** - Gruppo sfere rinforzato
- **J** - Gabbia stampata in acciaio, centrata sulle sfere
- **HT** - Grasso con addensante alla poliurea ci consistenza NLGI 2 per intervallo di temperatura da -40°C a +150°C
- **LTH23** - Grasso con addensante al litio di consistenza NLGI 2 per intervallo di temperatura da -50°C a +140°C.
- **LT** - Grasso con addensante al litio di consistenza NLGI 2 per intervallo di temperatura da -55°C a +110°C.
- **MT33** - Grasso con addensante al litio di consistenza NLGI 3 per intervallo di temperatura da -30°C a +120°C
- **M** - Gabbia massiccia in ottone centrata sulle sfere
- **MA** - Gabbia massiccia in ottone centrata sull'anello esterno
- **MB** - Gabbia massiccia in ottone centrata sull'anello interno
- **N** - Scanalatura per anello elastico sull'anello esterno
- **NR** - Scanalatura per anello elastico sull'anello esterno, con corrispondente anello elastico.
- **N1** - Un intaglio (tacca) di arresto sulla facciata dell'anello esterno.
- **P5** - Precisione di tolleranza e di rotazione secondo la classe di tolleranza 6 della norma ISO 199 e ISO 492
- **P6** - Precisione di tolleranza e di rotazione secondo la classe di tolleranza 6 della norma ISO 199 e ISO 492
- **P52** - P5 + C2
- **P62** - P6 + C2
- **P63** - P6 + C3
- **RS1** - Guarnizione strisciante in gomma acrilonitributadiene (NBR) con rinforzo in lamiera stampata montata su un lato del cuscinetto
- **2RS1** - Guarnizione strisciante RS1 montata su entrambi i lati del cuscinetto
- **RSH** - Guarnizione strisciante in gomma acrilonitributadiene (NBR) con rinforzo in lamiera stampata montata su un lato del cuscinetto.
- **2RSH** - Guarnizione strisciante RSH montata su entrambi i lati del cuscinetto.
- **RSL** - Guarnizione strisciante a basso attrito in gomma acrilonitributadiene (NBR) con rinforzo in lamiera stampata montata su un lato del cuscinetto.

with the standard ISO 199 and ISO 492.

Radial Clearance

Ball bearings delivered without radial clearance designation are produced with normal radial clearance value comply with the standard ISO 5753.

Vibration Level

Commonly manufactured ball bearings have a normal vibration level, bearings in tolerance class P5 and higher have the vibration level C6. For special arrangements bearings with reduced vibration level C6, C06 and C66 is necessary to ask before the production.

Misalignment

For the ball bearings only small mutual misalignment of bearing rings is permissible, therefore alignment deviation of seating surface can be very small. Misalignment causes additional loading of the bearing and thus its life is shortened.

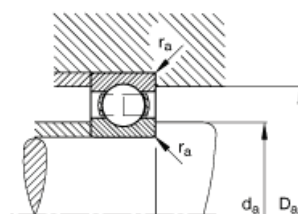
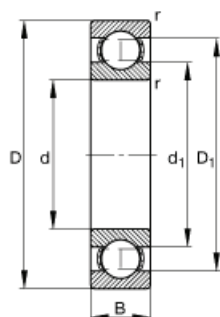
Supplementary designations

The suffixes in the 'name used to identify some characteristics of deep groove ball bearings are the following:

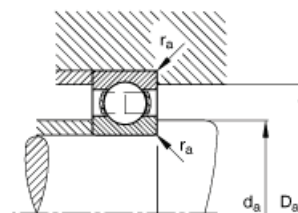
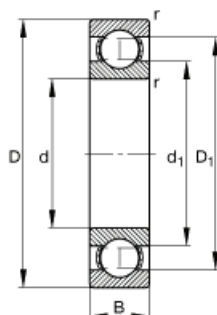
- **CN** - Radial clearance normal usually used together with 'other letter that identifies an interval of clearance or moved.
- **C2** - Radial internal clearance less than normal
- **C3** - Radial internal clearance greater than normal
- **C4** - Radial internal clearance greater than C3
- **C5** - Radial internal clearance greater than C4
- **DB** - Two single row deep groove ball bearing arrangement paired with "0"
- **DF** - Two single row deep groove ball bearing arrangement paired with an "X"
- **DT** - Two single row deep groove ball bearings arranged in tandem
- **E** - Group spheres reinforced
- **J** - Pressed steel cage, ball centered
- **HT** - Grease thickener with the poilurea NLGI 2 for temperature range of -40 °C to +150 °C
- **LTH23** - lithium thickened grease with NLGI 2 for temperature range of -50 °C to +140 °C.
- **LT** - lithium thickened grease with NLGI 2 for temperature range of -55 °C to +110 °C.
- **MT33** - lithium thickened grease with NLGI 3 for temperature range of -30 °C to +120 °C
- **M** - brass cage centered on the balls
- **MA** - brass cage centered on the 'outer ring
- **MB** - brass cage centered on the 'inner ring
- **N** - groove for snap ring on the 'outer ring
- **NR** - Snap Ring Groove on 'outer ring, with a corresponding ring.
- **N1** - A notched (notch) stop on the facade of 'outer ring.
- **P5** - Accuracy of tolerance and rotation according to the tolerance class 6 of ISO 199 and ISO 492
- **P6** - Accuracy of tolerance and rotation according to the tolerance class 6 of ISO 199 and ISO 492
- **P52** - P5 + C2
- **P62** - P6 + C2
- **P63** - P6 + C3
- **RS1** - Gasket creeping acrilonitributadiene rubber (NBR) with pressed sheet steel reinforcement mounted on a side of the bearing
- **2RS1** - Gasket creeping RS1 mounted on both sides of the bearing
- **RSH** - Gasket creeping acrilonitributadiene rubber (NBR) with pressed sheet steel reinforcement mounted on a side of the bearing.
- **2RSH** - Gasket creeping RSH mounted on both sides of the bearing.
- **RSL** - Gasket creeping low friction acrilonitributadiene rubber (NBR) with pressed sheet steel reinforcement mounted on a side of the bearing.

- **2RSL** - Guarnizione strisciante RSL a basso attrito montata su entrambi i lati del cuscinetto.
- **RZ** - Guarnizione a basso attrito in gomma acrilonitributadiene (NBR) con rinforzo in lamiera stampata montata su un lato del cuscinetto.
- **2RZ** - Guarnizione a basso attrito RZ montata su entrambi i lati del cuscinetto.
- **Z** - Schermo in lamiera stampata montato su un lato del cuscinetto.
- **2Z** - Schermo Z montato su entrambi i lati del cuscinetto.
- **ZNR** - Schermo in lamiera stampata su un lato del cuscinetto e scanalatura per anello elastico sull'anello esterno con corrispondente anello elastico montato sul lato opposto dello schermo.
- **2ZNR** - Schermo Z su entrambi i lati del cuscinetto e scanalatura per anello elastico sull'anello esterno con corrispondente anello elastico.
- **TH** - Gabbia massiccia in tela rinforzata con resina fenolica del tipo a scatto centrata sulle sfere.
- **TN** - Gabbia stampata ad iniezione in poliammide del tipo a scatto centrata sulle sfere.
- **TNH** - Gabbia stampata ad iniezione in polietereeterchetone (PEEK) rinforzata con fibra di vetro del tipo a scatto centrata sulle sfere.
- **TN9** - Gabbia stampata ad iniezione in poliammide 6,6 rinforzata con fibre di vetro, del tipo a scatto centrata sulle sfere.
- **Y** - Gabbia stampata in ottone centrata sulle sfere.

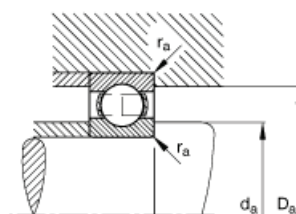
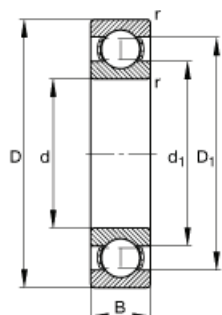
- **2RSL** - Gasket creeping RSL low friction mounted on both sides of the bearing.
- **RZ** - Gasket low friction acrilonitributadiene rubber (NBR) with pressed sheet steel reinforcement mounted on a side of the bearing.
- **2RZ** - Gasket low friction RZ mounted on both sides of the bearing.
- **Z** - Screen stamped sheet metal mounted on one side of the bearing.
- **2Z** - Z Screen mounted on both sides of the bearing.
- **ZNR** - Screen sheet stamped on one side of the bearing and snap ring groove on 'ring esterno with corresponding elastic ring mounted on the opposite side of the screen.
- **2ZNR** - Screen Z on both sides of the bearing and snap ring groove on 'outer ring with the corresponding elastic ring.
- **TH** - cage fabric reinforced phenolic resin push type ball centered.
- **TN** - Injection molded cage of polyamide push type ball centered.
- **TNH** - Injection molded cage in polyetheretherketone (PEEK) reinforced with glass fiber of the snap type centered on the balls.
- **TN9** - Injection molded cage of polyamide 6.6 reinforced with glass fibers, push type ball centered.
- **Y** - Pressed brass cage centered on the balls.



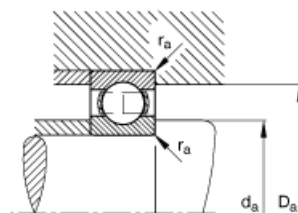
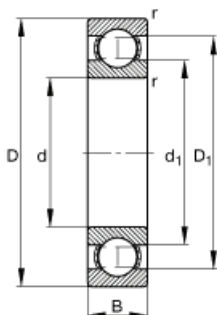
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
619/2	2	6	2.3	0.10			0.279	0.090	0.004	63000	79000	2	3.2	4.8	0.1	0.0004
623	3	10	4.0	0.15	5.2	7.5	0.645	0.229	0.010	40000	50000	3	4.2	8.5	0.1	0.0015
624	4	13	5.0	0.20	6.7	10.3	1.168	0.412	0.019	38000	45000	4	5.6	11.2	0.2	0.0032
634	4	16	5.0	0.30	8.4	12.0	1.875	0.677	0.031	35000	42000	4	6.2	13.4	0.3	0.0050
618/4	4	9	2.5	0.10	5.2	7.5	0.540	0.180	0.007	65000	85000	4	4.6	8.4	0.1	0.0007
619/4	4	11	4.0	0.15	5.9	9.0	0.715	0.232	0.010	63000	80000	4	4.8	10.2	0.1	0.0017
604	4	12	4.0	0.20	6.1	9.0	0.806	0.280	0.012	60000	75000	4	5.4	10.6	0.2	0.0021
618/5	5	11	3.0	0.15	6.8	9.3	0.637	0.255	0.011	75000	120000	5	5.8	10.2	0.1	0.0012
619/5	5	13	4.0	0.20	7.6	10.8	1.079	0.432	0.020	47000	56000	5	6.6	11.5	0.2	0.0025
625	5	16	5.0	0.30	8.4	12.0	1.875	0.677	0.031	35000	42000	5	7.0	14.0	0.3	0.0047
635	5	19	6.0	0.30	10.7	15.3	2.838	1.078	0.049	35000	42000	5	7.2	15.8	0.3	0.0090
618/6	6	13	3.5	0.15	7.9	11.2	0.884	0.345	0.015	67000	110000	6	6.8	12.2	0.1	0.0020
619/6	6	15	5.0	0.20	8.6	12.4	1.470	0.599	0.027	42000	50000	6	7.8	13.0	0.2	0.0040
626	6	19	6.0	0.30	11.1	15.2	2.838	1.078	0.049	35000	42000	6	8.2	17.0	0.3	0.0080
618/7	7	14	3.5	0.15	8.9	12.2	0.956	0.400	0.017	63000	100000	7	7.8	13.2	0.1	0.0022
619/7	7	17	5.0	0.30	9.8	14.2	1.480	0.560	0.024	56000	90000	7	9.0	15.0	0.3	0.0049
607	7	19	6.0	0.30	11.1	15.2	2.838	1.078	0.049	35000	42000	7	9.0	17.2	0.3	0.0090
627	7	22	7.0	0.30	12.2	17.6	3.282	1.356	0.062	35000	42000	7	9.2	19.0	0.3	0.0123
618/8	8	16	4.0	0.20	10.1	14.00	1.330	0.570	0.024	56000	90000	8	9.4	14.6	0.2	0.0030
619/8	8	19	6.0	0.30	11.1	16.1	1.900	0.735	0.031	50000	80000	8	10.0	17.0	0.3	0.0071
608	8	22	7.0	0.30	12.1	17.6	3.282	1.356	0.062	35000	42000	8	10.0	20.0	0.3	0.0150
628	8	24	8.0	0.30	14.5	19.8	3.900	1.660	0.071	40000	63000	8	10.4	21.6	0.3	0.0170
618/9	9	17	4.0	0.20	11.1	15.0	1.430	0.640	0.027	53000	85000	9	10.4	15.6	0.2	0.0034
619/9	9	20	6.0	0.30	12.0	17.0	2.080	0.865	0.036	48000	80000	9	11.0	18.0	0.3	0.0076
609	9	24	7.0	0.30	14.4	19.8	3.668	1.640	0.075	35000	42000	9	11.0	22.0	0.3	0.0180
629	9	26	8.0	0.30	14.8	21.2	4.557	1.955	0.089	35000	42000	9	11.0	24.0	0.3	0.0200
61800	10	19	5.0	0.30	12.6	16.4	1.380	0.585	0.025	48000	80000	10	12.0	17.0	0.3	0.0055
61900	10	22	6.0	0.3	13.0	18.1	2.080	0.850	0.036	45000	75000	10	12.0	20.0	0.3	0.0100
6000	10	26	8.0	0.30	14.8	21.2	4.557	1.955	0.089	28000	33000	10	12.0	24.0	0.3	0.0190



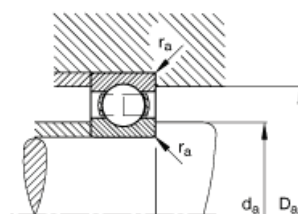
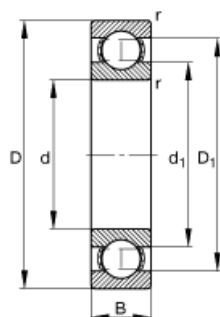
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
16100	10	28	8.0	0.60	16.7	23.4	4.620	1.960	0.083	40000	63000	10	14.2	23.8	0.3	0.0220
6200	10	30	9.0	0.60	17.0	23.2	6.047	2.510	0.114	25000	30000	10	14.0	26.0	0.6	0.0310
62200	10	30	14.0	0.60	17.0	24.8	6.047	2.510	0.114	25000	30000	10	14.0	26.0	0.6	0.0400
6300	10	35	11.0	0.60	17.5	26.9	8.072	3.430	0.156	22000	27000	10	14.0	31.0	0.6	0.0540
61801	12	21	5.0	0.30	15.0	18.2	1.430	0.670	0.028	43000	70000	12	14.0	19.0	0.3	0.0063
61901	12	24	6.0	0.3	15.5	20.6	2.250	0.980	0.043	40000	67000	12	14.0	22.0	0.3	0.0110
16101	12	30	8.0	0.30	16.7	23.4	5.094	2.360	0.107	34000	56000	12	14.4	27.4	0.3	0.0230
6001	12	28	8.0	0.30	17.0	23.2	5.094	2.360	0.107	25000	30000	12	14.0	26.0	0.3	0.0220
6201	12	32	10.0	0.60	18.5	25.7	6.905	3.100	0.141	22000	27000	12	16.0	28.0	0.6	0.0370
62201	12	32	14.0	0.60	18.5	27.4	6.905	3.100	0.141	22000	27000	12	16.0	28.0	0.6	0.0450
6301	12	37	12.0	1.00	19.5	29.5	9.759	4.235	0.193	20000	24000	12	17.0	32.0	1.0	0.0610
61802	15	24	5.0	0.30	17.9	21.1	1.560	0.800	0.034	38000	60000	15	17.0	22.0	0.3	0.0074
61902	15	28	7.0	0.30	18.4	24.7	4.360	2.240	0.095	34000	56000	15	17.0	26.0	0.3	0.0160
16002	15	32	8.0	0.30	20.2	27.0	5.594	2.860	0.130	21000	25000	15	17.0	30.0	0.3	0.0270
6002	15	32	9.0	0.30	20.5	26.7	5.594	2.865	0.130	21000	25000	15	17.0	30.0	0.3	0.0300
6202	15	35	11.0	0.60	21.7	29.0	7.718	3.745	0.170	20000	24000	15	19.0	31.0	0.6	0.0460
62202	15	35	14.0	0.60	21.7	30.4	7.718	3.745	0.170	20000	24000	15	19.0	31.0	0.6	0.0540
6302	15	42	13.0	1.00	23.7	33.7	11.310	5.330	0.242	18000	21000	15	20.0	36.0	1.0	0.0850
61803	17	26	5.0	0.30	20.2	23.2	1.680	0.930	0.039	34000	56000	17	19.0	24.0	0.3	0.0082
61903	17	30	7.0	0.30	20.4	26.7	4.620	2.550	0.108	32000	50000	17	19.0	28.0	0.3	0.0180
16003	17	35	8.0	0.30	22.7	29.5	5.999	3.265	0.148	20000	24000	17	19.0	33.0	0.3	0.0320
6003	17	35	10.0	0.30	23.0	29.2	6.001	3.267	0.149	20000	24000	17	19.0	33.0	0.3	0.0400
6203	17	40	12.0	0.60	24.5	32.7	9.534	4.734	0.215	18000	21000	17	21.0	36.0	0.6	0.0730
62203	17	40	16.0	0.60	24.5	35.0	9.534	4.734	0.215	18000	21000	17	21.0	36.0	0.6	0.0830
6303	17	47	14.0	1.00	26.5	37.4	13.565	6.560	0.298	16000	19000	17	23.0	41.0	1.0	0.1150
6403	17	62	17.0	1.10	32.4	46.6	22.900	10.800	0.455	18000	28000	17	23.5	55.5	1.0	0.2700
61804	20	32	7.0	0.30	24.0	28.3	4.030	2.320	0.104	28000	45000	20	22.0	30.0	0.3	0.0180
61904	20	37	9.0	0.30	25.6	31.4	6.370	3.650	0.156	26000	43000	20	22.0	35.0	0.3	0.0380
16004	20	42	8.0	0.30	27.3	34.6	7.280	4.050	0.173	24000	38000	20	22.0	40.0	0.3	0.0500



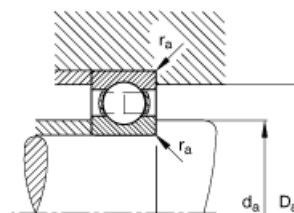
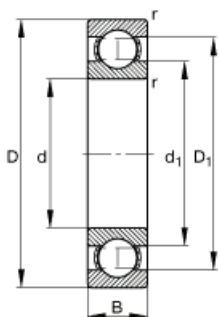
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight Kg
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	
6004	20	42	12.0	0.60	27.2	34.8	9.371	4.972	0.226	17000	20000	20	24.0	38.0	0.6	0.0700
6204	20	47	14.0	1.00	28.8	38.5	12.774	6.553	0.298	15000	18000	20	25.0	42.0	1.0	0.1080
62204	20	47	18.0	1.00	28.8	40.6	12.774	6.553	0.298	15000	18000	20	25.0	42.0	1.0	0.1300
63204	20	47	20.6	1.00	28.8	40.6	12.774	6.553	0.298	15000	18000	20	25.0	42.0	1.0	0.1460
6304	20	52	15.0	1.10	30.4	41.6	15.866	7.811	0.355	14000	17000	20	26.0	45.0	1.0	0.1450
62304	20	52	21.0	1.10	30.4	44.8	15.866	7.811	0.355	14000	17000	20	26.0	45.0	1.0	0.2000
6404	20	72	19.0	1.10	37.1	54.8	30.700	15.000	0.640	15000	24000	20	29.0	63.0	1.0	0.4000
62/22	22	50	14.0	1.00	32.2	41.8	14.000	7.650	0.325	19000	30000	22	27.6	44.4	1.0	0.1200
63/22	22	56	16.0	1.10	32.9	45.3	18.600	9.300	0.390	18000	28000	22	29.0	47.0	1.0	0.1800
61805	25	37	7.0	0.30	28.5	33.3	4.360	2.600	0.125	24000	38000	25	27.0	35.0	0.3	0.0220
61905	25	42	9.0	0.30	30.2	36.8	7.020	4.300	0.193	22000	36000	25	27.0	40.0	0.3	0.0450
16005	25	47	8.0	0.30	33.3	40.7	6.950	4.550	0.207	14000	17000	25	27.0	43.0	0.3	0.0530
6005	25	47	12.0	0.60	32.0	40.0	10.070	5.806	0.264	14000	17000	25	28.0	43.0	0.6	0.0820
6205	25	52	15.0	1.00	34.5	44.0	14.029	7.940	0.361	12000	15000	25	30.0	47.0	1.0	0.1290
62205	25	52	18.0	1.00	34.5	44.0	14.029	7.940	0.361	12600	15000	25	30.0	47.0	1.0	0.1500
6305	25	62	17.0	1.10	36.6	50.4	21.123	10.806	0.491	11000	13000	25	31.0	55.0	1.0	0.2300
62305	25	62	24.0	1.10	36.6	52.7	21.123	10.806	0.491	11000	13000	25	31.0	55.0	1.0	0.3200
6405	25	80	21.0	1.50	45.4	62.9	36.000	19.200	0.873	9400	11000	25	34.0	70.0	1.5	0.5300
62/28	28	58	16.0	1.00	37.0	49.2	16.800	9.500	0.405	16000	26000	28	33.6	52.4	1.0	0.1800
63/28	28	68	18.0	1.10	41.7	56.0	25.100	13.700	0.585	14000	22000	28	35.0	61.0	1.0	0.2900
61806	30	42	7.0	0.30	33.7	38.5	4.490	2.900	0.146	20000	32000	30	32.0	40.0	0.3	0.0270
61906	30	47	9.0	0.30	35.2	41.8	7.280	4.550	0.212	19000	30000	30	32.0	45.0	0.3	0.0510
16006	30	55	9.0	0.30	37.7	47.3	11.200	7.360	0.335	12000	14000	30	32.0	53.0	0.3	0.0870
6006	30	55	13.0	1.00	38.2	46.8	13.243	8.250	0.375	12000	14000	30	34.0	50.0	1.0	0.1190
6206	30	62	16.0	1.00	40.4	51.6	19.443	11.186	0.508	11000	13000	30	35.0	57.0	1.0	0.2000
62206	30	62	20.0	1.00	40.4	54.1	19.443	11.186	0.508	11000	13000	30	35.0	57.0	1.0	0.2400
6306	30	72	19.0	1.10	44.6	59.1	29.701	15.678	0.713	10000	12000	30	36.0	65.0	1.0	0.3310
6406	30	90	23.0	1.50	50.3	69.7	43.000	23.700	1.077	8400	10000	30	39.0	80.0	1.5	0.7250
61807	35	47	7.0	0.30	38.7	43.5	4.750	3.200	0.170	18000	28000	35	37.0	45.0	0.3	0.030



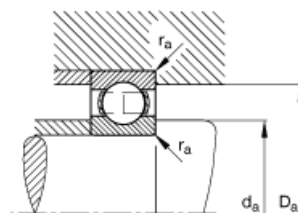
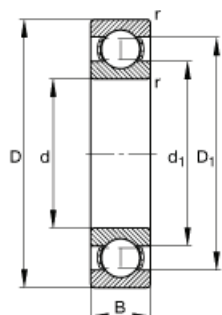
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
61907	35	55	10.0	0.60	41.6	48.4	9.560	6.800	0.290	16000	26000	35	38.2	51.8	0.6	0.0800
16007	35	62	9.0	0.30	44.1	53.0	9.960	7.362	0.335	10600	12600	35	37.0	60.0	0.3	0.1110
6007	35	62	14.0	1.00	43.8	53.3	15.956	10.328	0.469	10600	12600	35	39.5	57.0	1.0	0.1540
6207	35	72	17.0	1.10	46.9	60.0	25.663	15.227	0.692	9400	11000	35	42.0	65.0	1.0	0.2840
6307	35	80	21.0	1.50	49.6	65.4	33.367	19.230	0.874	8400	10000	35	42.0	71.0	1.5	0.4470
6407	35	100	25.0	1.50	57.4	79.5	55.200	31.000	1.409	7500	8900	35	44.0	90.0	1.5	0.9540
61808	40	52	7.0	0.30	43.7	48.5	4.940	3.450	0.190	16000	26000	40	42.0	50.0	0.3	0.0340
61908	40	62	12.0	0.60	46.9	55.1	13.800	10.000	0.430	14000	24000	40	43.2	58.8	0.6	0.1200
16008	40	68	9.0	0.30	49.4	58.6	12.667	9.817	0.437	9400	11000	40	42.0	62.0	0.3	0.1250
6008	40	68	15.0	1.00	49.3	58.8	16.824	11.493	0.522	9400	11000	40	44.0	63.0	1.0	0.1910
6208	40	80	18.0	1.10	52.6	67.4	32.633	19.887	0.904	8400	10000	40	47.0	73.0	1.0	0.3490
6308	40	90	23.0	1.50	56.1	73.8	40.760	24.170	1.099	7900	9400	40	47.0	81.0	1.5	0.6250
6408	40	110	27.0	2.00	62.8	87.0	63.100	36.200	1.645	6700	7900	40	50.0	97.0	2.0	1.1230
61809	45	58	7.0	0.30	49.1	53.9	6.630	6.300	0.260	14000	22000	45	47.0	56.0	0.3	0.0400
61909	45	68	12.0	0.60	52.4	60.6	14.000	10.800	0.470	13000	20000	45	48.2	64.8	0.6	0.1400
16009	45	75	10.0	0.60	55.0	65.4	15.659	12.172	0.553	8400	10000	45	49.0	71.0	1.0	0.1700
6009	45	75	16.0	1.00	54.8	65.3	21.100	15.300	0.695	8400	10000	45	49.0	70.0	1.0	0.2410
6209	45	85	19.0	1.10	57.6	72.4	32.678	20.325	0.924	7900	9400	45	52.0	78.0	1.0	0.4040
6309	45	100	25.0	1.50	62.2	82.7	52.804	31.715	1.442	7100	8400	45	52.0	91.0	1.5	0.8280
6409	45	120	29.0	2.00	68.9	95.8	76.500	44.700	2.032	6000	7100	45	55.0	107.0	2.0	1.5400
61810	50	65	7.0	0.30	55.1	59.9	6.760	6.800	0.285	13000	20000	50	52.0	63.0	0.3	0.0520
61910	50	72	12.0	0.60	56.9	65.1	14.600	11.800	0.500	12000	19000	50	53.2	68.8	0.6	0.1400
16010	50	80	10.0	0.60	60.0	70.0	16.092	13.147	0.598	7900	9400	50	54.0	76.0	0.6	0.1880
6010	50	80	16.0	1.00	59.8	70.3	21.720	16.650	0.757	7900	9400	50	54.0	75.0	1.0	0.2600
6210	50	90	20.0	1.10	62.5	77.4	35.066	23.226	1.056	7100	8400	50	57.0	83.0	1.0	0.4600
6310	50	110	27.0	2.00	66.8	91.1	61.754	37.754	1.716	6300	7500	50	60.0	100.0	2.0	1.0600
6410	50	130	31.0	2.10	75.5	104.0	87.400	52.100	2.368	5600	6700	50	63.0	116.0	2.0	1.8900
61811	55	72	9.0	0.30	60.6	66.4	9.040	8.800	0.380	12000	19000	55	57.0	70.0	0.3	0.0830
61911	55	80	13.0	1.00	63.2	71.8	16.500	14.000	0.600	11000	17000	55	59.6	75.4	1.0	0.1900



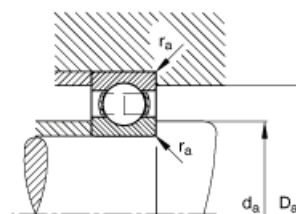
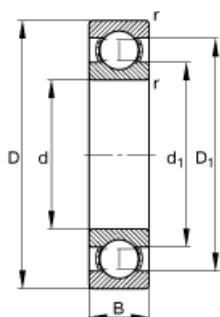
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight Kg
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	
16011	55	90	11.0	0.60	67.0	78.1	20.300	14.000	0.700	10000	16000	55	58.2	86.8	0.6	0.2600
6011	55	90	18.0	1.10	66.3	78.7	28.216	21.318	0.969	7100	8400	55	60.0	84.0	1.0	0.3830
6211	55	100	21.0	1.50	69.1	85.8	43.350	29.397	1.336	6700	7900	55	62.0	91.0	1.5	0.5970
6311	55	120	29.0	2.00	75.3	99.5	71.000	44.700	2.032	5600	6700	55	65.0	110.0	2.0	1.3800
6411	55	140	33.0	2.10	81.6	113.0	100.000	61900	2.814	5300	6300	55	68.0	126.0	2.0	2.2900
61812	60	78	10.0	0.30	65.6	72.4	11.900	11.400	0.490	11000	17000	60	62.0	76.0	0.3	0.1100
61912	60	85	13.0	1.00	68.2	76.8	16.500	14.300	0.600	10000	16000	60	64.6	80.4	1.0	0.2000
16012	60	95	11.0	0.60	72.0	83.0	20.800	15.000	0.740	9500	15000	60	63.2	91.8	0.6	0.2800
6012	60	95	18.0	1.10	71.3	83.7	29.343	23.256	1.057	6700	7900	60	65.0	88.0	1.00	0.4110
6212	60	110	22.0	1.50	75.5	94.6	52.846	35.786	1.627	6000	7100	60	67.0	101.0	1.50	0.7710
6312	60	130	31.0	2.10	81.9	108.0	81.500	52.100	2.368	5300	6300	60	72.0	118.0	2.0	1.7200
6412	60	150	35.0	2.10	88.1	122.0	110.000	69.400	3.079	4700	5600	60	73.0	136.0	2.0	2.7600
61813	65	85	10.0	0.60	71.6	78.4	12.400	12.700	0.540	10000	16000	65	68.2	81.8	0.6	0.1300
61913	65	90	13.0	1.00	73.2	81.8	17.400	16.00	0.680	9500	15000	65	69.6	85.4	1.0	0.2200
16013	65	100	11.0	0.60	76.5	88.4	21.200	19.600	0.891	6300	7500	65	69.0	96.0	0.6	0.3000
6013	65	100	18.0	1.10	76.3	88.7	30.500	25.100	1.141	6300	7500	65	70.0	93.0	1.0	0.4370
6213	65	120	23.0	1.50	83.3	102.0	57.210	40.011	1.819	5300	6300	65	72.0	111.0	1.5	0.9970
6313	65	140	33.0	2.10	88.4	116.0	92.600	59.600	2.676	5000	6000	65	76.0	128.0	2.0	2.1000
6413	65	160	37.0	2.10	94.0	131.0	117.950	78.329	3.357	4500	5300	65	78.0	146.0	2.0	3.2800
61814	70	90	10.0	0.60	76.6	83.4	12.400	13.200	0.560	9000	15000	70	73.2	86.8	0.6	0.1400
61914	70	100	16.0	1.00	79.7	90.3	23.800	21.200	0.900	8500	14000	70	74.6	95.4	1.0	0.3500
16014	70	110	13.0	0.60	83.3	96.8	27.600	25.100	1.141	5600	6700	70	74.0	106.0	0.6	0.4330
6014	70	110	20.0	1.10	82.9	97.2	37.960	30.959	1.407	5600	6700	70	75.0	103.0	1.0	0.6040
6214	70	125	24.0	1.50	87.1	108.0	62.000	43.800	1.991	5300	6300	70	77.0	116.0	1.5	1.0700
6314	70	150	35.0	2.10	95.0	125.0	104.00	63.100	2.735	4700	5600	70	81.0	138.0	2.0	2.5400
6414	70	180	42.0	3.00	104.0	146.0	144.000	104.000	4.225	4000	4700	70	85.0	164.0	2.5	4.8500
61815	75	95	10.0	0.60	81.6	88.4	12.700	14.300	0.610	8500	14000	75	78.2	91.8	0.6	0.1500
61915	75	105	16.0	1.00	84.7	95.3	24.200	19.300	0.965	8000	13000	75	79.6	100.0	1.0	0.3700
16115	75	110	12.0	0.60	88.3	102.0	28.600	27.000	1.140	8000	13000	75	77.0	108.0	0.3	0.3800



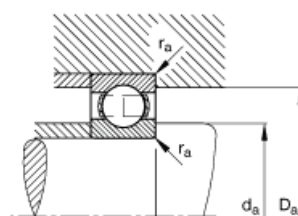
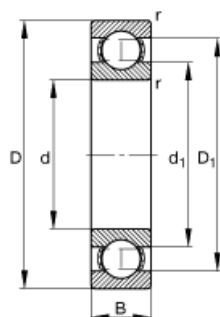
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
16015	75	115	13.0	0.60	88.3	102.0	28.700	26.600	1.209	5300	6300	75	79.0	111.0	0.6	0.4570
6015	75	115	20.0	1.10	87.9	102.0	39.747	33.170	1.508	5300	6300	75	80.0	108.0	1.0	0.6380
6215	75	130	25.0	1.50	92.1	113.0	66.179	49.311	2.214	5000	6000	75	82.0	122.0	1.5	1.1800
6315	75	160	37.0	2.10	101.0	133.0	114.000	76.400	3.204	4200	5000	75	86.0	148.0	2.0	3.0600
6415	75	190	45.0	3.00	110.0	154.0	152.525	112.922	4.459	3800	4500	78	90.0	174.0	2.5	5.7400
61816	80	100	10.0	0.60	86.6	93.4	13.000	15.000	0.640	8000	13000	80	83.2	96.8	0.6	0.1500
61916	80	110	16.0	1.00	89.8	100.0	25.100	20.400	1.020	7500	12000	80	84.6	105.0	1.0	0.4000
16016	80	125	14.0	0.60	95.3	110.0	32.900	31.600	1.419	5000	6000	80	84.0	121.0	0.6	0.5970
6016	80	125	22.0	1.10	94.4	111.0	47.500	39.800	1.787	5000	6000	80	85.0	118.0	1.0	0.8450
6216	80	140	26.0	2.00	101.0	122.0	72.200	53.100	2.301	4700	5600	80	90.0	130.0	2.0	1.4000
6316	80	170	37.0	2.10	108.0	142.0	122.850	86.226	3.506	4000	4700	80	91.0	158.0	2.0	3.6300
6416	80	200	48.0	3.00	117.0	163.0	163.587	124.984	4.801	3500	4200	80	95.0	184.0	2.5	6.7200
61817	85	110	13.0	1.00	93.2	102.0	19.500	20.800	0.880	7500	12000	85	89.6	105.0	1.0	0.2700
61917	85	120	18.0	1.10	96.4	109.0	31.900	30.000	1.250	7000	11000	85	91.0	114.0	1.0	0.5500
16017	85	130	14.0	0.60	100.0	115.0	34.100	32.900	1.442	4700	5600	85	89.0	126.0	0.6	0.6260
6017	85	130	22.0	1.10	99.4	116.0	49.794	42.609	1.868	4700	5600	85	90.0	123.0	1.0	0.8920
6217	85	150	28.0	2.00	106.0	130.0	83.299	63.675	2.670	4200	5000	85	95.0	140.0	2.0	1.8000
6317	85	180	41.0	3.00	115.0	151.0	132.507	96.069	3.794	3800	4500	85	98.0	166.0	2.5	4.2000
6417	85	210	52.0	4.00	123.0	171.0	174.000	136.000	5.090	3300	4000	85	105.0	190.0	3.0	7.8800
61818	90	115	13.0	1.00	98.2	107.0	19.500	22.000	0.915	7000	11000	90	94.6	110.0	1.0	0.2800
61918	90	125	18.0	1.10	101.0	114.0	33.200	31.500	1.230	6700	11000	90	96.0	119.0	1.0	0.5900
16018	90	140	16.0	1.00	107.0	123.0	43.600	39.000	1.560	6300	10000	90	94.6	135.0	1.0	0.8500
6018	90	140	24.0	1.50	106.0	124.0	58.400	49.200	2.085	4500	5300	90	96.0	132.0	1.5	1.1700
6218	90	160	30.0	2.00	113.0	138.0	96.200	70.800	2.878	4000	4700	90	100.0	150.0	2.0	2.1600
6318	90	190	43.0	3.00	121.0	159.0	144.000	108.000	4.149	3500	4200	90	103.0	176.0	2.5	4.9500
6418	90	225	54.0	4.00	132.0	181.0	192.000	158.000	5.723	3200	3800	90	110.0	205.0	3.0	11.4000
61819	95	120	13.0	1.00	103.0	112.0	19.900	22.800	0.930	6700	11000	95	99.6	115.0	1.0	0.3000
61919	95	130	18.0	1.10	106.0	119.0	33.800	33.500	1.430	6300	10000	95	101.0	124.0	1.0	0.6100
16019	95	145	16.0	1.00	112.0	128.0	42.300	41.500	1.722	4200	5000	95	100.0	140.0	1.0	0.8900



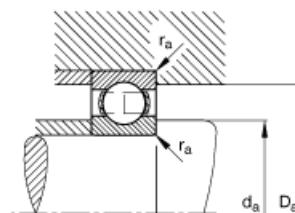
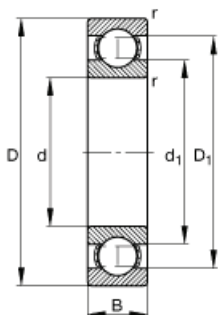
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
6019	95	145	24.0	1.50	111.0	129.0	60.700	54.100	2.245	4200	5000	95	102.0	137.0	1.5	1.2200
6219	95	170	32.0	2.10	118.0	146.0	108.000	81.000	3.199	3800	4500	95	107.0	158.0	2.0	2.6000
6319	95	200	45.0	3.00	128.0	167.0	152.444	117.366	4.393	3300	4000	95	109.0	186.0	2.5	5.7200
61820	100	125	13.0	1.00	108.0	117.0	19.900	24.000	0.950	6300	10000	100	105.0	120.0	1.0	0.3100
61920	100	140	20.0	1.10	113.0	127.0	42.300	41.000	1.630	6000	9500	100	106.0	134.0	1.0	0.8300
16020	100	150	16.0	1.00	116.0	134.0	44.000	43.800	1.781	4200	5000	100	105.0	145.0	1.0	0.9100
6020	100	150	24.0	1.50	116.0	134.0	60.096	54.244	2.205	4200	5000	100	106.0	142.0	1.5	1.2700
6220	100	180	34.0	2.10	125.0	155.0	123.000	92.600	3.557	3500	4200	100	112.0	169.0	2.0	3.1300
6320	100	215	47.0	3.00	136.0	179.0	174.000	141.000	5.107	3200	3800	100	113.0	201.0	2.5	7.0700
61821	105	130	13.0	1.00	112.0	123.0	20.800	19.600	1.000	6300	10000	105	110.0	125.0	1.0	0.3200
61921	105	145	20.0	1.10	118.0	132.0	44.200	44.000	1.700	5600	9500	105	111.0	139.0	1.0	0.8700
16021	105	160	18.0	1.00	123.0	142.0	54.000	51.000	1.860	5300	8500	105	110.0	155.0	1.0	1.2000
6021	105	160	26.0	2.00	123.0	143.0	72.200	65.600	2.590	4000	4700	105	113.0	151.0	2.0	1.5900
6221	105	190	36.0	2.10	131.0	163.0	132.927	104.833	3.924	3300	4000	105	117.0	178.0	2.0	3.7400
6321	105	225	49.0	3.00	142.0	188.0	185.000	153.000	5.414	3000	3500	105	119.0	211.0	2.5	8.0000
61822	110	140	16.0	1.00	119.0	131.0	28.100	26.000	1.250	5600	9500	110	115.0	135.0	1.0	0.6000
61922	110	150	20.0	1.10	123.0	137.0	43.600	45.000	1.660	5600	9000	110	116.0	144.0	1.0	0.9000
16022	110	170	19.0	1.00	130.0	150.0	57.600	56.200	2.159	3800	4500	110	115.0	165.0	1.0	1.4600
6022	110	170	28.0	2.00	129.0	151.0	82.500	72.200	2.774	3800	4500	110	118.0	161.0	2.0	1.9500
6222	110	200	38.0	2.10	138.0	172.0	144.000	117.000	4.272	3200	3800	110	122.0	188.0	2.0	4.3700
6322	110	240	50.0	3.00	150.0	200.0	203.000	180.000	6.185	2600	3200	110	123.0	227.0	2.5	9.5800
61824	120	150	16.0	1.00	129.0	141.0	29.100	28.000	1.290	5300	8500	120	125.0	145.0	1.0	0.6500
61924	120	165	22.0	1.10	134.0	151.0	55.300	57.000	2.040	5000	8000	120	126.0	159.0	1.0	1.2000
16024	120	180	19.0	1.00	139.0	161.0	61.000	63.100	2.342	3300	4000	120	125.0	175.0	1.0	1.8000
6024	120	180	28.0	2.00	139.0	161.0	85.000	79.400	2.947	3300	4000	120	128.0	171.0	2.0	2.1000
6224	120	215	40.0	2.10	151.0	184.0	144.000	117.000	4.109	3000	3500	120	132.0	203.0	2.0	5.1500
6324	120	260	55.0	3.00	165.0	215.0	208.000	186.000	5.700	3400	5600	120	134.0	246.0	2.5	12.5000
61826	130	165	18.0	1.10	140.0	155.0	37.700	43.000	1.600	4800	8000	130	136.0	159.0	1.0	0.9300
61926	130	180	24.0	1.50	146.0	164.0	65.503	67.193	2.453	3200	3800	130	137.0	172.0	1.0	1.8600



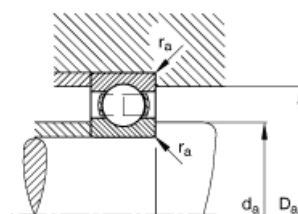
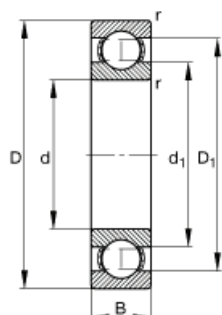
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
16026	130	200	22.0	1.10	154.0	176.0	83.200	81.500	2.700	4300	7000	130	136.0	192.0	1.0	2.3500
6026	130	200	33.0	2.00	153.0	177.0	106.986	99.667	3.527	3200	3800	130	138.0	191.0	2.0	3.2600
6226	130	230	40.0	3.00	161.0	198.0	153.000	133.000	4.506	2800	3300	130	144.0	216.0	2.5	6.2000
6326 M	130	280	58.0	4.00	178.0	232.0	229.000	216.000	6.300	4500	5000	130	147.0	263.0	3.0	17.5000
61828	140	175	18.0	1.10	151.0	164.0	39.000	46.500	1.660	4500	7500	140	146.0	169.0	1.0	0.9900
61928 MA	140	190	24.0	1.50	156.0	175.0	66.300	72.000	2.360	5600	7000	140	147.0	183.0	1.5	1.7000
16028	140	210	22.0	1.10	164.0	186.0	80.600	86.500	2.800	4000	6700	140	146.0	204.0	1.0	2.5000
6028	140	210	33.0	2.00	163.0	187.0	110.000	108.000	3.711	3000	3500	140	148.0	200.0	2.0	3.3900
6228	140	250	42.0	3.00	176.0	213.0	166.000	150.000	4.883	2500	3000	140	154.0	236.0	2.5	7.5600
6328 M	140	300	62.0	4.00	191.0	248.0	251.000	245.000	7.100	4300	4800	140	157.0	283.0	3.0	22.0000
61830	150	190	20.0	1.10	163.0	177.0	48.800	61.000	1.960	4300	6700	150	156.0	184.0	1.0	1.4000
61930 MA	150	210	28.0	2.00	169.0	191.1	88.400	93.000	2.900	5300	6300	150	159.0	201.0	2.0	3.0500
16030	150	225	24.0	1.10	175.0	199.0	92.200	98.000	3.050	3800	6000	150	156.0	219.0	1.0	3.1500
6030	150	225	35.0	2.10	174.0	201.0	126.000	126.000	4.183	2700	3200	150	159.0	213.0	2.0	4.1600
6230	150	270	45.0	3.00	191.0	227.0	190.000	181.000	5.677	2200	2700	150	164.0	256.0	2.5	9.8500
6330 M	150	320	65.0	4.00	206.0	263.0	276.000	285.000	7.800	4000	4300	150	167.0	303.0	3.0	26.0000
61832	160	200	20.0	1.10	173.0	187.0	49.400	64.000	2.000	4000	6300	160	166.0	194.0	1.0	1.4500
61932 MA	160	220	28.0	2.00	179.0	201.0	92.300	98.000	3.050	5000	6000	160	169.0	211.0	2.0	3.2500
16032	160	240	25.0	1.50	186.0	213.0	99.500	108.000	3.250	3600	5600	160	167.0	233.0	1.5	3.7000
6032	160	240	38.0	2.00	186.0	214.0	143.000	143.000	4.300	3600	5600	160	169.0	231.0	2.0	5.9000
6232	160	290	48.0	2.50	206.0	242.0	186.000	186.000	5.300	3000	4500	160	174.0	276.0	2.5	14.5000
6332 M	160	340	68.0	3.00	219.0	281.0	276.000	285.000	7.650	3800	4000	160	177.0	323.0	3.0	29.0000
61834	170	215	22.0	1.10	184.0	201.0	61.800	78.000	2.400	3600	6000	170	176.0	209.0	1.0	1.9000
61934 MA	170	230	28.0	2.00	189.0	211.0	93.600	106.000	3.150	4800	5600	170	179.0	221.0	2.0	3.4000
16034	170	260	28.0	1.50	200.0	229.0	119.000	129.000	3.750	3200	5300	170	177.0	253.0	1.5	5.0000
6034 M	170	260	42.0	2.10	199.0	231.0	168.000	173.000	5.000	4300	5300	170	180.0	250.0	2.0	7.9000
6234 M	170	310	52.0	4.00	219.0	259.0	212.000	224.000	6.100	3800	4300	170	187.0	293.0	3.0	17.5000
6334 M	170	360	72.0	4.00	231.0	298.0	312.000	340.000	8.800	3400	3800	170	187.0	343.0	3.0	34.5000
61836	180	225	22.0	1.10	194.0	211.0	62.400	81.500	2.450	3400	5600	180	186.0	219.0	1.0	2.0000



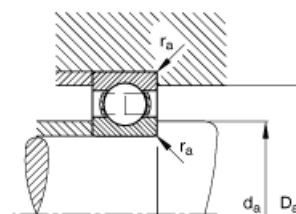
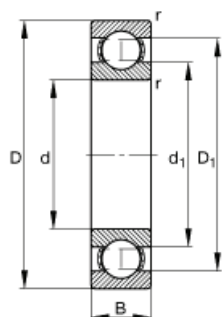
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	
61936 MA	180	250	33.0	2.00	203.0	227.0	119.000	134.000	3.900	4300	5300	180	189.0	241.0	2.0	5.050
16036	180	280	31.0	2.00	214.0	246.0	138.000	146.000	4.150	4000	4800	180	189.0	271.0	2.0	6.600
6036 M	180	280	46.0	2.10	212.0	248.0	190.000	200.000	5.600	4000	4800	180	190.0	270.0	2.0	10.500
6236 M	180	320	52.0	4.00	227.0	273.0	229.000	240.000	6.400	3600	4000	180	197.0	303.0	3.0	18.500
6336 M	180	380	75.0	4.00	245.0	314.0	351.000	405.000	10.400	3200	3600	180	197.0	363.0	3.0	42.500
61838	190	240	24.0	1.50	206.0	224.0	76.100	98.000	2.800	3200	5300	190	197.0	233.0	1.5	2.600
61938 MA	190	260	33.0	2.00	213.0	237.0	117.000	134.000	3.800	4300	5000	180	199.0	251.0	2.0	5.250
16038	190	290	31.0	2.00	224.0	255.0	148.000	166.000	4.550	3000	4800	190	199.0	281.0	2.0	7.900
6038 M	190	290	46.0	2.10	222.0	258.0	195.000	216.000	5.850	3800	4800	190	200.0	280.0	2.0	11.000
6238 M	190	340	55.0	3.00	240.0	290.0	255.000	280.000	7.350	3400	3800	190	207.0	323.0	3.0	23.000
6338 M	190	400	78.0	5.00	259.0	331.0	371.000	430.000	10.800	3000	3400	190	210.0	380.0	4.0	49.000
61840	200	250	24.0	1.50	216.0	234.0	76.100	102.000	2.900	3200	5000	200	207.0	234.0	1.5	2.700
61940 MA	200	280	38.0	2.10	226.0	254.0	148.000	166.000	4.550	3800	4800	200	210.0	270.0	2.0	7.400
16040	200	310	34.0	2.00	237.0	272.0	168.000	190.000	5.100	2800	4300	200	209.0	301.0	2.0	8.850
6040 M	200	310	51.0	2.10	235.0	275.0	216.000	245.000	6.400	3600	4300	200	210.0	300.0	2.0	14.000
6240 M	200	360	58.0	4.00	255.0	302.0	270.000	310.000	7.800	3200	3600	200	217.0	343.0	3.0	28.000
61844	220	270	24.0	1.50	236.0	254.0	78.000	110.000	3.000	2800	4500	220	227.0	263.0	1.5	3.000
61944 MA	220	300	38.0	2.10	246.0	274.0	151.000	180.000	4.750	3600	4300	220	230.0	290.0	2.0	8.000
16044	220	340	37.0	2.10	262.0	298.0	174.000	204.000	5.200	2400	4000	220	230.0	330.0	2.0	11.500
6044 M	220	340	56.0	3.00	258.0	302.0	247.000	290.000	7.350	3200	4000	220	233.0	327.0	2.5	18.500
6244 M	220	400	65.0	4.00	283.0	335.0	296.000	365.000	8.800	3000	3200	220	237.0	383.0	3.0	37.000
6344 M	220	460	88.0	5.00	300.0	381.0	410.000	520.000	12.000	2600	3000	220	240.0	440.0	4.0	72.500
61848	240	300	28.0	2.00	259.0	281.0	108.000	150.000	3.800	2600	4000	240	249.0	291.0	2.0	4.500
61948 MA	240	320	38.0	2.10	266.0	294.0	159.000	200.000	5.100	3200	4000	240	250.0	310.0	2.0	8.600
16048 MA	240	360	37.0	2.10	280.0	320.0	178.000	220.000	5.300	3000	3600	240	250.0	350.0	2.0	14.500
6048 M	240	360	56.0	3.00	278.0	322.0	255.000	315.000	7.800	3000	3600	240	253.0	347.0	2.50	19.500
6248 M	240	440	72.0	4.00	308.0	373.0	358.000	465.000	10.800	2600	3000	240	257.0	423.0	3.0	51.000
6348 M	240	500	95.0	5.00	330.0	411.0	442.000	585.000	12.900	2400	2600	240	260.0	480.0	4.0	92.500
61852	260	320	28.0	2.00	279.0	301.0	111.000	163.000	4.000	2400	3800	260	269.0	311.0	2.0	4.800



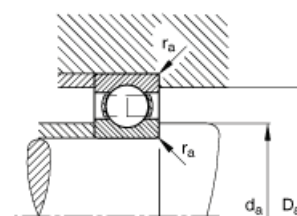
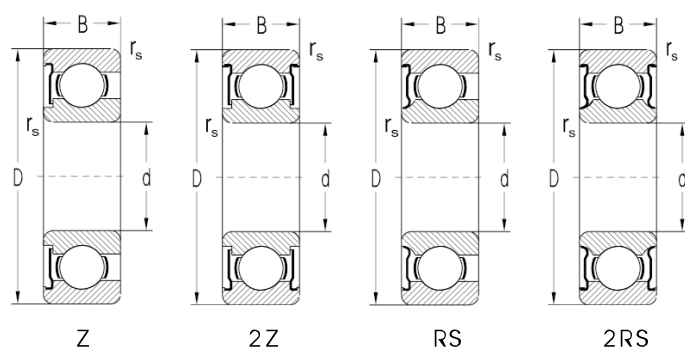
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
61952 MA	260	360	46.0	2.10	292.0	328.0	212.000	270.000	6.550	3000	3600	260	270.0	350.0	2.0	14.500
16052 MA	260	400	44.0	3.00	307.0	352.0	238.000	310.000	7.200	2800	3200	260	273.0	387.0	2.5	21.500
6052 M	260	400	65.0	4.00	305.0	355.0	291.000	375.000	8.800	2800	3200	260	277.0	383.0	3.0	29.500
6252 M	260	480	80.0	5.00	336.0	405.0	390.000	530.000	11.800	2400	2600	260	280.0	460.0	4.0	65.500
61856	280	350	33.0	2.00	302.0	327.0	138.000	200.000	4.750	2200	3400	280	289.0	341.0	2.0	7.400
61956 MA	280	380	46.0	2.10	312.0	348.0	216.000	285.000	6.700	2800	3200	280	291.0	369.0	2.0	15.000
16056 MA	280	420	44.0	3.00	326.0	374.0	242.000	335.000	7.500	2600	3000	280	293.0	407.0	2.5	23.000
6056 M	280	420	65.0	4.00	325.0	375.0	302.000	405.000	9.300	2600	3000	280	296.0	404.0	3.0	31.000
6256 M	280	500	80.0	5.00	353.0	427.0	423.000	600.000	12.900	2200	2600	280	300.0	480.0	4.0	71.000
61860 MA	300	380	38.0	2.10	326.0	354.0	172.000	245.000	5.600	2600	3200	300	309.0	371.0	2.0	10.500
61960 MA	300	420	56.0	3.00	338.0	382.0	270.000	375.000	8.300	2400	3000	300	313.0	407.0	2.5	24.500
16060 MA	300	460	50.0	4.00	352.0	408.0	286.000	405.000	8.800	2400	2800	300	315.0	445.0	3.0	32.000
6060 M	300	460	74.0	4.00	350.0	410.0	358.000	500.000	10.800	2400	2800	300	315.0	445.0	3.0	44.000
6260 M	300	540	85.0	5.00	381.0	459.0	462.000	670.000	13.700	2000	2400	300	320.0	520.0	4.0	88.500
61864 MA	320	400	38.0	2.10	346.0	374.0	172.000	255.000	5.700	2400	3000	320	332.0	388.0	2.0	11.000
61964 MA	320	440	56.0	3.00	358.0	402.0	276.000	400.000	8.650	2400	2800	320	333.0	427.0	2.5	25.500
16064 MA	320	480	50.0	4.00	372.0	428.0	281.000	405.000	8.650	2200	2600	320	335.0	465.0	3.0	34.000
6064 M	320	480	74.0	4.00	370.0	431.0	371.000	540.000	11.400	2200	2600	320	335.0	465.0	3.0	46.000
61868 MA	340	420	38.0	2.10	366.0	394.0	178.000	275.000	6.000	2400	2800	340	352.0	408.0	2.0	11.500
61968 MA	340	460	56.0	3.00	378.0	423.0	281.000	425.000	9.000	2200	2600	340	353.0	447.0	2.5	26.500
16068 MA	340	520	57.0	4.00	398.0	462.0	345.000	520.000	10.600	2000	2400	340	355.0	505.0	3.0	45.000
6068 M	340	520	82.0	5.00	396.0	462.0	423.000	640.000	13.200	2000	2400	340	360.0	500.0	4.0	62.000
61872 MA	360	440	38.0	2.10	385.0	416.0	182.000	285.000	6.100	2200	2600	360	372.0	428.0	2.0	12.000
61972 MA	360	480	56.0	3.00	398.0	442.0	291.000	450.000	9.150	2000	2600	360	373.0	467.0	2.5	28.000
16072 MA	360	540	57.0	4.00	418.0	482.0	351.000	550.000	11.000	1900	2400	360	375.0	525.0	3.0	49.000
6072 M	360	540	82.0	5.00	416.0	485.0	462.000	735.000	15.000	1900	2400	360	378.0	522.0	4.0	64.500
61876 MA	380	480	46.0	2.10	412.0	449.0	242.000	390.000	8.000	2000	2400	380	392.0	468.0	2.0	20.000
61976 MA	380	520	65.0	4.00	425.0	475.0	338.000	540.000	10.800	1900	2400	380	395.0	505.0	3.0	40.000
16076 MA	380	560	57.0	4.00	438.0	502.0	377.000	620.000	12.200	1800	2200	380	395.0	545.0	3.0	51.000



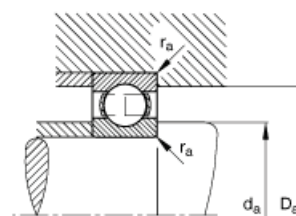
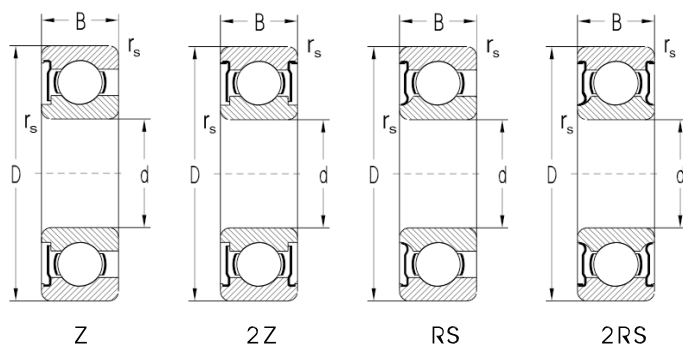
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight Kg
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	
6076 M	380	560	82.0	5.00	436.0	502.0	462.000	750.000	14.600	1800	2200	380	398.0	542.0	4.0	67.500
61880 MA	400	500	46.0	2.10	432.0	471.0	247.000	405.000	8.150	1900	2400	400	412.0	488.0	2.0	20.500
61980 MA	400	540	65.0	4.00	445.0	495.0	345.000	570.000	11.200	1800	2200	400	415.0	525.0	3.0	41.500
6080 M	400	600	90.0	5.00	462.0	536.0	520.000	865.000	16.300	1700	2000	400	418.0	582.0	4.0	87.500
61884 MA	420	520	46.0	2.10	452.0	491.0	251.000	425.000	8.300	1800	2200	420	432.0	508.0	2.0	21.500
61984 MA	420	560	65.0	4.00	465.0	515.0	351.000	600.000	11.400	1800	2200	420	435.0	545.0	3.0	43.000
6084 M	420	620	90.0	5.00	482.0	558.0	507.000	880.000	16.300	1600	2000	420	438.0	602.0	4.0	91.500
61888 MA	440	540	46.0	2.10	472.0	510.0	255.000	440.000	8.500	1800	2200	440	452.0	528.0	2.0	22.500
61988 MA	440	600	74.0	4.00	492.0	548.0	410.000	720.000	13.200	1600	2000	440	455.0	585.0	3.0	60.500
6088 M	440	650	94.0	6.00	505.0	586.0	553.000	965.000	17.600	1500	1900	440	463.0	627.00	5.0	105.000
61892 MA	460	580	56.0	3.00	498.0	542.0	319.000	570.000	10.600	1600	2000	460	473.0	567.0	2.5	35.000
61992 MA	460	620	74.0	4.00	512.0	568.0	423.000	750.000	13.700	1600	1900	460	476.0	604.0	3.0	62.500
6092 MB	460	680	100.0	6.00	528.0	614.0	582.000	1060.000	19.000	1500	1800	460	483.0	657.0	5.0	120.000
61896 MA	480	600	56.0	3.00	518.00	564.00	325.000	600.000	10.800	1600	1900	480	493.0	587.0	2.5	36.500
61996 MA	480	650	78.0	5.00	535.0	595.0	449.000	815.000	14.600	1500	1800	480	498.0	632.0	4.0	74.000
6096 MB	480	700	100.0	6.00	548.0	630.0	618.000	1140.000	20.000	1400	1700	480	503.0	677.0	5.0	125.000
618/500 MA	500	620	56.0	3.00	538.0	582.0	332.000	620.000	11.200	1500	1800	500	513.0	607.0	2.5	40.500
619/500 MA	500	670	78.0	5.00	555.0	615.0	462.000	865.000	15.000	1400	1700	500	518.0	652.0	4.0	77.000
618/530 MA	530	650	56.0	3.00	568.0	614.0	332.000	655.000	11.200	1400	1700	530	543.0	637.0	2.5	39.500
619/530 MA	530	710	82.0	5.00	587.0	653.0	488.000	930.000	15.600	1300	1600	530	548.0	692.0	4.0	90.500
618/600 MA	600	730	60.0	3.00	642.0	688.0	364.000	765.000	12.500	1200	1500	600	613.0	717.0	2.5	52.000
619/600 MA	600	800	90.0	5.00	664.0	736.0	585.000	1220.000	19.600	1100	1400	600	618.0	782.0	4.0	125.000
618/630 MA	630	780	69.0	4.00	678.0	732.0	442.000	965.000	15.300	1100	1400	630	645.0	765.0	3.0	73.000
619/630 MA	630	850	100.0	6.00	702.0	778.0	624.000	1340.000	21.200	1100	1300	630	653.0	827.0	5.0	160.000
618/670 MA	670	820	69.0	4.00	718.0	772.0	442.000	1000.000	15.600	1100	1300	670	685.0	805.0	3.0	83.500
619/670 MA	670	900	103.0	6.00	745.0	825.0	676.000	1500.000	22.400	1000	1200	670	693.0	877.0	5.0	185.000
618/710 MA	710	870	74.0	4.00	761.0	819.0	475.000	1100.000	16.600	1000	1200	710	725.0	855.0	3.0	93.500
619/710 MA	710	950	106.0	6.00	790.0	870.0	663.000	1500.000	22.000	900	1100	710	733.0	927.0	5.0	220.000
60/710 MA	710	1030	140.0	7.50	813.0	927.0	956.000	2200.000	31.500	850	1000	710	738.0	1002.0	6.0	375.000



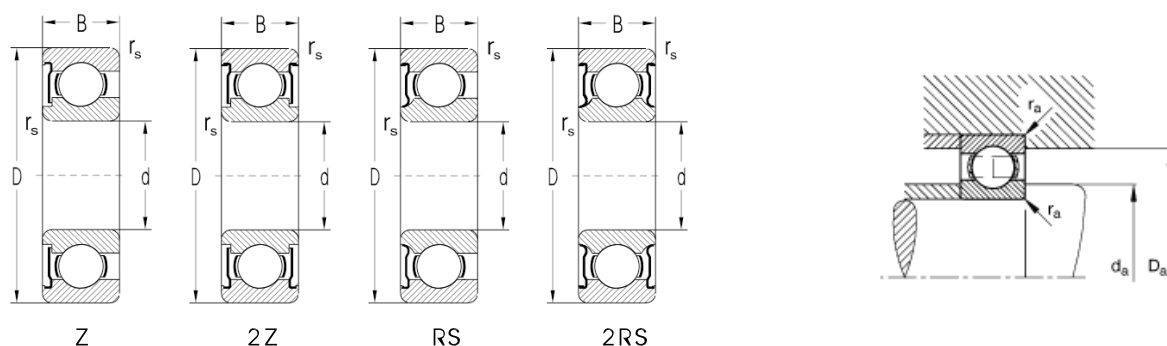
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d mm	da mm	Da mm	ra mm	Kg
618/750 MA	750	920	78.0	5.00	804.0	866.0	527.000	1250.000	18.300	900	1100	750	768.0	902.0	4.0	110.000
619/750 MA	750	1000	112.0	6.00	835.0	915.0	761.000	1800.000	25.500	850	1000	750	773.0	977.0	5.0	255.000
618/800 MA	800	980	82.0	5.00	857.0	923.0	559.000	1370.000	19.300	850	1000	800	818.0	962.0	4.0	130.000
619/800 MA	800	1060	115.0	6.00	884.0	976.0	832.000	2040.000	28.500	800	950	800	823.0	1037.0	5.0	275.000
618/850 MA	850	1030	82.0	5.00	907.0	973.0	559.000	1430.000	19.600	750	950	850	868.0	1012.0	4.0	140.000
618/900 MA	900	1090	85.0	5.00	961.0	1030.0	618.000	1600.000	21.600	700	850	900	918.0	1072.0	4.0	160.000
618/1000 MA	1000	1220	100.0	6.00	1076.0	1145.0	637.000	1800.000	22.800	600	750	1000	1023.0	1197.0	5.0	245.000
618/1060 MA	1060	1280	100.0	6.00	1132.0	1209.0	728.000	2120.000	26.500	560	670	1060	1083.0	1257.0	5.0	260.000
618/1120 MA	1120	1360	106.0	6.00	1202.0	1278.0	741.000	2200.000	26.500	530	630	1120	1143.0	1337.0	5.0	315.000
618/1180 MB	1180	1420	106.0	6.00	1262.0	1339.0	761.000	2360.000	27.500	480	560	1180	1203.0	1397.0	5.0	330.000
618/1500 TN	1500	1820	140.0	7.50	1607.0	1714.0	1210.000	4400.000	46.500	240	380	1500	1528.0	1792.0	6.0	690.000



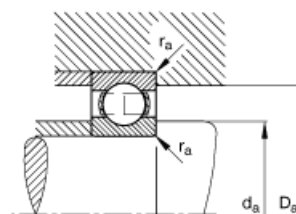
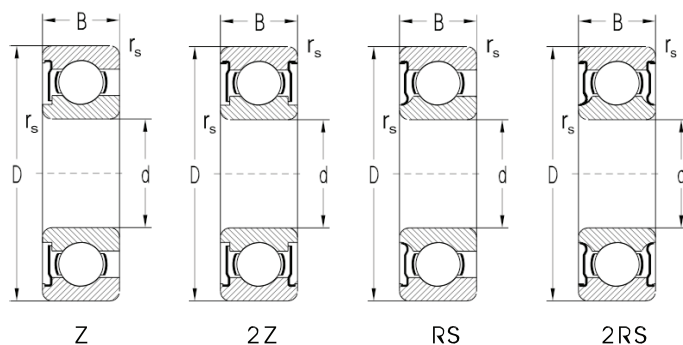
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
623-Z	3	10	4	0.15	5.2	-	8.2	0.54	0.18	0.007	60000	130000	4.2	8.8	0.1	0.0015
623-2Z	3	10	4	0.15	5.2	-	8.2	0.54	0.18	0.007	60000	130000	4.2	8.8	0.1	0.0015
623-RS	3	10	4	0.15	5.2	-	8.2	0.54	0.18	0.007	60000	130000	4.2	8.8	0.1	0.0015
623-2RS	3	10	4	0.15	5.2	-	8.2	0.54	0.18	0.007	60000	130000	4.2	8.8	0.1	0.0015
628/4-2Z	4	9	3.5	0.10	5.2	-	7.8	0.54	0.18	0.007	70000	140000	4.6	8.4	0.1	0.0010
638/4-2Z	4	9	4	0.10	5.2	-	7.8	0.54	0.18	0.007	70000	140000	4.6	8.4	0.1	0.0013
619/4-2Z	4	11	4	0.15	5.9	-	9.8	0.72	0.23	0.010	63000	130000	4.8	10.2	0.1	0.0017
604-Z	4	12	4	0.20	6.1	-	9.8	0.81	0.28	0.012	60000	120000	5.4	10.6	0.2	0.0021
604-2Z	4	12	4	0.20	6.1	-	9.8	0.81	0.28	0.012	60000	120000	5.4	10.6	0.2	0.0021
624-Z	4	13	5	0.20	6.7	-	11.2	0.94	0.29	0.012	53000	110.000	5.8	11.2	0.2	0.0031
624-2Z	4	13	5	0.20	6.7	-	11.2	0.94	0.29	0.012	53000	110.000	5.8	11.2	0.2	0.0031
634-Z	4	16	5	0.30	8.4	-	13.3	1.11	0.38	0.016	48000	95000	6.4	13.6	0.3	0.0054
634-2Z	4	16	5	0.30	8.4	-	13.3	1.11	0.38	0.016	48000	95000	6.4	13.6	0.3	0.0054
634-RS	4	16	5	0.30	8.4	-	13.3	1.11	0.38	0.016	28000	95000	6.4	13.6	0.3	0.0054
634-2RS	4	16	5	0.30	8.4	-	13.3	1.11	0.38	0.016	28000	95000	6.4	13.6	0.3	0.0054
628/5-2Z	5	11	4	0.15	6.8	-	9.7	0.64	0.26	0.011	60000	120000	5.8	10.2	0.1	0.0014
638/5-2Z	5	11	5	0.15	6.8	-	9.7	0.64	0.26	0.011	60000	120000	5.8	10.2	0.1	0.0016
619/5-2Z	5	13	4	0.20	7.6	-	11.4	0.88	0.34	0.014	53000	110000	6.4	11.6	0.2	0.0025
625-Z	5	16	5	0.30	8.4	-	13.3	1.14	0.38	0.016	48000	95000	7.4	13.6	0.3	0.0050
625-2Z	5	16	5	0.30	8.4	-	13.3	1.14	0.38	0.016	48000	95000	7.4	13.6	0.3	0.0050
635-Z	5	19	6	0.30	10.7	-	16.5	2.34	0.95	0.040	40000	80000	7.4	16.6	0.3	0.0090
635-2Z	5	19	6	0.30	10.7	-	16.5	2.34	0.95	0.040	40000	80000	7.4	16.6	0.3	0.0090
635-RS	5	19	6	0.30	10.7	-	16.5	2.34	0.95	0.040	24000	80000	7.4	16.6	0.3	0.0090
635-2RS	5	19	6	0.30	10.7	-	16.5	2.34	0.95	0.040	24000	80000	7.4	16.6	0.3	0.0090
628/6-2Z	6	13	5	0.15	7.9	-	11.7	0.88	0.35	0.015	53000	110000	6.8	12.2	0.1	0.0026
619/6-2Z	6	15	5	0.20	8.6	-	13.3	1.24	0.48	0.020	50000	100000	7.4	13.6	0.2	0.0039
626-Z	6	19	6	0.30	11.1	-	16.5	2.34	0.95	0.040	40000	80000	8.4	16.6	0.3	0.0084
626-2Z	6	19	6	0.30	11.1	-	16.5	2.34	0.95	0.040	40000	80000	8.4	16.6	0.3	0.0084
626-RS	6	19	6	0.30	-	9.5	16.5	2.34	0.95	0.040	24000	80000	8.4	16.6	0.3	0.0084



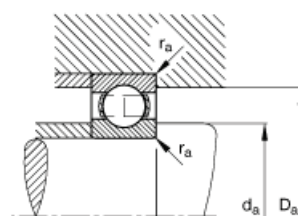
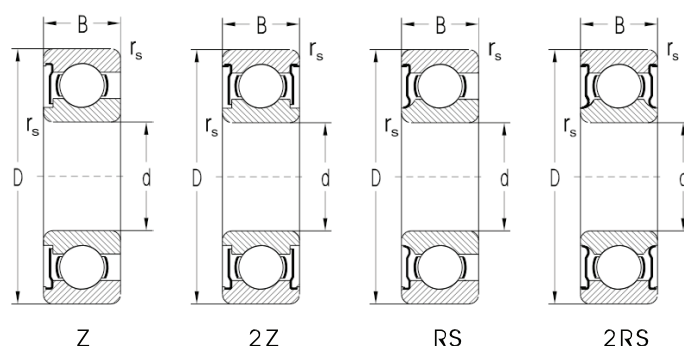
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
626-2RS	6	19	6	0.30	-	9.5	16.5	2.34	0.95	0.040	24000	80000	8.4	16.6	0.3	0.0084
628/7-2Z	7	14	5	0.15	8.9	-	12.6	0.956	0.40	0.017	50000	100000	7.8	13.2	0.1	0.0031
619/7-2Z	7	17	5	0.30	9.8	-	15.2	1.480	0.56	0.024	45000	90000	9.0	15.0	0.3	0.0049
607-Z	7	19	6	0.30	11.1	-	16.5	2.340	0.95	0.040	43000	85000	9.0	17.0	0.3	0.0075
607-2Z	7	19	6	0.30	11.1	-	16.5	2.340	0.95	0.040	43000	85000	9.0	17.0	0.3	0.0075
607-RS	7	19	6	0.30	-	9.5	16.5	2.340	0.95	0.040	24000	85000	9.0	17.0	0.3	0.0075
607-2RS	7	19	6	0.30	-	9.5	16.5	2.340	0.95	0.040	24000	85000	9.0	17.0	0.3	0.0075
627-Z	7	22	7	0.30	12.2	-	19.2	3.450	1.37	0.057	36000	70000	9.4	19.6	0.3	0.0130
627-2Z	7	22	7	0.30	12.2	-	19.2	3.450	1.37	0.057	36000	70000	9.4	19.6	0.3	0.0130
627-RS	7	22	7	0.30	-	10.6	19.2	3.450	1.37	0.057	22000	70000	9.4	19.6	0.3	0.0120
627-2RS	7	22	7	0.30	-	10.6	19.2	3.450	1.37	0.057	22000	70000	9.4	19.6	0.3	0.0120
628/8-2Z	8	16	5	0.20	10.1	-	14.5	1.330	0.57	0.024	45000	90000	9.4	14.6	0.2	0.0036
628/8-2RS	8	16	5	0.20	-	9.5	14.5	1.330	0.57	0.024	26000	90000	9.4	14.6	0.2	0.0036
638/8-2Z	8	16	6	0.20	10.1	-	14.5	1.330	0.57	0.024	45000	90000	9.4	14.6	0.2	0.0043
619/8-2Z	8	19	6	0.30	11.1	-	17.0	1.900	0.74	0.031	40000	80000	10.0	17.0	0.3	0.0071
619/8-2RS	8	19	6	0.30	-	10.4	17.0	1.900	0.74	0.031	24000	80000	10.0	17.0	0.3	0.0071
607/8-Z	8	19	6	0.30	11.1	-	16.5	2.210	0.95	0.040	43000	85000	10.0	17.0	0.3	0.0072
607/8-2Z	8	19	6	0.30	11.1	-	16.5	2.210	0.95	0.040	43000	85000	10.0	17.0	0.3	0.0072
608-Z	8	22	7	0.30	12.1	-	19.2	3.450	1.37	0.057	38000	75000	10.0	20.0	0.3	0.0120
608-2Z	8	22	7	0.30	12.1	-	19.2	3.450	1.37	0.057	38000	75000	10.0	20.0	0.3	0.0120
608-RS	8	22	7	0.30	-	10.6	19.2	3.450	1.37	0.057	22000	75000	10.0	20.0	0.3	0.0120
608-2RS	8	22	7	0.30	-	10.6	19.2	3.450	1.37	0.057	22000	75000	10.0	20.0	0.3	0.0120
630/8-2RS	8	22	11	0.3	11.8	-	19.0	3.450	1.37	0.057	22000	75000	10.0	20.0	0.3	0.0160
628-Z	8	24	8	0.30	14.5	-	20.6	3.900	1.66	0.071	32000	63000	10.4	21.6	0.3	0.0170
628-2Z	8	24	8	0.30	14.5	-	20.6	3.900	1.66	0.071	32000	63000	10.4	21.6	0.3	0.0170
628-RS	8	24	8	0.30	14.5	-	20.6	3.900	1.66	0.071	19000	63000	10.4	21.6	0.3	0.0170
628-2RS	8	24	8	0.30	14.5	-	20.6	3.900	1.66	0.071	19000	63000	10.4	21.6	0.3	0.0170
638-Z	8	28	9	0.30	14.8	-	22.6	4.620	1.96	0.083	30000	60000	10.4	25.6	0.3	0.0300
638-2Z	8	28	9	0.30	14.8	-	22.6	4.620	1.96	0.083	30000	60000	10.4	25.6	0.3	0.0300



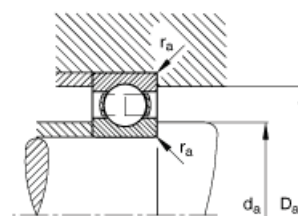
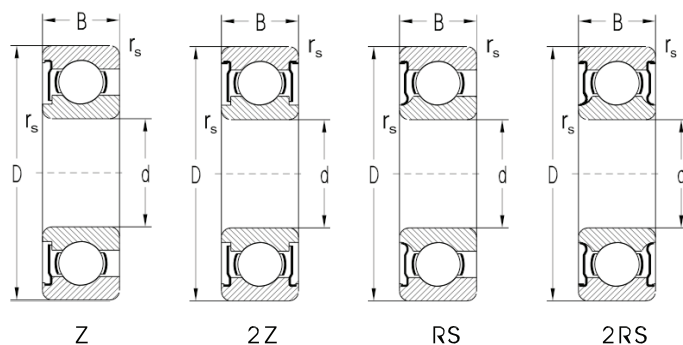
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
628/9-Z	9	17	5	0.20	11.1	-	15.5	1.430	0.64	0.027	43000	85000	10.4	15.6	0.2	0.0043
628/9-2Z	9	17	5	0.20	11.1	-	15.5	1.430	0.64	0.027	43000	85000	10.4	15.6	0.2	0.0043
628/9-2RS	9	17	5	0.20	-	10.6	15.5	1.430	0.64	0.027	24000	85000	10.4	15.6	0.2	0.0043
619/9-2Z	9	20	6	0.30	12.0	-	17.9	2.080	0.87	0.036	38000	80000	11.0	18.0	0.3	0.0076
609-Z	9	24	7	0.30	14.4	-	21.2	3.900	1.66	0.071	34000	70000	11.0	22.0	0.3	0.0140
609-2Z	9	24	7	0.30	14.4	-	21.2	3.900	1.66	0.071	34000	70000	11.0	22.0	0.3	0.0140
609-RS	9	24	7	0.30	-	12.8	21.2	3.900	1.66	0.071	19000	70000	11.0	22.0	0.3	0.0140
609-2RS	9	24	7	0.30	-	12.8	21.2	3.900	1.66	0.071	19000	70000	11.0	22.0	0.3	0.0140
629-Z	9	26	8	0.30	14.8	-	22.6	4.750	1.96	0.083	30000	60000	11.4	23.6	0.3	0.0200
629-2Z	9	26	8	0.30	14.8	-	22.6	4.750	1.96	0.083	30000	60000	11.4	23.6	0.3	0.0200
629-RS	9	26	8	0.30	-	13.0	22.6	4.750	1.96	0.083	19000	60000	11.4	23.6	0.3	0.0200
629-2RS	9	26	8	0.30	-	13.0	22.6	4.750	1.96	0.083	19000	60000	11.4	23.6	0.3	0.0200
61800-2Z	10	19	5	0.30	12.6	-	17.3	1.380	0.59	0.025	38000	80000	12.0	17.0	0.3	0.0055
61800-2RS	10	19	5	0.30	-	11.8	17.3	1.380	0.59	0.025	22000	80000	11.8	17.0	0.3	0.0055
61900-2Z	10	22	6	0.30	13.0	-	19.0	2.080	0.85	0.036	36000	75000	12.0	20.0	0.3	0.0100
61900-2RS	10	22	6	0.30	-	12.0	19.0	2.080	0.85	0.036	20000	70000	12.0	20.0	0.3	0.0100
6000-Z	10	26	8	0.30	14.8	-	22.6	4.750	1.96	0.083	34000	67000	12.0	24.0	0.3	0.0190
6000-2Z	10	26	8	0.30	14.8	-	22.6	4.750	1.96	0.083	34000	67000	12.0	24.0	0.3	0.0190
6000-RS	10	26	8	0.30	-	13.0	22.6	4.750	1.96	0.083	19000	67000	12.0	24.0	0.3	0.0190
6000-2RS	10	26	8	0.30	-	13.0	22.6	4.750	1.96	0.083	19000	67000	12.0	24.0	0.3	0.0190
63000-2RS	10	26	12	0.30	14.8	-	22.6	4.620	1.96	0.083	19000	67000	12.0	24.0	0.3	0.0250
16100-2Z	10	28	8	0.60	16.7	-	24.8	4.620	1.96	0.083	32000	63000	14.2	23.8	0.3	0.0220
6200-Z	10	30	9	0.60	17.0	-	24.8	5.400	2.36	0.100	28000	56000	14.2	25.8	0.6	0.0320
6200-2Z	10	30	9	0.60	17.0	-	24.8	5.400	2.36	0.100	28000	56000	14.2	25.8	0.6	0.0320
6200-RS	10	30	9	0.60	-	15.2	24.8	5.400	2.36	0.100	17000	56000	14.2	25.8	0.6	0.0320
6200-2RS	10	30	9	0.60	-	15.2	24.8	5.400	2.36	0.100	17000	56000	14.2	25.8	0.6	0.0320
62200-2RS	10	30	14	0.60	17.0	-	24.8	5.070	2.36	0.100	17000	56000	14.2	25.8	0.6	0.0400
6300-Z	10	35	11	0.60	17.5	-	28.7	8.520	3.40	0.143	26000	50000	14.2	30.8	0.6	0.0530
6300-2Z	10	35	11	0.60	17.5	-	28.7	8.520	3.40	0.143	26000	50000	14.2	30.8	0.6	0.0530



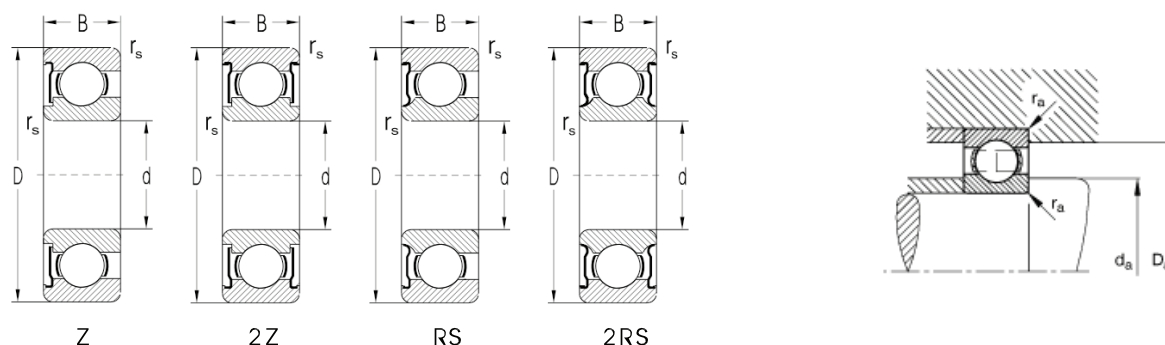
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
6300-RS	10	35	11	0.60	-	15.7	28.7	8.520	3.40	0.143	15000	50000	14.2	30.8	0.6	0.0530
6300-2RS	10	35	11	0.60	-	15.7	28.7	8.520	3.40	0.143	15000	50000	14.2	30.8	0.6	0.0530
62300-2RS	10	35	17	0.60	17.5	-	28.7	8.060	3.40	0.143	15000	50000	14.2	30.8	0.6	0.0600
61801-2Z	12	21	5	0.30	15.0	-	19.1	1.430	0.67	0.028	36000	70000	14.0	19.0	0.3	0.0063
61801-2RS	12	21	5	0.30	-	14.1	19.1	1.430	0.67	0.028	20000	70000	14.0	19.0	0.3	0.0063
61901-2Z	12	24	6	0.30	15.5	-	21.4	2.250	0.98	0.043	32000	67000	14.0	22.0	0.3	0.0110
61901-2RS	12	24	6	0.30	15.5	-	21.4	2.250	0.98	0.043	19000	67000	14.0	22.0	0.3	0.0110
6001-Z	12	28	8	0.30	17.0	-	24.8	5.400	2.36	0.100	30000	60000	14.0	26.0	0.3	0.0220
6001-2Z	12	28	8	0.30	17.0	-	24.8	5.400	2.36	0.100	30000	60000	14.0	26.0	0.3	0.0220
6001-RS	12	28	8	0.30	-	15.2	24.8	5.400	2.36	0.100	17000	60000	14.0	26.0	0.3	0.0220
6001-2RS	12	28	8	0.30	-	15.2	24.8	5.400	2.36	0.100	17000	60000	14.0	26.0	0.3	0.0220
63001-2RS	12	28	12	0.30	17.0	-	24.8	5.070	2.36	0.100	17000	60000	14.0	26.0	0.3	0.0290
16101-2Z	12	30	8	0.30	16.7	-	24.8	5.070	2.36	0.100	28000	56000	14.4	27.6	0.3	0.0230
16101-2RS	12	30	8	0.30	16.7	-	24.8	5.070	2.36	0.100	16000	56000	14.4	27.6	0.3	0.0230
6201-Z	12	32	10	0.60	18.5	-	27.4	7.280	3.10	0.132	26000	50000	16.2	27.8	0.6	0.0370
6201-2Z	12	32	10	0.60	18.5	-	27.4	7.280	3.10	0.132	26000	50000	16.2	27.8	0.6	0.0370
6201-RS	12	32	10	0.60	-	16.6	27.4	7.280	3.10	0.132	15000	50000	16.2	27.8	0.6	0.0370
6201-2RS	12	32	10	0.60	-	16.6	27.4	7.280	3.10	0.132	15000	50000	16.2	27.8	0.6	0.0370
62201-2RS	12	32	14	0.60	18.5	-	27.4	6.890	3.10	0.132	15000	50000	16.2	27.8	0.6	0.0450
6301-Z	12	37	12	1.00	19.5	-	31.5	10.100	4.15	0.176	22000	45000	17.6	31.4	1.0	0.0600
6301-2Z	12	37	12	1.00	19.5	-	31.5	10.100	4.15	0.176	22000	45000	17.6	31.4	1.0	0.0600
6301-RS	12	37	12	1.00	-	17.7	31.5	10.100	4.15	0.176	14000	45000	17.6	31.4	1.0	0.0600
6301-2RS	12	37	12	1.00	-	17.7	31.5	10.100	4.15	0.176	14000	45000	17.6	31.4	1.0	0.0600
62301-2RS	12	37	17	1.00	19.5	-	31.5	9.750	4.15	0.176	14000	45000	17.6	31.4	1.0	0.0700
61802-2Z	15	24	5	0.30	17.9	-	22.1	1.560	0.80	0.034	30000	60000	17.0	22.0	0.3	0.074
61802-2RS	15	24	5	0.30	17.9	-	22.1	1.560	0.80	0.034	17000	60000	17.0	22.0	0.3	0.0074
61902-2Z	15	28	7	0.30	18.4	-	25.8	4.360	2.24	0.095	28000	56000	17.0	26.0	0.3	0.0160
61902-2RS	15	28	7	0.030	-	17.4	25.8	4.360	2.24	0.095	16000	56000	17.0	26.0	0.3	0.0160
16002-Z	15	32	8	0.30	20.2	-	28.2	5.850	2.85	0.120	26000	50000	17.0	30.0	0.3	0.0250



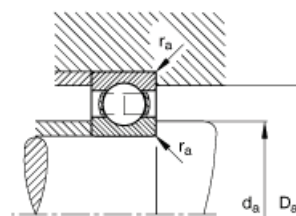
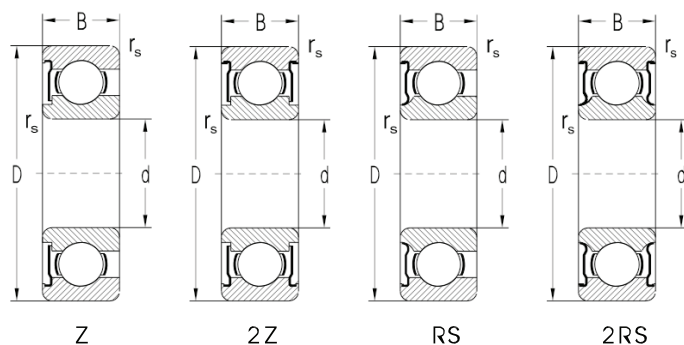
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
16002-2Z	15	32	8	0.30	20.2	-	28.2	5.850	2.85	0.120	26000	50000	17.0	30.0	0.3	0.0250
6002-Z	15	32	9	0.30	20.5	-	28.2	5.850	2.85	0.120	26000	50000	17.0	30.0	0.3	0.0300
6002-2Z	15	32	9	0.30	20.5	-	28.2	5.850	2.85	0.120	26000	50000	17.0	30.0	0.3	0.0300
6002-RS	15	32	9	0.30	-	18.7	28.2	5.850	2.85	0.120	14000	50000	17.0	30.0	0.3	0.0300
6002-2RS	15	32	9	0.30	-	18.7	28.2	5.850	2.85	0.120	14000	50000	17.0	30.0	0.3	0.0300
63002-2RS	15	32	13	0.30	20.5	-	28.2	5.590	2.85	0.120	14000	50000	17.0	30.0	0.3	0.0390
6202-Z	15	35	11	0.60	21.7	-	30.4	8.060	3.75	0.160	22000	43000	19.2	30.8	0.6	0.0450
6202-2Z	15	35	11	0.60	21.7	-	30.4	8.060	3.75	0.160	22000	43000	19.2	30.8	0.6	0.0450
6202-RS	15	35	11	0.60	-	19.4	30.4	8.060	3.75	0.160	13000	43000	19.2	30.8	0.6	0.0450
6202-2RS	15	35	11	0.60	-	19.4	30.4	8.060	3.75	0.160	13000	43000	19.2	30.8	0.6	0.0450
62202-2RS	15	35	14	0.60	21.7	-	30.4	7.800	3.75	0.160	13000	43000	19.2	30.8	0.6	0.0540
6302-Z	15	42	13	1.00	23.7	-	36.3	11.900	5.40	0.228	19000	38000	20.6	36.4	1.0	0.0820
6302-2Z	15	42	13	1.00	23.7	-	36.3	11.900	5.40	0.228	19000	38000	20.6	36.4	1.0	0.0820
6302-RS	15	42	13	1.00	-	21.1	36.3	11.900	5.40	0.228	12000	38000	20.6	36.4	1.0	0.0820
6302-2RS	15	42	13	1.00	-	21.1	36.3	11.900	5.40	0.228	12000	38000	20.6	36.4	1.0	0.0820
62302-2RS	15	42	17	1.00	23.7	-	36.3	11.400	5.40	0.228	12000	38000	20.6	36.4	1.0	0.1100
61803-2Z	17	26	5	0.30	20.2	-	24.1	1.680	0.93	0.039	28000	56000	19.0	24.0	0.3	0.0082
61803-2RS	17	26	5	0.30	-	19.3	24.1	1.680	0.93	0.039	16000	56000	19.0	24.0	0.3	0.0082
61903-2Z	17	30	7	0.30	20.4	-	27.8	4.620	2.55	0.108	26000	50000	19.0	28.0	0.3	0.0180
61903-2RS	17	30	7	0.30	-	19.4	27.8	4.620	2.55	0.108	14000	50000	19.0	28.0	0.3	0.0180
16003-2Z	17	25	8	0.30	22.7	-	31.2	6.370	3.25	0.137	22000	45000	19.0	33.0	0.3	0.0320
6003-Z	17	35	10	0.30	23.0	-	31.4	6.370	3.25	0.137	22000	45000	19.0	33.0	0.3	0.0390
6003-2Z	17	35	10	0.30	23.0	-	31.4	6.370	3.25	0.137	22000	45000	19.0	33.0	0.3	0.0390
6003-RS	17	35	10	0.30	-	20.7	31.4	6.370	3.25	0.137	13000	45000	19.0	33.0	0.3	0.0390
6003-2RS	17	35	10	0.30	-	20.7	31.4	6.370	3.25	0.137	13000	45000	19.0	33.0	0.3	0.0390
63003-2RS	17	35	14	0.30	23.0	-	31.4	6.050	3.25	0.137	13000	45000	19.0	33.0	0.3	0.0520
6203-Z	17	40	12	0.60	24.5	-	35.0	9.950	4.75	0.200	19000	38000	21.2	35.8	0.6	0.0650
6203-2Z	17	40	12	0.60	24.5	-	35.0	9.950	4.75	0.200	19000	38000	21.2	35.8	0.6	0.0650
6203-RS	17	40	12	0.60	-	22.2	35.0	9.950	4.75	0.200	12000	38000	21.2	35.8	0.6	0.0650



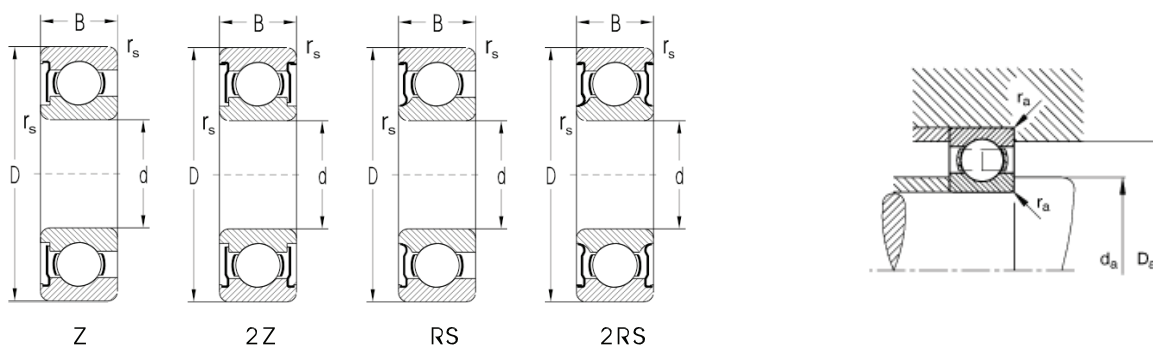
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
6203-2RS	17	40	12	0.60	-	22.2	35.0	9.950	4.75	0.200	12000	38000	21.2	35.8	0.6	0.0650
62203-2RS	17	40	16	0.60	24.5	-	35.0	9.560	4.75	0.200	12000	38000	21.2	35.8	0.6	0.0830
6303-Z	17	47	14	1.00	26.5	-	39.7	14.300	6.55	0.275	17000	34000	22.6	41.4	1.0	0.1200
6303-2Z	17	47	14	1.00	26.5	-	39.7	14.300	6.55	0.275	17000	34000	22.6	41.4	1.0	0.1200
6303-RS	17	47	14	1.00	-	24.0	39.7	14.300	6.55	0.275	11000	34000	22.6	41.4	1.0	0.1200
6303-2RS	17	47	14	1.00	-	24.0	39.7	14.300	6.55	0.275	11000	34000	22.6	41.4	1.0	0.1200
62303-2RS	17	47	19	1.00	26.5	-	39.7	13.500	6.55	0.275	11000	34000	22.6	41.1	1.0	0.1500
61804-2Z	20	32	7	0.30	24.0	-	29.5	4.030	2.32	0.104	22000	45000	22.0	30.0	0.3	0.0180
61804-2RS	20	32	7	0.30	-	22.6	29.5	4.030	2.32	0.104	13000	45000	22.0	30.0	0.3	0.0180
61904-2Z	20	37	9	0.30	25.6	-	32.8	6.370	3.65	0.156	20000	43000	22.0	35.0	0.3	0.0380
61904-2RS	20	37	9	0.30	-	24.2	32.8	6.370	3.65	0.156	12000	43000	22.0	35.0	0.3	0.0380
6004-Z	20	42	12	0.60	27.2	-	37.2	9.950	5.00	0.212	19000	38000	23.2	38.8	0.6	0.0690
6004-2Z	20	42	12	0.60	27.2	-	37.2	9.950	5.00	0.212	19000	38000	23.2	38.8	0.6	0.0690
6004-RS	20	42	12	0.60	-	24.9	37.2	9.950	5.00	0.212	11000	38000	23.2	38.8	0.6	0.0690
6004-2RS	20	42	12	0.60	-	24.9	37.2	9.950	5.00	0.212	11000	38000	23.2	38.8	0.6	0.0690
63004-2RS	20	42	16	0.60	27.2	-	37.2	9.360	5.00	0.212	11000	38000	23.2	38.8	0.6	0.0860
6204-Z	20	47	14	1.00	28.8	-	40.6	13.500	6.55	0.280	17000	32000	25.6	41.4	1.00	0.1100
6204-2Z	20	47	14	1.00	28.8	-	40.6	13.500	6.55	0.280	17000	32000	25.6	41.4	1.00	0.1100
6204-RS	20	47	14	1.00	-	26.3	40.6	13.500	6.55	0.280	10000	32000	25.6	41.4	1.0	0.1100
6204-2RS	20	47	14	1.00	-	26.3	40.6	13.500	6.55	0.280	10000	32000	25.6	41.4	1.0	0.1100
62204-2RS	20	47	18	1.00	28.8	-	40.6	12.700	6.55	0.280	10000	32000	25.6	41.4	1.0	0.1300
6304-Z	20	52	15	1.10	30.4	-	44.8	16.800	7.80	0.335	15000	30000	27.0	45.0	1.0	0.1400
6304-2Z	20	52	15	1.10	30.4	-	44.8	16.800	7.80	0.335	15000	30000	27.0	45.0	1.0	0.1400
6304-RS	20	52	15	1.10	-	27.2	44.8	16.800	7.80	0.335	9500	30000	27.0	45.0	1.0	0.1400
6304-2RS	20	52	15	1.10	-	27.2	44.8	16.800	7.80	0.335	9500	30000	27.0	45.0	1.0	0.1400
62304-2RS	20	52	21	1.10	30.4	-	44.8	15.900	7.80	0.335	9500	30000	27.0	45.0	1.0	0.2000
62/22-2RS	22	50	14	1.00	32.2	-	44.0	14.000	7.65	0.325	9000	30000	27.6	44.4	1.0	0.1200
61805-2Z	25	37	7	0.30	28.5	-	34.3	4.360	2.60	0.125	19000	38000	27.0	35.0	0.3	0.0220
61805-2RS	25	37	7	0.30	-	27.4	34.3	4.360	2.60	0.125	11000	38000	27.0	35.0	0.3	0.0220



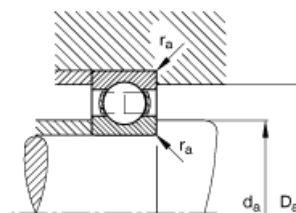
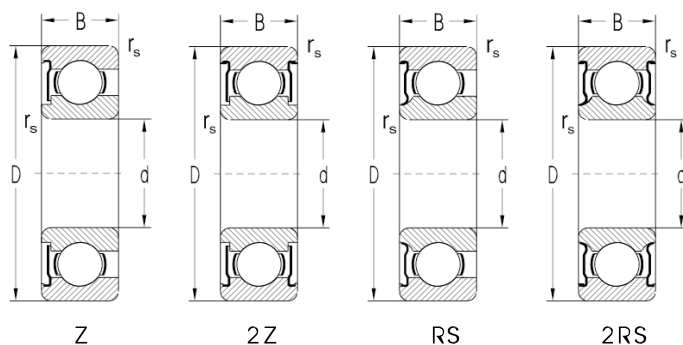
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
61905-2Z	25	42	9	0.30	30.2	-	37.8	7.020	4.30	0.193	18000	36000	27.0	40.0	0.3	0.0450
61905-2RS	25	42	9	0.30	-	29.2	37.8	7.020	4.30	0.193	10000	36000	27.0	40.0	0.3	0.0450
6005-Z	25	47	12	0.60	32.0	-	42.2	11.900	6.55	0.275	16000	32000	28.2	43.8	0.6	0.0800
6005-2Z	25	47	12	0.60	32.0	-	42.2	11.900	6.55	0.275	16000	32000	28.2	43.8	0.6	0.0800
6005-RS	25	47	12	0.60	-	29.7	42.2	11.900	6.55	0.275	9500	32000	28.2	43.8	0.6	0.0800
6005-2RS	25	47	12	0.60	-	29.7	42.2	11.900	6.55	0.275	9500	32000	28.2	43.8	0.6	0.0800
63005-2RS	25	47	16	0.60	32.0	-	42.2	11.200	6.55	0.275	9500	32000	29.2	43.8	0.6	0.1000
6205-Z	25	52	15	1.00	34.4	-	46.3	14.800	7.80	0.335	14000	28000	30.6	46.4	1.0	0.1300
6205-2Z	25	52	15	1.00	34.4	-	46.3	14.800	7.80	0.335	14000	28000	30.6	46.4	1.0	0.1300
6205-RS	25	52	15	1.00	-	31.8	46.3	14.800	7.800	0.335	8500	28000	30.6	46.4	1.0	0.1300
6205-2RS	25	52	15	1.00	-	31.8	46.3	14.800	7.800	0.335	8500	28000	30.6	46.4	1.0	0.1300
62205-2RS	25	52	18	1.00	34.4	-	46.3	14.000	7.800	0.335	8500	28000	30.6	46.4	1.0	0.1500
6305-Z	25	62	17	1.10	36.6	-	52.7	23.400	11.60	0.490	13000	24000	32.0	55.0	1.0	0.2300
6305-2Z	25	62	17	1.10	36.6	-	52.7	23.400	11.60	0.490	13000	24000	32.0	55.0	1.0	0.2300
6305-RS	25	62	17	1.10	36.6	-	52.7	23.400	11.60	0.490	7500	24000	32.0	55.0	1.0	0.2300
6305-2RS	25	62	17	1.10	36.6	-	52.7	23.400	11.60	0.490	7500	24000	32.0	55.0	1.0	0.2300
62305-2RS	25	62	24	1.10	36.6	-	52.7	22.500	11.60	0.490	7500	24000	32.0	55.0	1.0	0.3200
61806-2Z	30	42	7	0.30	33.7	-	39.5	4.490	2.90	0.146	16000	32000	32.0	40.0	0.3	0.0270
61806-2RS	30	42	7	0.30	-	32.6	39.5	4.490	2.90	0.146	9500	32000	32.0	40.0	0.3	0.0270
61906-2Z	30	47	9	0.30	35.2	-	42.8	7.280	4.55	0.212	15000	30000	32.0	45.0	0.3	0.0510
61906-2RS	30	47	9	0.30	-	34.2	42.8	7.280	4.55	0.212	8500	30000	32.0	45.0	0.3	0.0510
6006-Z	30	55	13	1.00	38.2	-	49.0	13.800	8.30	0.355	14000	28000	34.6	50.4	1.0	0.1200
6006-2Z	30	55	13	1.00	38.2	-	49.0	13.800	8.30	0.355	14000	28000	34.6	50.4	1.0	0.1200
6006-RS	30	55	13	1.00	38.2	-	49.0	13.800	8.30	0.355	8000	28000	34.6	50.4	1.0	0.1200
6006-2RS	30	55	13	1.00	38.2	-	49.0	13.800	8.30	0.355	8000	28000	34.6	50.4	1.0	0.1200
63006-2RS	30	55	19	1.00	38.2	-	49.0	13.300	8.30	0.355	8000	28000	34.6	50.4	1.0	0.1600
6206-Z	30	62	16	1.00	40.4	-	54.1	20.300	11.20	0.475	12000	24000	35.6	56.4	1.0	0.2000
6206-2Z	30	62	16	1.00	40.4	-	54.1	20.300	11.20	0.475	12000	24000	35.6	56.4	1.0	0.2000
6206-RS	30	62	16	1.00	40.4	-	54.1	20.300	11.20	0.475	7500	24000	35.6	56.4	1.0	0.2000



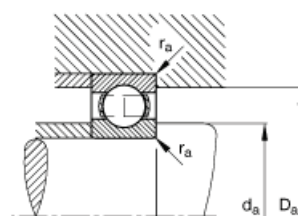
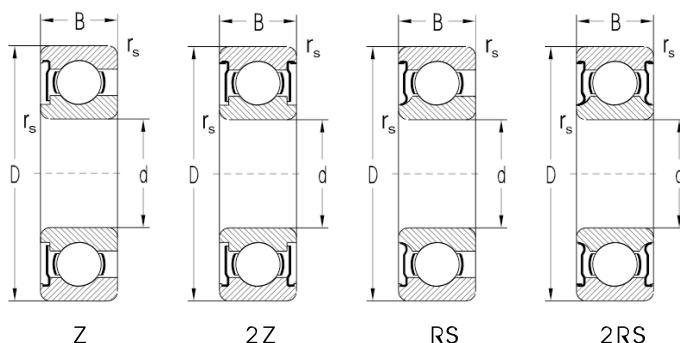
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
6206-2RS	30	62	16	1.00	40.4	-	54.1	20.300	11.20	0.475	7500	24000	35.6	56.4	1.0	0.2000
62206-2RS	30	62	20	1.00	40.4	-	54.1	19.500	11.20	0.475	7500	24000	35.6	56.4	1.0	0.2400
6306-Z	30	72	19	1.10	44.6	-	61.9	29.600	16.00	0.670	11000	20000	37.0	65.0	1.0	0.3500
6306-2Z	30	72	19	1.10	44.6	-	61.9	29.600	16.00	0.670	11000	20000	37.0	65.0	1.0	0.3500
6306-RS	30	72	19	1.10	44.6	-	61.9	29.600	16.00	0.670	6300	20000	37.0	65.0	1.0	0.3500
6306-2RS	30	72	19	1.10	44.6	-	61.9	29.600	16.00	0.670	6300	20000	37.0	65.0	1.0	0.3500
62306-2RS	30	72	27	1.10	44.6	-	61.9	28.100	16.00	0.670	6300	20000	37.0	65.0	1.0	0.4800
61807-2Z	35	47	7	0.30	38.7	-	44.4	4.750	3.20	0.166	14000	28000	37.0	45.0	0.3	0.0300
61807-2RS	35	47	7	0.30	-	37.6	44.4	4.750	3.20	0.166	8000	28000	37.0	45.0	0.3	0.0300
61907-2Z	35	55	10	0.60	41.6	-	50.5	9.560	6.80	0.290	13000	26000	38.2	51.8	0.6	0.0800
61907-2RS	35	55	10	0.60	41.6	-	50.5	9.560	6.80	0.290	7500	26000	38.2	51.8	0.6	0.0800
6007-Z	35	62	14	1.00	43.8	-	55.6	16.800	10.20	0.440	12000	24000	39.6	57.4	1.0	0.1600
6007-2Z	35	62	14	1.00	43.8	-	55.6	16.800	10.20	0.440	12000	24000	39.6	57.4	1.0	0.1600
6007-RS	35	62	14	1.00	43.8	-	55.6	16.800	10.20	0.440	7000	24000	39.6	57.4	1.0	0.1600
6007-2RS	35	62	14	1.00	43.8	-	55.6	16.800	10.20	0.440	7000	24000	39.6	57.4	1.0	0.1600
63007-2RS	35	62	20	1.00	43.8	-	55.6	15.900	10.20	0.440	7000	24000	39.6	57.4	1.0	0.2100
6207-Z	35	72	17	1.10	46.9	-	62.7	27.000	15.30	0.655	10000	20000	42.0	65.0	1.0	0.2900
6207-2Z	35	72	17	1.10	46.9	-	62.7	27.000	15.30	0.655	10000	20000	42.0	65.0	1.0	0.2900
6207-RS	35	72	17	1.10	46.9	-	62.7	27.000	15.30	0.655	6300	20000	42.0	65.0	1.0	0.2900
6207-2RS	35	72	17	1.10	46.9	-	62.7	27.000	15.30	0.655	6300	20000	42.0	65.0	1.0	0.2900
62204-2RS	35	72	23	1.10	46.9	-	62.7	25.500	15.30	0.655	6300	20000	42.0	65.0	1.0	0.3700
6307-Z	35	80	21	1.50	49.6	-	69.2	35.100	19.00	0.815	9500	19000	44.0	71.0	1.5	0.4600
6307-2Z	35	80	21	1.50	49.6	-	69.2	35.100	19.00	0.815	9500	19000	44.0	71.0	1.5	0.4600
6307-RS	35	80	21	1.50	49.6	-	69.2	35.100	19.00	0.815	6000	19000	44.0	71.0	1.5	0.4600
6307-2RS	35	80	21	1.50	49.6	-	69.2	35.100	19.00	0.815	6000	19000	44.0	71.0	1.5	0.4600
62307-2RS	35	80	31	1.50	49.6	-	69.2	33.200	19.00	0.815	6000	19000	44.0	71.0	1.5	0.6600
61808-2Z	40	52	7	0.30	43.7	-	49.6	4.940	3.45	0.186	13000	26000	42.0	50.0	0.3	0.0340
61808-2RS	40	52	7	0.30	-	42.6	49.6	4.940	3.45	0.186	7500	26000	42.0	50.0	0.3	0.0340
61908-2Z	40	62	12	0.60	46.9	-	57.3	13.800	10.00	0.425	12000	24000	43.2	58.8	0.6	0.1200



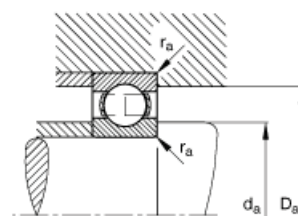
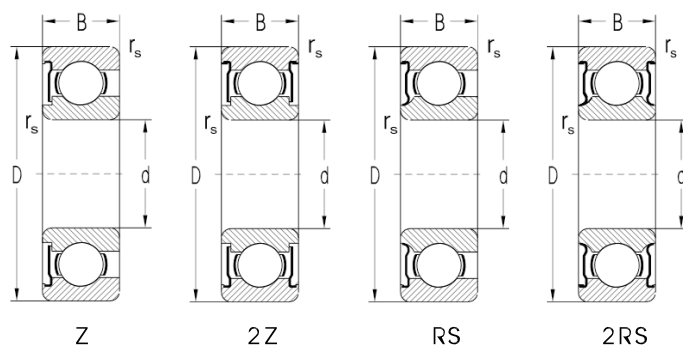
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
61908-2RS	40	62	12	0.60	46.9	-	57.3	13.800	10.00	0.425	6700	24000	43.2	58.8	0.6	0.1200
6008-Z	40	68	15	1.00	49.3	-	61.1	17.800	11.60	0.490	11000	22000	44.6	63.4	1.0	0.1900
6008-2Z	40	68	15	1.00	49.3	-	61.1	17.800	11.60	0.490	11000	22000	44.6	63.4	1.0	0.1900
6008-RS	40	68	15	1.00	49.3	-	61.1	17.800	11.60	0.490	6300	22000	44.6	63.4	1.0	0.1900
6008-2RS	40	68	15	1.00	49.3	-	61.1	17.800	11.60	0.490	6300	22000	44.6	63.4	1.0	0.1900
63008-2RS	40	68	21	1.00	49.3	-	61.1	16.800	11.600	0.490	6300	22000	44.6	63.4	1.0	0.2600
6208-Z	40	80	18	1.10	52.6	-	69.8	32.500	19.00	0.800	9000	18000	47.0	73.0	1.0	0.3700
6208-2Z	40	80	18	1.10	52.6	-	69.8	32.500	19.00	0.800	9000	18000	47.0	73.0	1.0	0.3700
6208-RS	40	80	18	1.10	52.6	-	69.8	32.500	19.00	0.800	5600	18000	47.0	73.0	1.0	0.3700
6208-2RS	40	80	18	1.10	52.6	-	69.8	32.500	19.00	0.800	5600	18000	47.0	73.0	1.0	0.3700
62208-2RS	40	80	23	1.10	52.6	-	69.8	30.700	19.00	0.800	5600	18000	47.0	73.0	1.0	0.4400
6308-Z	40	90	23	1.50	56.1	-	77.7	42.300	24.00	1.020	8500	17000	49.0	81.0	1.5	0.6300
6308-2Z	40	90	23	1.50	56.1	-	77.7	42.300	24.00	1.020	8500	17000	49.0	81.0	1.5	0.6300
6308-RS	40	90	23	1.50	56.1	-	77.7	42.300	24.00	1.020	5000	17000	49.0	81.0	1.5	0.6300
6308-2RS	40	90	23	1.50	56.1	-	77.7	42.300	24.00	1.020	5000	17000	49.0	81.0	1.5	0.6300
62308-2RS	40	90	33	1.50	56.1	-	77.7	41.000	24.00	1.020	5000	17000	49.0	81.0	1.5	0.8900
61809-2Z	45	58	7	0.30	49.1	-	55.4	6.630	6.10	0.260	11000	22000	47.0	56.0	0.3	0.0400
61809-2RS	45	58	7	0.30	49.1	-	55.4	6.630	6.10	0.260	6700	22000	47.0	56.0	0.3	0.0400
61909-2Z	45	68	12	0.60	52.4	-	62.8	14.000	10.80	0.465	10000	20000	48.2	64.8	0.6	0.1400
61909-2RS	45	68	12	0.60	52.4	-	62.8	14.000	10.80	0.465	6000	20000	48.2	64.8	0.6	0.1400
6009-Z	45	75	16	1.00	54.8	-	67.8	22.100	14.60	0.640	10000	20000	50.8	69.2	1.0	0.2500
6009-2Z	45	75	16	1.00	54.8	-	67.8	22.100	14.60	0.640	10000	20000	50.8	69.2	1.0	0.2500
6009-RS	45	75	16	1.00	54.8	-	67.8	22.100	14.60	0.640	5600	20000	50.8	69.2	1.0	0.2500
6009-2RS	45	75	16	1.00	54.8	-	67.8	22.100	14.60	0.640	5600	20000	50.8	69.2	1.0	0.2500
63009-2RS	45	75	23	1.00	54.8	-	67.8	20.800	14.60	0.640	5600	20000	50.8	69.2	1.0	0.3400
6209-Z	45	85	19	1.10	57.6	-	75.2	35.100	21.60	0.915	8500	17000	52.0	78.0	1.0	0.4100
6209-2Z	45	85	19	1.10	57.6	-	75.2	35.100	21.60	0.915	8500	17000	52.0	78.0	1.0	0.4100
6209-RS	45	85	19	1.10	57.6	-	75.2	35.100	21.600	0.915	5000	17000	52.0	78.0	1.0	0.4100
6209-2RS	45	85	19	1.10	57.6	-	75.2	35.100	21.600	0.915	5000	17000	52.0	78.0	1.0	0.4100



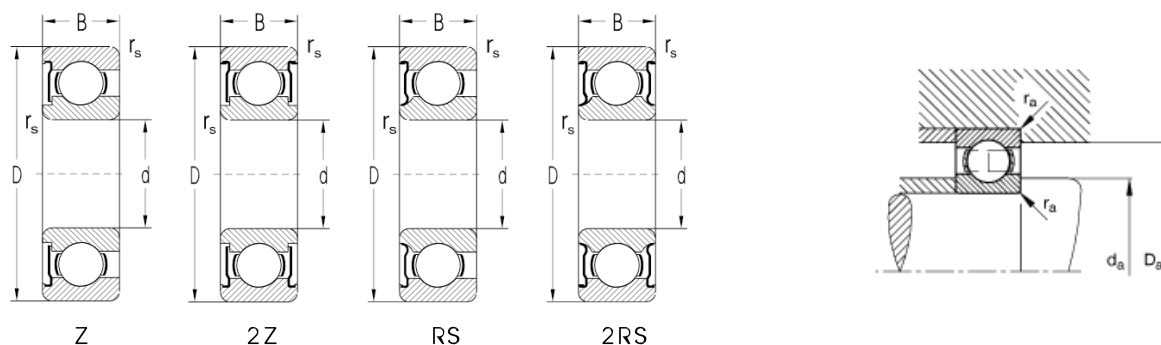
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
62209-2RS	45	85	23	1.10	57.6	-	75.2	33.200	21.60	0.915	5000	17000	52.0	78.0	1.0	0.4800
6309-Z	45	100	25	1.50	62.2	-	86.7	55.300	31.50	1.340	7500	15000	54.0	91.0	1.5	0.8300
6309-2Z	45	100	25	1.50	62.2	-	86.7	55.300	31.50	1.340	7500	15000	54.0	91.0	1.5	0.8300
6309-RS	45	100	25	1.50	62.2	-	86.7	55.300	31.50	1.340	4500	15000	54.0	91.0	1.5	0.8300
6300-2RS	45	100	25	1.50	62.2	-	86.7	55.300	31.50	1.340	4500	15000	54.0	91.0	1.5	0.8300
62309-2RS	45	100	36	1.50	62.2	-	86.7	52.700	31.50	1.340	4500	15000	54.0	91.0	1.5	1.1500
61810-2Z	50	65	7	0.30	55.1	-	61.8	6.760	6.80	0.285	10000	20000	52.0	63.0	0.3	0.0520
61810-2RS	50	65	7	0.30	55.1	-	61.8	6.760	6.80	0.285	6000	20000	52.0	63.0	0.3	0.0520
61910-2Z	50	72	12	0.60	56.9	-	67.3	14.600	11.80	0.500	9500	19000	53.2	68.8	0.6	0.1400
61910-2RS	50	72	12	0.60	56.9	-	67.3	14.600	11.80	0.500	5600	19000	53.2	68.8	0.6	0.1400
6010-Z	50	80	16	1.00	59.8	-	72.8	22.900	16.00	0.710	9000	18000	54.6	75.4	1.0	0.2600
6010-2Z	50	80	16	1.00	59.8	-	72.8	22.900	16.00	0.710	9000	18000	54.6	75.4	1.0	0.2600
6010-RS	50	80	16	1.00	59.8	-	72.8	22.900	16.00	0.710	5000	18000	54.6	75.4	1.0	0.2600
6010-2RS	50	80	16	1.00	59.8	-	72.8	22.900	16.00	0.710	5000	18000	54.6	75.4	1.0	0.2600
63010-2RS	50	80	23	1.00	59.8	-	72.8	21.600	16.00	0.710	5000	18000	54.6	75.4	1.0	0.3700
6210-Z	50	90	20	1.10	62.5	-	81.6	37.100	23.20	0.980	8000	15000	57.0	83.0	1.0	0.4600
6210-2Z	50	90	20	1.10	62.5	-	81.6	37.100	23.20	0.980	8000	15000	57.0	83.0	1.0	0.4600
6210-RS	50	90	20	1.10	62.5	-	81.6	37.100	23.20	0.980	4800	15000	57.0	83.0	1.0	0.4600
6210-2RS	50	90	20	1.10	62.5	-	81.6	37.100	23.20	0.980	4800	15000	57.0	83.0	1.0	0.4600
62210-2RS	50	90	23	1.10	62.5	-	81.6	35.100	23.20	0.980	4800	15000	57.0	83.0	1.0	0.5200
6310-Z	50	110	27	2.00	68.8	-	95.2	65.000	38.00	1.600	6700	13000	61.0	99.0	2.0	1.0500
6310-2Z	50	110	27	2.00	68.8	-	95.2	65.000	38.00	1.600	6700	13000	61.0	99.0	2.0	1.0500
6310-RS	50	110	27	2.00	68.8	-	95.2	65.000	38.00	1.600	4300	13000	61.0	99.0	2.0	1.0500
6310-2RS	50	110	27	2.00	68.8	-	95.2	65.000	38.00	1.600	4300	13000	61.0	99.0	2.0	1.0500
62310-2RS	50	110	40	2.00	68.8	-	95.2	61.800	38.00	1.600	4300	13000	61.0	99.0	2.0	1.5500
61811-2Z	55	72	9	0.30	60.6	-	68.6	9.040	8.80	0.375	9500	19000	57.0	70.0	0.3	0.0830
61811-2RS	55	72	9	0.30	60.6	-	68.6	9.040	8.80	0.375	5300	19000	57.0	70.0	0.3	0.0830
61911-2Z	55	80	13	1.00	63.2	-	74.2	16.500	14.00	0.600	8500	17000	59.6	75.4	1.0	0.1900
61911-2RS	55	80	13	1.00	63.2	-	74.2	16.500	14.00	0.600	5000	17000	59.6	75.4	1.0	0.1900



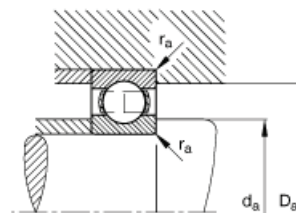
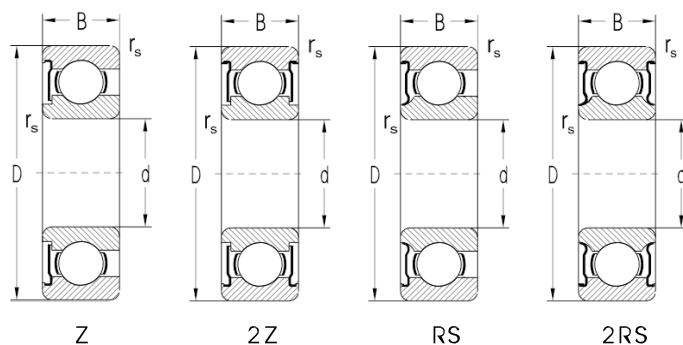
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d_a mm	D_a mm	r_a mm	
6011-Z	55	90	18	1.10	66.3	-	81.5	29.600	21.20	0.900	8000	16000	61.0	84.0	1.0	0.390
6011-2Z	55	90	18	1.10	66.3	-	81.5	29.600	21.20	0.900	8000	16000	61.0	84.0	1.0	0.390
6011-RS	55	90	18	1.10	66.3	-	81.5	29.600	21.20	0.900	4500	16000	61.0	84.0	1.0	0.390
6011-2RS	55	90	18	1.10	66.3	-	81.5	29.600	21.20	0.900	4500	16000	61.0	84.0	1.0	0.390
6211-Z	55	100	21	1.50	69.1	-	89.4	46.200	29.00	1.250	7000	14000	64.0	91.0	1.5	0.610
6211-2Z	55	100	21	1.50	69.1	-	89.4	46.200	29.00	1.250	7000	14000	64.0	91.0	1.5	0.610
6211-RS	55	100	21	1.50	69.1	-	89.4	46.200	29.00	1.250	4300	14000	64.0	91.0	1.5	0.610
6211-2RS	55	100	21	1.50	69.1	-	89.4	46.200	29.00	1.250	4300	14000	64.0	91.0	1.5	0.610
62211-2RS	55	100	25	1.50	69.1	-	89.4	43.600	29.00	1.250	4300	14000	64.0	91.0	1.5	0.700
6311-Z	55	120	29	2.00	75.3	-	104.0	74.100	45.00	1.900	6300	12000	66.0	109.0	2.0	1.350
6311-2Z	55	120	29	2.00	75.3	-	104.0	74.100	45.00	1.900	6300	12000	66.0	109.0	2.0	1.350
6311-RS	55	120	29	2.00	75.3	-	104.0	74.100	45.00	1.900	3800	12000	66.0	109.0	2.0	1.350
6311-2RS	55	120	29	2.00	75.3	-	104.0	74.100	45.00	1.900	3800	12000	66.0	109.0	2.0	1.350
62311-2RS	55	120	43	2.00	75.3	-	104.0	71.500	45.00	1.900	3800	12000	66.0	109.0	2.0	1.950
61812-2Z	60	78	10	0.30	65.6	-	74.5	11.900	11.40	0.490	8500	17000	62.0	76.0	0.3	0.110
61816-2RS	60	78	10	0.30	65.6	-	74.5	11.900	11.40	0.490	4800	17000	62.0	76.0	0.3	0.110
61912-2Z	60	85	13	1.00	68.2	-	79.2	16.500	14.30	0.600	8000	16000	64.6	80.4	1.0	0.200
61912-2RS	60	85	13	1.00	68.2	-	79.2	16.500	14.30	0.600	4500	16000	64.6	80.4	1.0	0.200
6012-Z	60	95	18	1.10	71.3	-	86.5	30.700	23.20	0.980	7500	15000	66.0	89.0	1.0	0.420
6012-2Z	60	95	18	1.10	71.3	-	86.5	30.700	23.20	0.980	7500	15000	66.0	89.0	1.0	0.420
6012-RS	60	95	18	1.10	71.3	-	86.5	30.700	23.20	0.980	4300	15000	66.0	89.0	1.0	0.420
6012-2RS	60	95	18	1.10	71.3	-	86.5	30.700	23.20	0.980	4300	15000	66.0	89.0	1.0	0.420
6212-Z	60	110	22	1.50	75.3	-	98.0	55.300	36.00	1.530	6300	13000	69.0	101.0	1.5	0.780
6212-2Z	60	110	22	1.50	75.3	-	98.0	55.300	36.00	1.530	6300	13000	69.0	101.0	1.5	0.780
6212-RS	60	110	22	1.50	75.3	-	98.0	55.300	36.00	1.530	4000	13000	69.0	101.0	1.5	0.780
6212-2RS	60	110	22	1.50	75.3	-	98.0	55.300	36.00	1.530	4000	13000	69.0	101.0	1.5	0.780
62212-2RS	60	110	28	1.50	75.3	-	98.0	52.700	36.00	1.530	4000	13000	69.0	101.0	1.5	0.970
6312-Z	60	130	31	2.10	81.9	-	112.0	85.2	52.0	2.200	5600	11000	72.0	118.0	2.0	1.700
6312-2Z	60	130	31	2.10	81.9	-	112.0	85.2	52.0	2.200	5600	11000	72.0	118.0	2.0	1.700



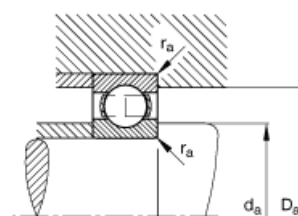
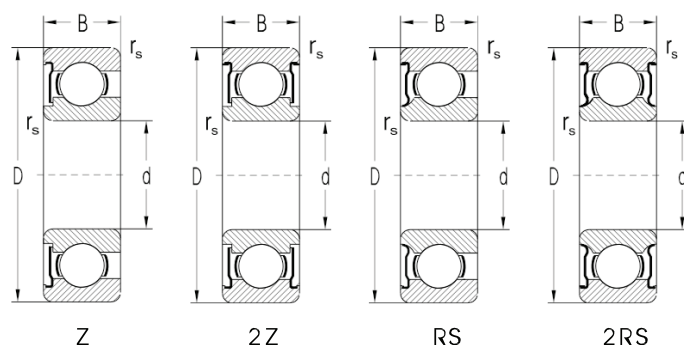
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
6312-RS	60	130	31	2.10	81.9	-	112.0	85.200	52.00	2.200	3400	11000	72.0	118.0	2.0	1.700
6312-2RS	60	130	31	2.10	81.9	-	112.0	85.200	52.00	2.200	3400	11000	72.0	118.0	2.0	1.700
62312-2RS	60	130	46	2.10	81.9	-	112.0	81.900	52.00	2.200	3400	11000	72.0	118.0	2.0	2.500
61813-2Z	65	85	10	0.60	71.6	-	80.5	12.400	12.70	0.540	8000	16000	68.2	81.8	0.6	0.130
61813-2RS	65	85	10	0.60	71.6	-	80.5	12.400	12.70	0.540	4500	16000	68.2	81.8	0.6	0.130
61913-2Z	65	90	13	1.00	73.2	-	84.2	17.400	16.00	0.680	7500	15000	69.6	85.4	1.0	0.220
61913-2RS	65	90	13	1.00	-	73.2	84.2	17.400	16.00	0.680	4300	15000	69.6	85.4	1.0	0.220
6013-Z	65	100	18	1.10	76.3	-	91.5	31.900	25.00	1.060	7000	14000	71.0	94.0	1.0	0.440
6013-2Z	65	100	18	1.10	76.3	-	91.5	31.900	25.00	1.060	7000	14000	71.0	94.0	1.0	0.440
6013-RS	65	100	18	1.10	76.3	-	91.5	31.900	25.00	1.060	4000	14000	71.0	94.0	1.0	0.440
6013-2RS	65	100	18	1.10	76.3	-	91.5	31.900	25.00	1.060	4000	14000	71.0	94.0	1.0	0.440
6213-Z	65	100	23	1.50	83.3	-	106.0	58.500	40.50	1.730	6000	12000	74.0	111.0	1.5	0.990
6213-2Z	65	100	23	1.50	83.3	-	106.0	58.500	40.50	1.730	6000	12000	74.0	111.0	1.5	0.990
6213-RS	65	100	23	1.50	83.3	-	106.0	58.500	40.50	1.730	3600	12000	74.0	111.0	1.5	0.990
6213-2RS	65	100	23	1.50	83.3	-	106.0	58.500	40.50	1.730	3600	12000	74.0	111.0	1.5	0.990
62213-2RS	65	120	31	1.50	83.3	-	106.0	55.900	40.50	1.730	3600	12000	74.0	111.0	1.5	1.250
6313-Z	65	140	33	2.10	88.4	-	121.0	97.500	60.00	2.500	5300	10000	77.0	128.0	2.0	2.100
6313-2Z	65	140	33	2.10	88.4	-	121.0	97.500	60.00	2.500	5300	10000	77.0	128.0	2.0	2.100
6313-RS	65	140	33	2.10	88.4	-	121.0	97.500	60.00	2.500	3200	10000	77.0	128.0	2.0	2.100
6313-2RS	65	140	33	2.10	88.4	-	121.0	97.500	60.00	2.500	3200	10000	77.0	128.0	2.0	2.100
62313-2RS	65	140	48	2.10	88.4	-	121.0	92.300	60.00	2.500	3200	10000	77.0	128.0	2.0	3.000
61814-2Z	70	90	10	0.60	76.6	-	85.5	12.400	13.20	0.560	7500	15000	73.2	86.8	0.6	0.140
61814-2RS	70	90	10	0.60	76.6	-	85.5	12.400	13.20	0.560	4300	15000	73.2	86.8	0.6	0.140
61914-2Z	70	100	16	1.00	79.7	-	93.3	23.800	21.20	0.900	7000	14000	74.6	95.4	1.0	0.350
61914-2RS	70	100	16	1.00	79.7	-	93.3	23.800	21.20	0.900	4000	14000	74.6	95.4	1.0	0.350
6014-Z	70	110	20	1.10	82.9	-	99.9	39.700	31.00	1.320	6300	13000	76.0	104.0	1.0	0.600
6014-2Z	70	110	20	1.10	82.9	-	99.9	39.700	31.00	1.320	6300	13000	76.0	104.0	1.0	0.600
6014-RS	70	110	20	1.10	82.9	-	99.9	39.700	31.00	1.320	3600	13000	76.0	104.0	1.0	0.600
6014-2RS	70	110	20	1.10	82.9	-	99.9	39.700	31.00	1.320	3600	13000	76.0	104.0	1.0	0.600



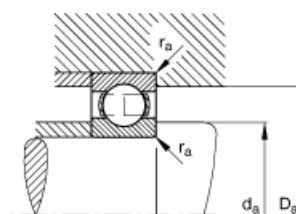
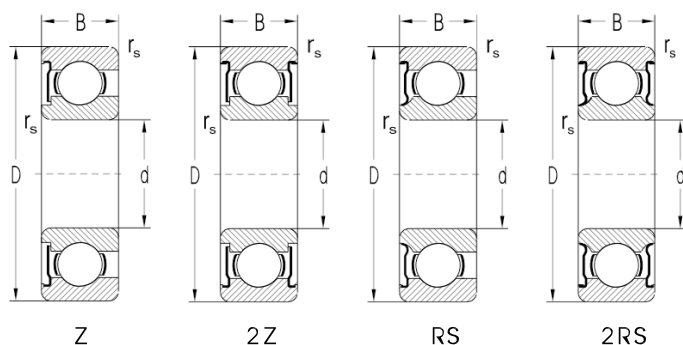
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
6214-Z	70	125	24	1.50	87.1	-	111.0	63.700	45.00	1.900	5600	11000	79.0	116.0	1.5	1.100
6214-2Z	70	125	24	1.50	87.1	-	111.0	63.700	45.00	1.900	5600	11000	79.0	116.0	1.5	1.100
6214-RS	70	125	24	1.50	87.1	-	111.0	63.700	45.00	1.900	3400	11000	79.0	116.0	1.5	1.100
6214-2RS	70	125	24	1.50	87.1	-	111.0	63.700	45.00	1.900	3400	11000	79.0	116.0	1.5	1.100
62214-2RS	70	125	31	1.50	87.1	-	111.0	60.500	45.00	1.900	3400	11000	79.0	116.0	1.5	1.300
6314-Z	70	150	35	2.10	95.0	-	130.0	111.000	68.00	2.750	5000	9500	82.0	138.0	2.0	2.500
6314-2Z	70	150	35	2.10	95.0	-	130.0	111.000	68.00	2.750	5000	9500	82.0	138.0	2.0	2.500
6314-RS	70	150	35	2.10	95.0	-	130.0	111.000	68.00	2.750	3000	9500	82.0	138.0	2.0	2.500
6314-2RS	70	150	35	2.10	95.0	-	130.0	111.000	68.00	2.750	3000	9500	82.0	138.0	2.0	2.500
62314-2RS	70	150	51	2.10	95.0	-	130.0	104.000	68.00	2.750	3000	9500	82.0	138.0	2.0	3.550
61815-2Z	75	95	10	0.60	81.6	-	90.5	12.700	14.30	0.610	7000	14000	78.2	91.8	0.6	0.150
61815-2RS	75	95	10	0.60	81.6	-	90.5	12.700	14.30	0.610	4000	14000	78.2	91.8	0.6	0.150
61915-2Z	75	105	16	1.00	84.7	-	98.3	24.200	19.30	0.965	6300	13000	79.6	100.0	1.0	0.370
61915-2RS	75	105	16	1.00	84.7	-	98.3	24.200	19.30	0.965	3600	13000	79.6	100.0	1.0	0.370
6015-Z	75	115	20	1.10	87.9	-	105.0	41.600	33.50	1.430	6000	12000	81.0	109.0	1.0	0.640
6015-2Z	75	115	20	1.10	87.9	-	105.0	41.600	33.50	1.430	6000	12000	81.0	109.0	1.0	0.640
6015-RS	75	115	20	1.10	87.9	-	105.0	41.600	33.50	1.430	3400	12000	81.0	109.0	1.0	0.640
6015-2RS	75	115	20	1.10	87.9	-	105.0	41.600	33.50	1.430	3400	12000	81.0	109.0	1.0	0.640
6215-Z	75	130	25	1.50	92.1	-	117.0	68.900	49.00	2.040	5300	10000	84.0	121.0	1.5	1.200
6215-2Z	75	130	25	1.50	92.1	-	117.0	68.900	49.00	2.040	5300	10000	84.0	121.0	1.5	1.200
6215-RS	75	130	25	1.50	92.1	-	117.0	68.900	49.00	2.040	3200	10000	84.0	121.0	1.5	1.200
6215-2RS	75	130	25	1.50	92.1	-	117.0	68.900	49.00	2.040	3200	10000	84.0	121.0	1.5	1.200
6315-Z	75	160	37	2.10	101.0	-	138.0	119.000	76.50	3.000	4500	9000	87.0	148.0	2.0	3.000
6315-2Z	75	160	37	2.10	101.0	-	138.0	119.000	76.50	3.000	4500	9000	87.0	148.0	2.0	3.000
6315-RS	75	160	37	2.10	101.0	-	138.0	119.000	76.50	3.000	2800	9000	87.0	148.0	2.0	3.000
6315-2RS	75	160	37	2.10	101.0	-	138.0	119.000	76.50	3.000	2800	9000	87.0	148.0	2.0	3.000
61816-2Z	80	100	10	0.60	86.6	-	95.5	13.000	15.00	0.640	6300	13000	83.2	96.8	0.6	0.150
61816-2RS	80	100	10	0.60	86.6	-	95.5	13.000	15.00	0.640	3600	13000	83.2	96.8	0.6	0.150
61916-2Z	80	110	16	1.00	89.8	-	102.0	25.100	20.40	1.020	6000	12000	84.6	105.0	1.0	0.400



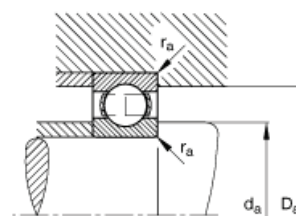
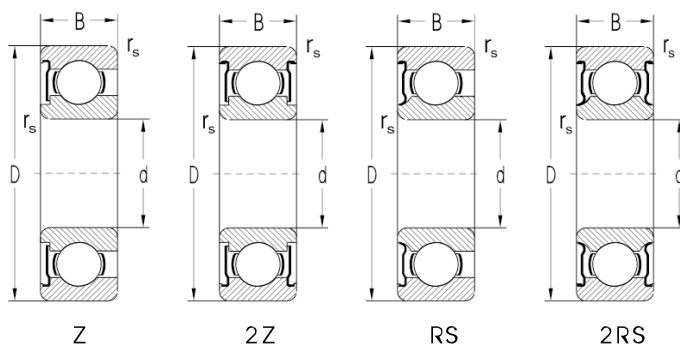
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
61916-RS	80	110	16	1.00	89.8	-	102.0	25.10	20.40	1.020	3400	12000	84.6	105.0	1.0	0.400
6016-Z	60	125	22	1.10	94.4	-	114.0	49.40	40.00	1.660	5600	11000	86.0	119.0	1.0	0.850
6016-2Z	60	125	22	1.10	94.4	-	114.0	49.40	40.00	1.660	5600	11000	86.0	119.0	1.0	0.850
6016-RS	60	125	22	1.10	94.4	-	114.0	49.40	40.00	1.660	3200	11000	86.0	119.0	1.0	0.850
6016-2RS	60	125	22	1.10	94.4	-	114.0	49.40	40.00	1.660	3200	11000	86.0	119.0	1.0	0.850
6216-Z	60	140	26	2.00	101.0	-	127.0	72.80	55.00	2.200	4800	9500	91.00	129.0	2.0	1.400
6216-2Z	60	140	26	2.00	101.0	-	127.0	72.80	55.00	2.200	4800	9500	91.00	129.0	2.0	1.400
6216-RS	60	140	26	2.00	101.0	-	127.0	72.80	55.00	2.200	3000	9500	91.00	129.0	2.0	1.400
6216-2RS	60	140	26	2.00	101.0	-	127.0	72.80	55.00	2.200	3000	9500	91.00	129.0	2.0	1.400
6316-Z	60	170	39	2.10	108.0	-	147.0	130.00	86.50	3.250	4300	8500	92.0	158.0	2.0	3.600
6316-2Z	60	170	39	2.10	108.0	-	147.0	130.00	86.50	3.250	4300	8500	92.0	158.0	2.0	3.600
6316-RS	60	170	39	2.10	108.0	-	147.0	130.00	86.50	3.250	2600	8500	92.0	158.0	2.0	3.600
6316-2RS	60	170	39	2.10	108.0	-	147.0	130.00	86.50	3.250	2600	8500	92.0	158.0	2.0	3.600
61817-2Z	85	110	13	1.00	93.2	-	104.0	19.50	20.80	0.880	6000	12000	89.6	105.0	1.0	0.270
61817-2RS	85	110	13	1.00	93.2	-	104.0	19.50	20.80	0.880	3400	12000	89.6	105.0	1.0	0.270
6017-Z	85	130	22	1.10	99.4	-	119.0	52.00	43.00	1.760	5300	11000	92.0	123.0	1.0	0.890
6017-2Z	85	130	22	1.10	99.4	-	119.0	52.00	43.00	1.760	5300	11000	92.0	123.0	1.0	0.890
6017-RS	85	130	22	1.10	99.4	-	119.0	52.00	43.00	1.760	3000	11000	92.0	123.0	1.0	0.890
6017-2RS	85	130	22	1.10	99.4	-	119.0	52.00	43.00	1.760	3000	11000	92.0	123.0	1.0	0.890
6217-Z	85	150	28	2.00	106.0	-	134.0	87.10	64.00	2.500	4500	9000	96.0	139.0	2.0	1.800
6217-2Z	85	150	28	2.00	106.0	-	134.0	87.10	64.00	2.500	4500	9000	96.0	139.0	2.0	1.800
6217-RS	85	150	28	2.00	106.0	-	134.0	87.0	64.00	2.500	2800	9000	96.0	139.0	2.0	1.800
6217-2RS	85	150	28	2.00	106.0	-	134.0	87.0	64.00	2.500	2800	9000	96.0	139.0	2.0	1.800
6317-Z	85	180	41	3.00	115.0	-	155.0	140.00	96.50	3.550	4000	8000	99.0	166.0	2.5	4.250
6317-2Z	85	180	41	3.00	115.0	-	155.0	140.00	96.50	3.550	4000	8000	99.0	166.0	2.5	4.250
6317-RS	85	180	41	3.00	115.0	-	155.0	140.00	96.50	3.550	2400	8000	99.0	166.0	2.5	4.250
6317-2RS	85	180	41	3.00	115.0	-	155.0	140.00	96.50	3.550	2400	8000	99.0	166.0	2.5	4.250
61818-2Z	90	115	13	1.00	98.2	-	109.0	19.50	22.00	0.915	5600	11000	94.6	110.0	1.0	0.280
61818-2RS	90	115	13	1.00	98.2	-	109.0	19.50	22.00	0.915	3200	11000	94.6	110.0	1.0	0.280



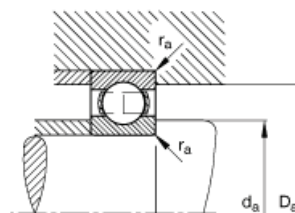
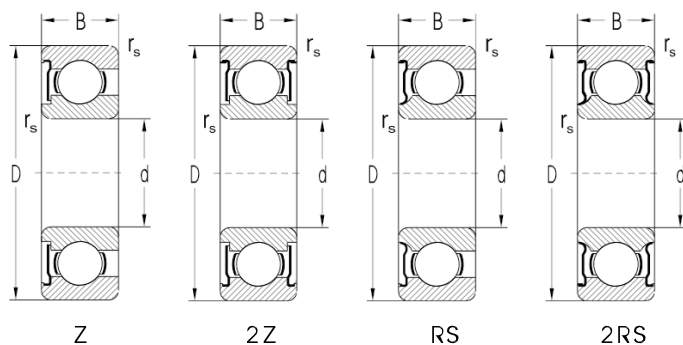
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d_a mm	D_a mm	r_a mm	Kg
6018-Z	90	140	24	1.50	106.0	-	128.0	60.50	50.00	1.960	5000	10000	97.0	133.0	1.5	1.150
6018-2Z	90	140	24	1.50	106.0	-	128.0	60.50	50.00	1.960	5000	10000	97.0	133.0	1.5	1.150
6018-RS	90	140	24	1.50	106.0	-	128.0	60.50	50.00	1.960	2800	10000	97.0	133.0	1.5	1.150
6018-2RS	90	140	24	1.50	106.0	-	128.0	60.50	50.00	1.960	2800	10000	97.0	133.0	1.5	1.150
6218-Z	90	160	30	2.00	113.0	-	143.0	101.00	73.50	2.800	4300	8500	101.0	149.0	2.0	2.150
6218-2Z	90	160	30	2.00	113.0	-	143.0	101.00	73.50	2.800	4300	8500	101.0	149.0	2.0	2.150
6218-RS	90	160	30	2.00	113.0	-	143.0	101.00	73.50	2.800	2600	8500	101.0	149.0	2.0	2.150
6218-2RS	90	160	30	2.00	113.0	-	143.0	101.00	73.50	2.800	2600	8500	101.0	149.0	2.0	2.150
6318-Z	90	190	43	3.00	121.0	-	164.0	151.00	108.00	3.800	3800	7500	104.0	176.0	2.5	4.900
6318-2Z	90	190	43	3.00	121.0	-	164.0	151.00	108.00	3.800	3800	7500	104.0	176.0	2.5	4.900
6318-RS	90	190	43	3.00	121.0	-	164.0	151.00	108.00	3.800	2400	7500	104.0	176.0	2.5	4.900
6318-2RS	90	190	43	3.00	121.0	-	164.0	151.00	108.00	3.800	2400	7500	104.0	176.0	2.5	4.900
61819-2Z	95	120	13	1.00	103.0	-	114.0	19.90	22.80	0.930	5300	11000	99.6	115.0	1.0	0.300
61819-2RS	95	120	13	1.00	103.0	-	114.0	19.90	22.80	0.930	3000	11000	99.6	115.0	1.0	0.300
61919-2RS	95	130	18	1.10	106.0	-	122.0	33.80	33.50	1.430	3000	11000	101.0	124.0	1.0	0.610
6019-Z	95	145	24	1.50	111.0	-	133.0	63.70	54.00	2.080	4800	9500	102.0	138.0	1.5	1.200
6019-2Z	95	145	24	1.50	111.0	-	133.0	63.70	54.00	2.080	4800	9500	102.0	138.0	1.5	1.200
6019-RS	95	145	24	1.50	111.0	-	133.0	63.70	54.00	2.080	2800	9500	102.0	138.0	1.5	1.200
6019-2RS	95	145	24	1.50	111.0	-	133.0	63.70	54.00	2.080	2800	9500	102.0	138.0	1.5	1.200
6219-Z	95	170	32	2.10	118.0	-	151.0	114.00	81.50	3.000	4000	8000	107.0	158.0	2.0	2.600
6219-2Z	95	170	32	2.10	118.0	-	151.0	114.00	81.50	3.000	4000	8000	107.0	158.0	2.0	2.600
6219-RS	95	170	32	2.10	-	112.0	151.0	114.00	81.50	3.000	2400	8000	107.0	158.0	2.0	2.600
6219-2RS	95	170	32	2.10	-	112.0	151.0	114.00	81.50	3.000	2400	8000	107.0	158.0	2.0	2.600
6319-Z	95	200	45	3.00	128.0	-	172.0	159.00	118.00	4.150	3600	7000	109.0	186.0	2.5	5.650
6319-2Z	95	200	45	3.00	128.0	-	172.0	159.00	118.00	4.150	3600	7000	109.0	186.0	2.5	5.650
6319-RS	95	200	45	3.00	-	121.0	172.0	159.00	118.00	4.150	2200	7000	109.0	186.0	2.5	5.650
6319-2RS	95	200	45	3.00	-	121.0	172.0	159.00	118.00	4.150	2200	7000	109.0	186.0	2.5	5.650
61820-2Z	100	125	13	1.00	108.0	-	119.0	19.90	24.00	0.950	5300	10000	105.0	120.0	1.0	0.310
61820-2RS	100	125	13	1.00	108.0	-	119.0	19.90	24.00	0.950	3000	10000	105.0	120.0	1.0	0.310



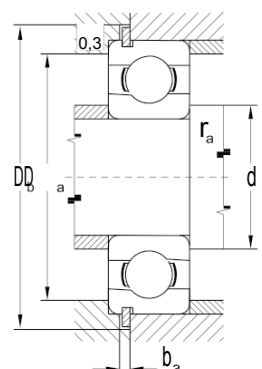
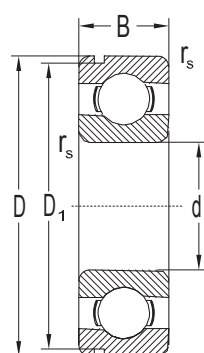
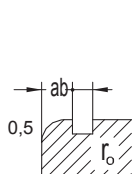
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
6020-Z	100	150	24	1.50	116.0	-	138.0	63.70	54.00	2.040	4500	9500	107.0	143.0	1.5	1.250
6020-2Z	100	150	24	1.50	116.0	-	138.0	63.70	54.00	2.040	4500	9500	107.0	143.0	1.5	1.250
6020-RS	100	150	24	1.50	-	110.0	138.0	63.70	54.00	2.040	2600	9500	107.0	143.0	1.5	1.250
6020-2RS	100	150	24	1.50	-	110.0	138.0	63.70	54.00	2.040	2600	9500	107.0	143.0	1.5	1.250
6220-Z	100	180	34	2.10	125.0	-	160.0	127.00	93.00	3.350	3800	7500	112.0	168.0	2.0	3.150
6220-2Z	100	180	34	2.10	125.0	-	160.0	127.00	93.00	3.350	3800	7500	112.0	168.0	2.0	3.150
6220-RS	100	180	34	2.10	-	118.0	160.0	127.00	93.00	3.350	2400	7500	112.0	168.0	2.0	3.150
6220-2RS	100	180	34	2.10	-	118.0	160.0	127.00	93.00	3.350	2400	7500	112.0	168.0	2.0	3.150
6320-Z	100	215	47	3.00	136.0	-	184.0	174.0	140.0	4.750	3400	6700	114.0	201.0	2.5	7.000
6320-2Z	100	215	47	3.00	136.0	-	184.0	174.0	140.0	4.750	3400	6700	114.0	201.0	2.5	7.000
61821-2Z	105	130	13	1.00	112.0	-	124.0	20.80	19.60	1.000	5000	10000	110.0	125.0	1.0	0.320
61821-2RS	105	130	13	1.00	-	111.0	124.0	20.80	19.60	1.000	2800	10000	110.0	125.0	1.0	0.320
6021-Z	105	160	26	2.00	123.0	-	147.0	76.10	65.50	2.400	4300	8500	116.0	149.0	2.0	1.600
6021-2Z	105	160	26	2.00	123.0	-	147.0	76.10	65.50	2.400	4300	8500	116.0	149.0	2.0	1.600
6021-RS	105	160	26	2.00	-	117.0	147.0	76.10	65.50	2.400	2400	8500	116.0	149.0	2.0	1.600
6021-2RS	105	160	26	2.00	-	117.0	147.0	76.10	65.50	2.400	2400	8500	116.0	149.0	2.0	1.600
6221-Z	105	190	36	2.10	131.0	-	167.0	140.00	104.00	3.650	3600	7000	117.0	178.0	2.0	3.700
6221-2Z	105	190	36	2.10	131.0	-	167.0	140.00	104.00	3.650	3600	7000	117.0	178.0	2.0	3.700
6221-RS	105	190	36	2.10	-	125.0	167.0	140.00	104.00	3.650	2200	7000	117.0	178.0	2.0	3.700
6221-2RS	105	190	36	2.10	-	125.0	167.0	140.00	104.00	3.650	2200	7000	117.0	178.0	2.0	3.700
6321-Z	105	225	49	3.00	141.0	-	193.0	182.00	153.00	5.100	3200	6300	119.0	211.0	2.5	8.250
6321-2Z	105	225	49	3.00	141.0	-	193.0	182.00	153.00	5.100	3200	6300	119.0	211.0	2.5	8.250
61822-2Z	110	140	16	1.00	119.0	-	134.0	28.10	26.00	1.250	4500	9500	115.0	135.0	1.0	0.600
61822-2RS	110	140	16	1.00	-	115.0	134.0	28.10	26.00	1.250	2600	9500	115.0	135.0	1.0	0.600
6022-Z	110	170	28	2.00	129.0	-	155.0	85.20	73.50	2.400	4000	8000	119.0	161.0	2.0	1.950
6022-2Z	110	170	28	2.00	129.0	-	155.0	85.20	73.50	2.400	4000	8000	119.0	161.0	2.0	1.950
6022-RS	110	170	28	2.00	129.0	-	155.0	85.20	73.50	2.400	2400	8000	119.0	161.0	2.0	1.950
6022-2RS	110	170	28	2.00	129.0	-	155.0	85.20	73.50	2.400	2400	8000	119.0	161.0	2.0	1.950
6222-Z	110	200	38	2.10	138.0	-	177.0	151.0	118.0	4.000	3400	6700	122.0	188.0	2.0	4.350



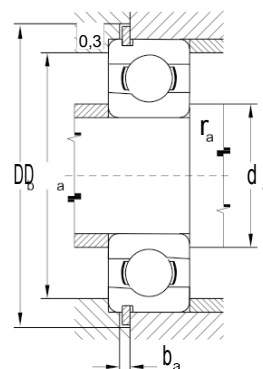
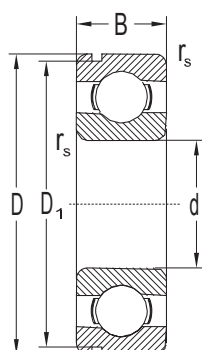
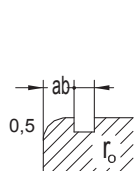
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
6222-2Z	110	200	38	2.10	138.0	-	177.0	151.0	118.0	4.000	3400	6700	122.0	188.0	2.0	4.350
61824-2Z	120	150	16	1.00	129.0	-	144.0	29.10	28.00	1.290	4300	8500	125.0	145.0	1.0	0.650
61824-2RS	120	150	16	1.00	-	125.0	144.0	29.10	28.00	1.290	2400	8500	125.0	145.0	1.0	0.650
6024-Z	120	180	28	2.00	139.0	-	165.0	88.40	80.00	2.750	3800	7500	129.0	171.0	2.0	2.050
6024-2Z	120	180	28	2.00	139.0	-	165.0	88.40	80.00	2.750	3800	7500	129.0	171.0	2.0	2.050
6024-RS	120	180	28	2.00	-	133.0	165.0	88.40	80.00	2.750	2200	7500	129.0	171.0	2.0	2.050
6024-2RS	120	180	28	2.00	-	133.0	165.0	88.40	80.00	2.750	2200	7500	129.0	171.0	2.0	2.050
6224-Z	120	215	40	2.10	151.0	-	189.0	146.00	118.00	3.900	3200	6300	132.0	203.0	2.0	5.150
6224-2Z	120	215	40	2.10	151.0	-	189.0	146.00	118.00	3.900	3200	6300	132.0	203.0	2.0	5.150
61826-2Z	130	165	18	1.10	140.0	-	158.0	37.70	43.00	1.600	3800	8000	136.0	159.0	1.0	0.930
61826-2RS	130	165	18	1.10	-	137.0	158.0	37.70	43.00	1.600	3800	8000	136.0	159.0	1.0	0.930
6026-Z	130	200	33	2.00	153.0	-	182.0	112.00	100.00	3.350	3400	7000	139.0	191.0	2.0	3.150
6026-2Z	130	200	33	2.00	153.0	-	182.0	112.00	100.00	3.350	3400	7000	139.0	191.0	2.0	3.150
6026-RS	130	200	33	2.00	153.0	-	182.0	112.00	100.00	3.350	2000	7000	139.0	191.0	2.0	3.150
6026-2RS	130	200	33	2.00	153.0	-	182.0	112.00	100.00	3.350	2000	7000	139.0	191.0	2.0	3.150
6226-Z	130	230	40	3.00	161.0	-	203.0	156.00	132.00	4.150	3000	5600	144.0	216.0	2.5	5.800
6226-2Z	130	230	40	3.00	161.0	-	203.0	156.00	132.00	4.150	3000	5600	144.0	216.0	2.5	5.800
61828-2Z	140	175	18	1.10	151.0	-	167.0	39.00	46.50	1.660	3600	7500	146.0	169.0	1.0	0.990
61828-2RS	140	175	18	1.10	-	148.0	167.0	39.00	46.50	1.660	2000	7500	146.0	169.0	1.0	0.990
6028-Z	140	210	33	2.00	163.0	-	192.0	111.00	108.00	3.450	3200	6700	149.0	201.0	2.0	3.350
6028-2Z	140	210	33	2.00	163.0	-	192.0	111.00	108.00	3.450	3200	6700	149.0	201.0	2.0	3.350
6028-RS	140	210	33	2.00	-	156.0	192.0	111.00	108.00	3.450	1800	6700	149.0	201.0	2.0	3.350
6028-2RS	140	210	33	2.00	-	156.0	192.0	111.00	108.00	3.450	1800	6700	149.0	201.0	2.0	3.350



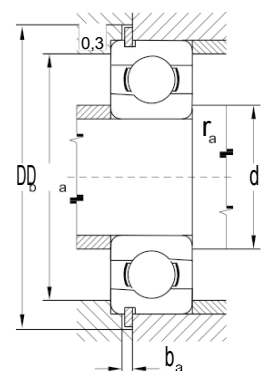
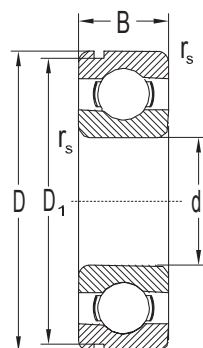
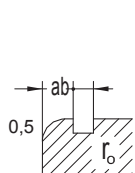
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D2 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
6030-Z	150	225	35	2.10	174.0	-	205.0	125.00	125.00	3.900	3000	6000	160.0	215.0	2.0	4.800
6030-2Z	150	225	35	2.10	174.0	-	205.0	125.00	125.00	3.900	3000	6000	160.0	215.0	2.0	4.800
6030-RS	150	225	35	2.10	174.0	-	205.0	125.00	125.00	3.900	1700	6000	160.0	215.0	2.0	4.800
6030-2RS	150	225	35	2.10	174.0	-	205.0	125.00	125.00	3.900	1700	6000	160.0	215.0	2.0	4.800
6032-Z	160	240	38	2.10	186.0	-	219.0	143.00	143.00	4.300	2800	5600	169.0	231.0	2.0	5.900
6032-2Z	160	240	38	2.10	186.0	-	219.0	143.00	143.00	4.300	2800	5600	169.0	231.0	2.0	5.900
6032-RS	160	240	38	2.10	-	179.0	219.0	143.00	143.00	4.300	1600	5600	169.0	231.0	2.0	5.900
6032-2RS	160	240	38	2.10	-	179.0	219.0	143.00	143.00	4.300	1600	5600	169.0	231.0	2.0	5.900



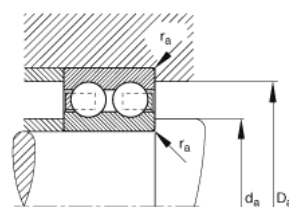
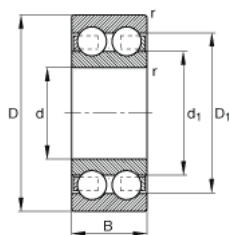
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r min	D ₁ mm	a mm	b mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	D _b mm	b _a mm	Kg
6201 N	12	32	10	0.66	30.15	2.06	1.35	06.905	3.100	0.141	22000	27000	16.0	28.0	39.0	1.4	0.04
62201 N	12	32	14	0.66	30.15	2.06	1.35	6.905	3.100	0.141	22000	27000	16.0	28.0	39.0	1.4	0.05
6202 N	15	35	11	0.60	33.17	2.06	1.35	7.718	3.745	0.170	20000	24000	19.0	31.0	41.0	1.4	0.03
62202 N	15	35	14	0.60	33.17	2.06	1.34	7.718	3.745	0.170	20000	24000	19.0	31.0	41.0	1.4	0.05
6203 N	17	40	12	0.60	38.10	2.06	1.35	9.534	4.734	0.215	18000	21000	21.0	36.0	46.0	1.5	0.07
62203 N	17	40	16	0.60	38.10	2.06	1.35	9.534	4.734	0.215	18000	21000	21.0	36.0	46.0	1.5	0.08
6303 N	17	47	14	1.00	44.60	2.46	1.35	13.565	6.563	0.298	16000	19000	23.0	41.0	54.0	1.5	0.12
6004 N	20	42	12	0.60	39.75	2.06	1.35	9.371	4.972	0.226	17000	20000	24.0	38.0	47.5	1.5	0.07
6204 N	20	47	14	1.00	44.60	2.46	1.35	12.774	6.553	0.298	15000	18000	25.0	42.0	54.0	1.5	0.11
6304 N	20	52	15	1.10	49.73	2.46	1.35	15.866	7.811	0.355	14000	17000	26.0	45.0	59.0	1.5	0.15
62304 N	20	52	21	1.10	49.73	2.46	1.35	15.866	7.811	0.355	14000	17000	26.0	45.0	59.0	1.5	0.20
6005 N	25	47	12	0.60	44.60	2.06	1.35	10.070	5.806	0.264	14000	17000	28.0	43.0	54.0	1.5	0.08
6205 N	25	52	15	1.00	49.73	2.46	1.35	14.029	7.940	0.361	12600	15000	30.0	47.0	59.0	1.5	0.13
62205 N	25	52	18	1.00	49.73	2.46	1.35	14.029	7.940	0.361	12600	15000	30.0	47.0	59.0	1.5	0.15
6305 N	25	62	17	1.10	59.61	3.28	1.90	21.123	10.806	0.491	11000	13000	31.0	55.0	69.0	2.2	0.23
62305 N	25	62	24	1.10	59.61	3.28	1.90	21.123	10.806	0.491	11000	13000	31.0	55.0	69.0	2.2	0.32
6405 N	25	80	21	1.50	76.81	3.28	1.90	36.000	19.200	0.873	9400	11000	34.0	70.0	88.0	2.2	0.53
6006 N	30	55	13	1.00	52.60	2.08	1.90	13.243	8.253	0.375	12000	14000	34.0	50.0	62.0	1.5	0.12
6206 N	30	62	16	2.00	59.61	3.28	1.90	19.443	11.186	0.508	11000	13000	35.0	57.0	69.0	2.2	0.20
62206 N	30	62	20	2.00	59.61	3.28	1.90	19.443	11.186	0.508	11000	13000	35.0	57.0	69.0	2.2	0.24
6306 N	30	72	19	1.10	68.81	3.28	1.90	29.701	15.678	0.713	10000	12000	36.0	65.0	80.0	2.2	0.33
6004 N	30	90	23	1.50	86.79	3.28	2.70	43.000	23.700	1.077	8400	10000	39.0	80.0	98.0	3.0	0.73
6007 N	35	62	14	1.00	59.61	2.06	1.90	15.956	10.328	0.469	10600	12600	39.5	57.0	69.0	2.2	0.15
6207 N	35	72	17	1.10	68.81	3.28	1.90	25.663	15.277	0.694	9400	11000	42.0	65.0	80.0	2.2	0.28
6307 N	35	80	21	1.50	78.81	3.28	1.90	33.367	19.230	0.874	8400	10000	42.0	71.0	88.0	2.2	0.45
6407 N	35	100	25	1.50	96.80	3.28	2.70	55.200	31.000	1.409	7500	8900	44.0	90.0	108.0	3.0	0.95
6008 N	40	68	15	1.00	64.82	2.49	1.90	16.824	11.493	0.522	9400	11000	44.0	63.0	76.0	2.2	0.19
6208 N	40	80	18	1.10	76.81	3.28	1.90	32.633	19.887	0.904	8400	10000	47.0	73.0	88.0	2.2	0.35
6308 N	40	90	23	1.50	86.79	3.28	2.70	40.760	24.017	1.092	7900	9400	47.0	81.0	98.0	3.0	0.63



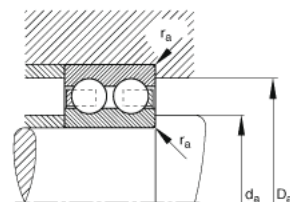
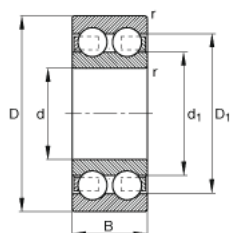
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	D ₁ mm	a mm	b mm	Dynamic kN	Static kN	kN	Grasso Grease	Olivo Oil	d _a mm	D _a mm	D _b mm	b _a mm	Kg
6408 N	40	110	27	2.00	106.81	3.28	2.70	63.100	36.200	1.645	6700	7900	50.0	97.0	118.0	3.0	1.23
6009 N	45	75	16	1.00	71.83	2.49	1.90	21.100	15.300	0.695	8400	10000	49.0	70.0	83.0	2.2	0.24
6209 N	45	85	19	1.10	81.81	3.28	1.90	32.687	20.325	0.924	7900	9400	52.0	78.0	93.0	2.2	0.40
6309 N	45	100	25	1.50	96.80	3.28	2.70	52.804	31.715	1.442	7100	8400	52.0	91.0	108.0	3.0	0.83
6409 N	45	120	29	2.00	115.21	4.06	3.10	76.500	44.700	2.032	6000	7100	55.0	107.0	131.0	3.5	1.54
6010 N	50	80	16	1.00	76.81	2.49	1.90	21.720	16.650	0.757	7900	9400	54.0	75.0	88.0	2.2	0.26
6210 N	50	90	20	1.10	86.79	3.28	2.70	35.066	23.226	1.056	7100	8400	57.0	83.0	98.0	3.0	0.46
6310 N	50	110	27	2.00	106.81	3.28	2.70	61.900	37.600	1.709	6300	7500	60.0	100.0	118.0	3.0	1.06
6011 N	55	90	18	1.10	86.79	2.87	2.70	28.200	21.318	0.969	7100	8400	60.0	84.0	98.0	3.0	0.38
6211 N	55	100	21	1.50	96.80	3.28	2.70	43.350	29.397	1.336	6700	7900	62.0	91.0	108.0	3.0	0.60
6311 N	55	120	29	2.00	115.21	4.06	3.10	71.000	44.700	2.032	5600	6700	65.0	110.0	131.0	3.5	1.38
6411 N	55	140	33	2.10	135.23	4.90	3.10	100.000	61.900	2.814	5300	6300	68.0	126.0	151.0	3.5	2.29
6012 N	60	95	18	1.10	91.82	2.87	2.70	29.343	23.256	1.057	6700	7900	65.0	88.0	103.0	3.0	0.41
6212 N	60	110	22	1.50	106.81	3.82	2.70	52.486	35.786	1.627	6000	7100	67.0	101.0	110.0	3.0	0.77
6312 N	60	130	31	2.10	125.22	4.06	3.10	81.500	52.100	2.368	5300	6300	72.0	118.0	141.0	3.5	1.72
6412 N	60	150	35	2.10	145.24	4.90	3.10	110.000	69.400	3.079	4700	5600	73.0	136.0	162.0	3.5	2.76
6013 N	65	100	18	1.10	96.80	2.87	2.70	30.500	25.100	1.141	6300	7500	70.0	93.0	108.0	3.0	0.44
6213 N	65	120	23	1.50	115.21	4.06	3.10	57.210	40.011	1.819	5300	6300	72.0	111.0	131.0	3.5	1.00
6313 N	65	140	33	2.10	135.23	4.90	3.10	92.600	59.600	2.676	5000	6000	76.0	128.0	148.0	3.5	2.10
6413 N	65	160	37	2.10	155.22	4.90	3.10	117.950	78.329	3.357	4500	5300	78.0	146.0	172.0	3.5	3.28
6014 N	70	110	20	1.10	106.81	2.87	2.70	37.960	30.959	1.407	5600	6700	75.0	103.0	118.0	3.0	0.60
6214 N	70	125	24	1.50	120.22	4.06	3.10	62.000	43.800	1.991	5300	6300	77.0	116.0	136.0	3.5	1.07
6314 N	70	150	35	2.10	145.24	4.90	3.10	104.000	68.100	2.951	4700	5600	81.0	138.0	162.0	3.5	2.54
6414 N	70	180	42	3.00	173.66	5.69	3.50	114.000	104.000	4.228	4000	4700	85.0	164.0	195.0	4.5	4.85
6015 N	75	115	20	1.10	111.81	2.87	2.70	39.747	33.170	1.508	5300	6300	80.0	108.0	123.0	3.0	0.64
6215 N	75	130	25	1.50	125.22	4.06	3.10	66.170	49.311	2.214	5000	6000	82.0	121.0	141.0	3.5	1.18
6315 N	75	160	37	2.10	155.22	4.90	3.10	114.000	76.400	3.204	4200	5000	86.0	148.0	172.0	3.5	3.06
6415 N	75	190	45	3.00	183.64	5.69	3.50	152.529	112.922	4.459	3800	4500	90.0	174.0	205.0	4.5	5.74
6016 N	80	125	22	1.10	120.22	2.87	3.10	47.500	39.800	1.787	5000	6000	85.0	118.0	136.0	3.5	0.85



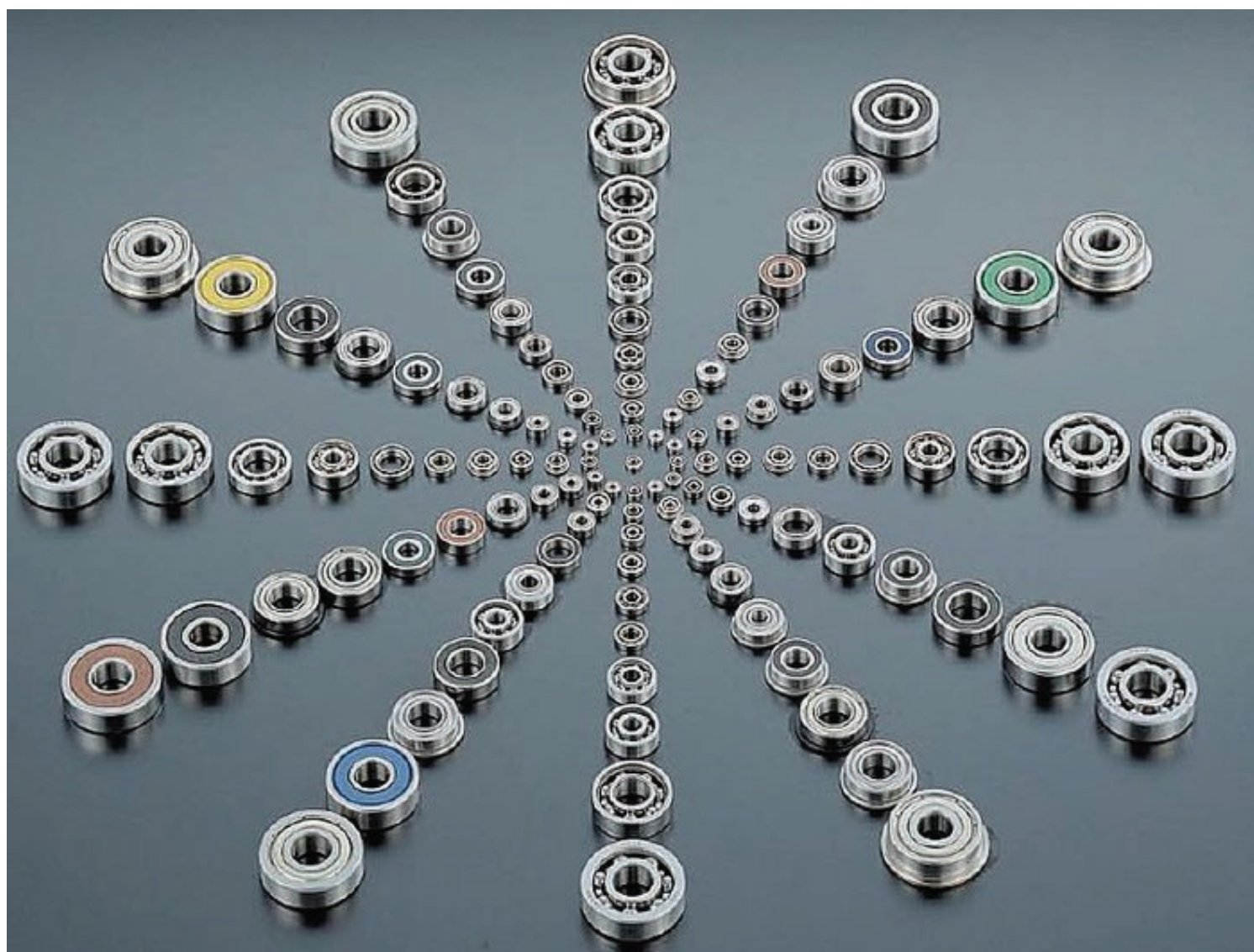
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	D ₁ mm	a mm	b mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	D _b mm	b _a mm	Kg
6216 N	80	140	26	2.00	135.23	4.90	3.10	72.200	53.100	2.301	4700	5600	90.0	130.0	151.0	3.5	1.40
6316 N	80	170	39	2.10	163.65	5.69	3.50	122.850	86.226	3.506	4000	4700	91.0	158.0	185.0	3.5	3.63
6416 N	80	200	48	3.00	193.65	5.69	3.50	163.587	124.984	4.801	3500	4200	95.0	184.0	215.0	4.5	6.72
6017 N	85	130	22	1.10	125.22	2.87	3.10	49.794	42.609	1.868	4700	5600	91.5	123.5	141.0	3.5	0.89
6217 N	85	150	28	2.00	145.24	4.90	3.10	83.299	63.675	2.670	4200	5000	95.0	140.0	162.0	3.5	1.80
6317 N	85	180	41	3.00	173.66	5.69	3.50	132.507	96.069	3.794	3800	4500	98.0	166.0	195.0	4.5	4.20
6018 N	90	140	24	1.50	135.23	3.71	3.10	58.400	49.200	2.085	4500	5300	96.0	132.0	151.0	3.5	1.17
6218 N	90	160	30	2.00	155.22	4.90	3.10	96.200	70.800	2.878	4000	4700	100.0	150.0	172.0	3.5	2.16
6319 N	95	200	45	3.00	193.65	5.69	3.50	152.444	117.366	4.393	3300	4000	109.0	186.0	215.0	4.5	5.72
6020 N	100	150	24	1.50	145.24	3.71	3.10	60.096	54.244	2.205	4200	5000	106.0	142.0	162.0	3.5	1.27
6221 N	105	190	36	2.10	183.64	5.96	3.50	132.297	104.833	3.924	3300	4000	117.0	178.0	205.0	4.5	3.74
6024 N	120	180	28	2.00	173.66	3.71	3.50	85.000	79.400	2.947	3300	4000	188.0	171.0	195.0	4.5	2.10



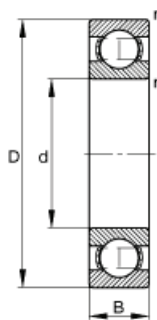
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
4200 ATN9	10	30	14	0.60	16.7	23.3	9.23	5.20	0.224	22000	40000	14.2	25.8	0.6	0.049
4201 ATN9	12	32	14	0.60	18.3	25.7	10.60	6.20	0.260	20000	36000	16.2	27.8	0.6	0.053
4301 ATN9	12	37	17	1.00	20.5	28.5	13.00	7.80	0.325	18000	34000	17.6	31.4	1.0	0.092
4202 ATN9	15	35	14	0.60	21.5	29.0	11.90	7.50	0.320	17000	32000	19.2	30.8	0.6	0.059
4302 ATN9	15	42	17	1.00	24.5	32.5	14.80	9.50	0.405	15000	28000	20.6	36.4	1.0	0.120
4203 ATN9	17	40	16	0.60	24.3	32.7	14.80	9.50	0.405	15000	28000	21.2	35.8	0.6	0.090
4303 ATN9	17	47	19	1.00	28.7	38.3	19.50	13.20	0.560	13000	24000	22.6	41.4	1.0	0.160
4204 ATN9	20	47	18	1.00	29.7	38.3	17.80	12.50	0.530	13000	24000	25.6	41.4	1.0	0.140
4304 ATN9	20	52	21	1.10	31.8	42.2	23.40	16.00	0.680	12000	22000	27.0	45.0	1.0	0.210
4205 ATN9	25	52	18	1.00	34.2	42.8	19.00	14.60	0.620	11000	20000	34.2	42.8	1.0	0.160
4305 ATN9	25	62	24	1.10	37.3	49.7	31.90	22.40	0.950	10000	18000	32.0	55.0	1.0	0.340
4206 ATN9	30	62	20	1.00	40.9	51.1	26.00	20.80	0.880	9500	17000	35.6	56.4	1.0	0.260
4306 ATN9	30	72	27	1.10	43.9	58.1	41.00	30.00	1.270	8500	16000	37.0	65.0	1.0	0.500
4207 ATN9	35	72	23	1.10	47.5	59.5	35.10	28.50	1.200	8000	15000	42.0	65.0	1.0	0.400
4307 ATN9	35	80	31	1.50	49.5	65.6	50.70	38.00	1.630	7500	14000	44.0	71.0	1.5	0.690
4208 ATN9	40	80	23	1.10	54.0	66.0	37.10	32.50	1.370	7000	13000	47.0	73.0	1.0	0.500
4308 ATN9	40	90	33	1.50	56.9	73.1	55.90	45.00	1.900	6700	12000	49.0	81.0	1.5	0.950
4209 ATN9	45	85	23	1.10	59.5	71.5	39.00	36.00	1.530	6700	12000	52.0	78.0	1.0	0.540
4309 ATN9	45	100	36	1.50	63.5	81.5	68.90	56.00	2.400	6000	11000	54.0	91.0	1.5	1.250
4210 ATN9	50	90	23	1.10	65.5	77.5	41.00	40.00	1.700	6000	11000	57.0	83.0	1.0	0.580
4310 ATN9	50	110	40	2.00	70.0	90.0	81.90	69.50	2.900	5300	10000	61.0	99.0	2.0	1.700
4211 ATN9	55	100	25	1.50	71.2	83.8	44.90	44.00	1.900	5600	10000	64.0	91.0	1.5	0.800
4311 ATN9	55	120	43	2.00	76.5	98.5	97.50	83.00	3.450	5000	9000	66.0	109.0	2.00	2.150
4212 ATN9	60	110	28	1.50	75.6	90.4	57.20	55.00	2.360	5300	9500	69.0	101.0	1.5	1.100
4312 ATN9	60	130	46	2.10	83.1	107.0	112.00	98.00	4.150	4500	8500	72.0	118.0	2.0	2.650
4213 ATN9	65	120	31	1.50	82.9	99.1	67.60	67.00	2.800	4800	8500	74.0	111.0	1.5	1.450
4313 ATN9	65	140	48	2.10	89.6	115.0	121.00	106.00	4.500	4300	8000	77.0	128.0	2.0	3.250
4214 ATN9	70	125	31	1.50	89.4	106.0	70.20	73.50	3.100	4300	8000	79.0	116.0	1.5	1.500
4314 ATN9	70	150	51	2.10	96.7	124.0	138.00	125.00	5.000	3800	7000	82.0	138.0	2.0	3.950



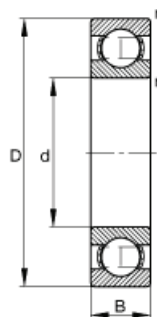
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
4215 ATN9	75	130	31	1.50	96.9	114.0	72.80	80.00	3.350	4000	7500	84.0	121.0	1.5	1.600
4315 ATN9	75	160	55	2.10	103.0	132.0	156.00	143.00	5.500	3600	6700	87.0	148.0	2.0	4.800
4216 ATN9	80	140	33	2.00	102.0	120.0	80.60	90.00	3.600	3800	7000	91.0	129.0	2.0	2.000
4217 ATN9	85	150	36	2.00	105.0	125.0	93.60	102.00	4.000	3600	7000	96.0	139.0	2.0	2.550
4218 ATN9	90	160	40	2.00	114.0	136.0	112.00	122.00	4.650	3400	6300	101.0	149.0	2.0	3.200
4220 ATN9	100	180	46	2.10	130.0	154.0	140.00	156.00	5.600	3000	5600	112.0	168.0	2.0	4.700



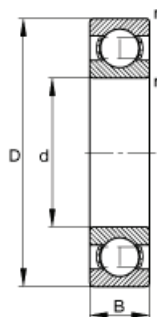
Microcuscinetti a Sfere
Miniature Ball Bearings



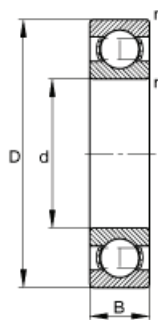
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Velocità limite Limiting Speed g./min.	
	d mm	D mm	B mm	r mm	Dynamic N	Static N	Grasso Grease	Olio Oil
MR 63-2Z	3	6	2.5	0.08	242	94	60000	-
683	3	7	2.0	0.10	390	130	-	68000
683-2Z	3	7	3.0	0.10	390	130	58000	-
693	3	8	3.0	0.15	580	180	-	63000
693-2Z	3	8	4.0	0.15	580	180	54000	-
603	3	9	3.0	0.15	635	219	-	60000
603-2Z	3	9	5.0	0.15	635	219	50000	-
MR 74	4	7	2.0	0.08	269	117	-	63000
MR 74-2Z	4	7	2.5	0.08	269	117	54000	-
684	4	9	2.5	0.10	640	224	-	57000
684-2Z	4	9	4.0	0.10	640	224	48000	-
694	4	11	4.0	0.15	715	276	-	52000
694-2Z	4	11	4.0	0.15	715	276	46000	-
604	4	12	4.0	0.20	970	360	-	51000
604-2Z	4	12	4.0	0.20	970	360	43000	-
634	4	16	5.0	0.30	1760	580	-	44000
634-2Z	4	16	5.0	0.30	1760	580	37000	-
MR 85	5	8	2.0	0.08	292	142	-	57000
MR 85-2Z	5	8	2.5	0.08	292	142	49000	-
685	5	11	3.0	0.15	715	282	-	51000
685-2Z	5	11	5.0	0.15	715	282	43000	-
695	5	13	4.0	0.20	1080	430	-	47000
695-2Z	5	13	4.0	0.20	1080	430	40000	-
605	5	14	5.0	0.20	1330	505	-	46000
605-2Z	5	14	5.0	0.20	1330	505	39000	-
635	5	19	6.0	0.30	2340	885	-	40000
635-2Z	5	19	6.0	0.30	2340	885	34000	-
MR 106	6	10	2.5	0.10	530	240	-	51000
MR 106-2Z	6	10	3.0	0.10	530	240	43000	-



Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Velocità limite Limiting Speed g./min.	
	d mm	D mm	B mm	r mm	Dynamic N	Static N	Grasso Grease	Olio Oil
686	6	13	3.5	0.15	1080	440	-	46000
686-2Z	6	13	5.0	0.15	1080	440	39000	-
696	6	15	5.0	0.20	1350	530	-	44000
696-2Z	6	15	5.0	0.20	1350	530	37000	-
606	6	17	6.0	0.30	2190	865	-	42000
606-2Z	6	16	6.0	0.30	2190	865	35000	-
687	7	14	3.5	0.15	1170	510	-	44000
687-2Z	7	14	5.0	0.15	1170	510	37000	-
697	7	17	5.0	0.30	1610	715	-	41000
697-2Z	7	17	5.0	0.30	1610	715	35000	-
MR 128	8	12	2.5	0.10	575	298	-	45000
MR 128-2Z	8	12	3.5	0.15	575	298	38000	-
688	8	16	4.0	0.20	1260	585	-	41000
688-2Z	8	16	5.0	0.20	1260	585	35000	-
698	8	19	6.0	0.30	1990	865	-	39000
698-2Z	8	19	6.0	0.30	1990	865	33000	-
628-2Z	8	24	8.0	0.30	4000	1590	31000	-
689	9	17	4.0	0.20	1720	820	-	39000
689-2Z	9	17	5.0	0.20	1720	820	33000	-
699	9	20	6.0	0.30	2480	1090	-	38000
699-2Z	9	20	6.0	0.30	2480	1090	32000	-
6700	10	15	3.0	0.10	1010	555	-	42000
6700-2Z	10	15	4.0	0.10	1010	555	36000	-
6800	10	19	5.0	0.30	1830	925	-	38000
6800-2Z	10	19	5.0	0.30	1830	925	32000	-
6800-2RS	10	19	5.0	0.30	1830	925	32000	-
6900	10	22	6.0	0.30	2700	1270	-	36000
6900-2Z	10	22	6.0	0.30	2700	1270	30000	-
6900-2RS	10	22	6.0	0.30	2700	1270	30000	-



Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Velocità limite Limiting Speed g./min.	
	d mm	D mm	B mm	r mm	Dynamic N	Static N	Grasso Grease	Olio Oil
6701	12	18	4.0	0.20	1070	655	-	38000
6701-2Z	12	18	4.0	0.20	1070	655	32000	-
6801	12	21	5.0	0.30	1920	1040	-	35000
6801-2Z	12	21	5.0	0.30	1920	1040	29000	-
6801-2RS	12	21	5.0	0.30	1920	1040	29000	-
6901	12	24	6.0	0.30	2890	1460	-	32000
6901-2Z	12	24	6.0	0.30	2890	1460	27000	-
6901-2Z	12	24	6.0	0.30	2890	1460	27000	-
6702	15	21	4.0	0.20	1150	790	-	34000
6702-2Z	15	21	4.0	0.20	1150	790	28000	-
6802	15	24	5.0	0.30	2080	1260	-	31000
6802-2Z	15	24	5.0	0.30	2080	1260	26000	-
6802-2RS	15	24	5.0	0.30	2080	1260	26000	-
6902	15	28	7.0	0.30	4100	2060	-	28000
6902-2Z	15	28	7.0	0.30	4100	2060	24000	-
6902-2RS	15	28	7.0	0.30	4100	2060	24000	-
6703	17	23	4.0	0.20	1200	865	-	31000
6703-2Z	17	23	4.0	0.20	1200	865	26000	-
6803	17	26	5.0	0.30	2810	1720	-	28000
6803-2Z	17	26	5.0	0.30	2810	1720	24000	-
6803-2RS	17	26	5.0	0.30	2810	1720	24000	-
6903	17	30	7.0	0.30	4650	2580	-	26000
6903-2Z	17	30	7.0	0.30	4650	2580	22000	-
6903-2RS	17	30	7.0	0.30	4650	2580	22000	-
6704	20	27	4.0	0.20	1790	1320	-	28000
6704-2Z	20	27	4.0	0.20	1790	1320	23000	-
6804	20	32	7.0	0.30	4000	2470	-	25000
6804-2Z	20	32	7.0	0.30	4000	2470	21000	-
6804-2RS	20	32	7.0	0.30	4000	2470	21000	-



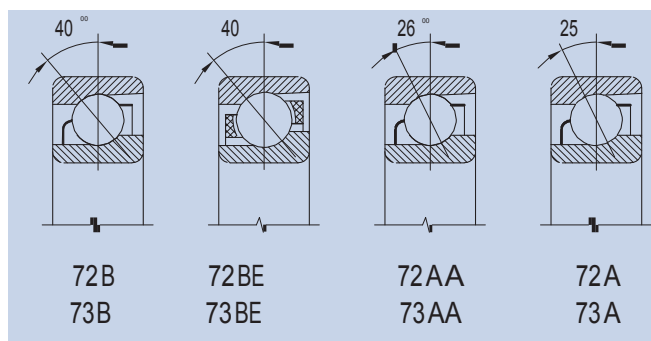
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Velocità limite Limiting Speed g./min.	
	d mm	D mm	B mm	r mm	Dynamic N	Static N	Grasso Grease	Olio Oil
6904	20	37	9.0	0.30	6400	3700	-	23000
6904-2Z	20	37	9.0	0.30	6400	3700	19000	-
6904-2RS	20	37	9.0	0.30	6400	3700	19000	-
6705	25	32	4.0	0.20	1830	1560	-	23000
6705-2Z	25	32	4.0	0.20	1830	1560	19000	-
6805	25	37	7.0	0.30	4300	2950	-	21000
6805-2Z	25	37	7.0	0.30	4300	2950	18000	-
6805-2RS	25	37	7.0	0.30	4300	2950	18000	-
6905	25	42	9.0	0.30	7050	4550	-	19000
6905-2Z	25	42	9.0	0.30	7050	4550	16000	-
6905-2RS	25	42	9.0	0.30	7050	4550	16000	-



Cuscinetti Obliqui a Sfere
Angular Contact Ball Bearings

I cuscinetti obliqui a sfere sono del tipo non scomponibile. la retta passante al punto di contatto delle sfere con l'anello interno e dal punto di contatto delle sfere stesse con l'anello esterno forma un'angolo con la retta giacente su un piano radiale del cuscinetto denominato angolo di contatto. I cuscinetti a contatto obliquo oltre ai carichi radiali possono sopportare anche dei carichi assiali monodirezionali, inoltre poichè un carico radiale genera una forza assiale, tali cuscinetti vengono normalmente montati accoppiati e contrapposti. Disponibili nelle serie con angoli di contatto di 26° (standard sigla A) e con angoli di contatto di 40° (sigla B).

The angular contact ball bearings are non-separable type. the straight line passing through the point of contact of the balls with the inner ring and from the point of contact of the spheres themselves with the outer ring form an angle with the straight line lying on a radial plane of the bearing called contact angle. The angular contact bearings can bear radial loads in addition to axial loads also one-way, also as a radial load generates an axial force, these bearings are normally fitted and coupled conflict. Available in series with contact angles of 26° (standard abbreviation A) and with contact angles of 40° (abbreviation B).

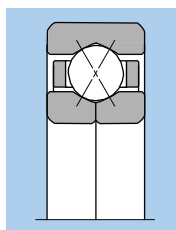


Cuscinetti a sfere a quattro punti di contatto

I cuscinetti obliqui a sfere a quattro punti di contatto hanno un'angolo di contatto di 30° e il loro anello interno è separato in due metà. Come illustrato nella figura quando l'anello interno o quello esterno sono soggetti a un carico radiale il contatto avviene in quattro punti. Questi cuscinetti possono sopportare carichi assiali bidirezionali e quando sono soggetti ad un solo carico assiale normale o elevato i cuscinetti si comportano come quelli obliqui normali a due punti di contatto.

Ball bearings Four-point contact

Angular contact rub against four contact points have an angle of 30° contact and their inner ring is separated into two halves. As illustrated in the figure when the inner ring or the outer one are subject to a radial load the contact takes place at four points. These bearings can withstand axial load and bi-directional when subjected to an axial load only normal or high bearings behave like normal oblique to two contact points.

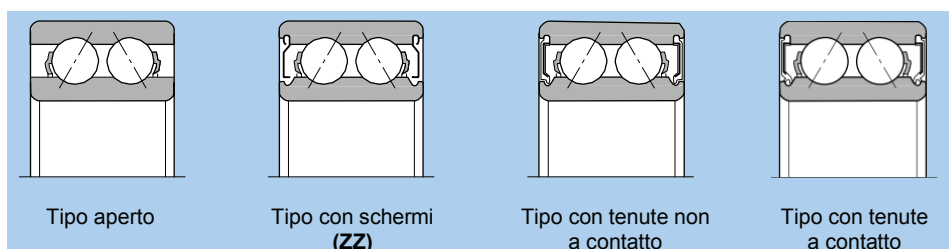


Cuscinetti obliqui a sfere a due corone

La struttura dei cuscinetti obliqui a sfere a due corone è realizzata accoppiando due cuscinetti obliqui a sfere in modo da formare un unico cuscinetto con angolo di contatto di 30°. Questi cuscinetti possono sopportare carichi radiali, spinte assiali in entrambe le direzioni ed hanno anche una elevata capacità di assorbimento di coppie ribaltanti. Come illustrato nella figura seguente sono disponibili cuscinetti obliqui a sfere a due corone nell'esecuzione con schermi o con tenute. I coefficienti di carico dei cuscinetti con schermi o tenute sono diversi da quelli dei cuscinetti in esecuzione aperta.

Angular contact ball bearings Double Row

The structure of angular contact ball bearings double row is realized coupling two angular contact ball bearings so as to form a single bearing with contact angle of 30°. These bearings can withstand radial loads, axial loads in both directions and also have a high absorption capacity of tilting moments. As shown in the figure below are available angular contact ball bearings double row in the 'running with shields or seals. The basic load ratings of bearings with shields or seals are different from those of open-type bearings.



Appellativi supplementari

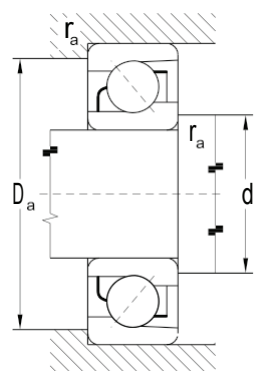
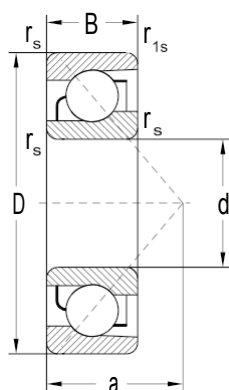
I suffissi nell'appellativo utilizzati per identificare alcune caratteristiche dei cuscinetti obliqui a sfere sono i seguenti:

- **A** - Angolo di contatto di 30°
- **AC** - Angolo di contatto di 25°
- **B** - Angolo di contatto di 40°
- **CA** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con gioco assiale interno inferiore al normale (CB) prima del montaggio.
- **CB** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con gioco interno normale prima del montaggio.
- **CC** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con gioco assiale interno maggiore rispetto al normale (CB) prima del montaggio.
- **DB** - Due cuscinetti disposti a "0"
- **DF** - Due cuscinetti disposti a "X"
- **DT** - Due cuscinetti disposti in tandem
- **E** - Esecuzione interna ottimizzata
- **F** - Gabbia massiccia a feritoie in acciaio centrata sulle sfere
- **GA** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con un leggero precarico prima del montaggio.
- **GB** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con un medio precarico prima del montaggio.
- **GC** - Cuscinetto per montaggio universale. Due cuscinetti disposti a "0" o "X" con un precarico elevato prima del montaggio.
- **J** - Gabbia a feritoie in lamiera d'acciaio stampata centrata sulle sfere.
- **M** - Gabbia massiccia in ottone a feritoie centrata sulle sfere, le varie esecuzioni sono identificate da un numero per esempio M1.
- **MB** - Gabbia massiccia in ottone centrata sull'anello interno.
- **P** - Gabbia stampata ad iniezione del tipo a feritoie in poliammide 6,6 rinforzata con fibre di vetro e centrata sulle sfere.
- **P5** - Precisione dimensionale e di rotazione secondo la classe di tolleranza 5 della norma ISO.
- **P6** - Precisione dimensionale e di rotazione secondo la classe di tolleranza 6 della norma ISO.
- **Y** - Gabbia in lamiera d'ottone stampata a feritoie centrata sulle sfere.

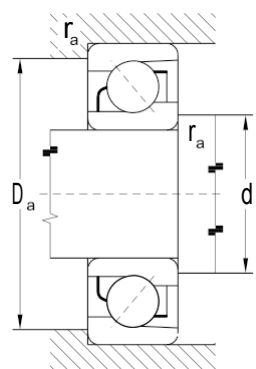
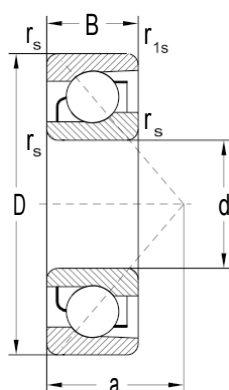
Supplementary designations

In the designation suffixes used to identify certain characteristics of angular contact ball bearings are as follows:

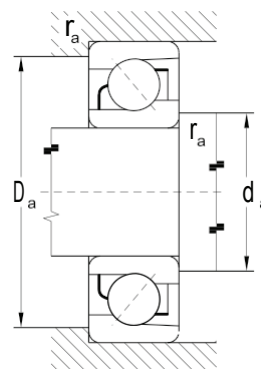
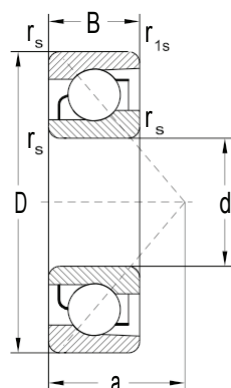
- **A** - Angle of 30 ° contact
- **AC** - contact angle of 25 °
- **B** - contact angle of 40 °
- **CA** - Bearing for universal matching. Two bearings arranged to "0" or "X" with axial internal lower than normal (CB) before mounting.
- **CB** - Bearing for universal matching. Two bearings arranged back to "0" or "X" with normal internal clearance before mounting.
- **CC** - Bearing for universal mounting. Two bearings arranged to "0" or "X" with axial internal greater than normal (CB) before mounting.
- **DB** - Two bearings arranged back to "0"
- **DF** - Two bearings arranged in an "X"
- **DT** - Two bearings arranged in tandem
- **E** - Execution optimized internal
- **F** - cage slotted steel ball centered
- **GA** - Bearing for universal matching. Two bearings arranged to "0" or "X" with a slight preload before mounting.
- **GB** - Bearing for universal mounting. Two bearings arranged back to "0" or "X" with a medium preload before mounting.
- **GC** - Bearing for universal matching. Two bearings arranged back to "0" or "X" with a heavy preload before mounting.
- **J** - Cage slotted in pressed steel ball centered.
- **M** - slotted brass cage centered on the balls, the various performances are identified by a number, for example M1.
- **MB** - brass cage centered on the inner ring.
- **P** - Injection molded cage-type slits in polyamide 6.6 reinforced with glass fibers and centered on the balls.
- **P5** - Dimensional and running accuracy to tolerance class 5 according to ISO standards.
- **P6** - Dimensional accuracy and rotation according to the tolerance class 6 of ISO.
- **Y** - sheet cage stamped brass slotted ball centered.



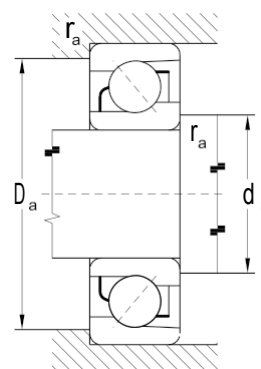
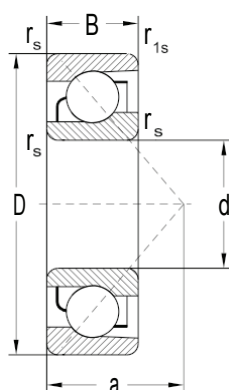
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7200 BEP	10	30	9	0.6	18.3	14.6	22.9	7.02	3.35	0.140	30000	30000	13.0	14.2	25.8	0.6	0.030
7200 BECBP	10	30	9	0.6	18.3	14.6	22.9	7.02	3.35	0.140	30000	30000	13.0	14.2	25.8	0.6	0.030
7201 BEP	12	32	10	0.6	20.2	16.6	25.0	7.61	3.80	0.160	26000	26000	14.4	16.2	27.8	0.6	0.036
7201 BECBP	12	32	10	0.6	20.2	16.6	25.0	7.61	3.80	0.160	26000	26000	14.4	16.2	27.8	0.6	0.036
7301 BEP	12	37	12	1.0	21.8	17.0	28.3	10.60	5.00	0.208	24000	24000	16.3	17.6	31.4	1.0	0.063
7202 BECBP	15	35	11	0.6	22.7	19.0	27.8	9.50	5.10	0.216	26000	26000	16.0	19.2	30.8	0.6	0.045
7202 BEP	15	35	11	0.6	22.7	19.0	27.8	8.84	4.80	0.204	24000	24000	16.0	19.2	30.8	0.6	0.045
7302 BEP	15	42	13	1.0	26.0	20.7	32.6	13.00	6.70	0.280	20000	20000	18.6	20.6	36.4	1.0	0.081
7302 BECBP	15	42	13	1.0	26.0	20.7	32.6	13.00	6.70	0.280	20000	20000	18.6	20.6	36.4	1.0	0.081
7203 BECBP	17	40	12	0.6	26.3	21.7	31.2	11.00	5.85	0.250	22000	22000	18.0	21.2	35.8	0.6	0.064
7203 BEP	17	40	12	0.6	26.3	21.7	31.2	10.40	5.50	0.236	20000	20000	18.0	21.2	35.8	0.6	0.064
7203 BEY	17	40	12	0.6	26.3	21.7	31.2	11.10	6.10	0.260	20000	20000	18.0	21.2	35.8	0.6	0.064
7203 BECBM	17	40	12	0.6	26.3	21.7	31.2	11.00	5.85	0.250	22000	22000	18.0	21.2	35.8	0.6	0.070
7303 BEP	17	47	14	1.0	28.7	22.8	36.2	15.90	8.30	0.355	19000	19000	20.4	22.6	41.4	1.0	0.110
7303 BECBP	17	40	14	1.0	28.7	22.8	36.2	15.90	8.30	0.355	19000	19000	20.4	22.6	41.4	1.0	0.110
7204 BECBP	20	47	14	1.0	30.8	25.9	36.5	14.30	8.15	0.345	19000	19000	21.0	25.6	41.4	1.0	0.110
7204 BEP	20	47	14	1.0	30.8	25.9	36.5	13.30	7.65	0.325	18000	18000	21.0	25.6	41.4	1.0	0.110
7204 BECBY	20	47	14	1.0	30.8	25.9	36.5	14.00	8.30	0.355	18000	18000	21.0	25.6	41.4	1.0	0.110
7204 BECBM	20	47	14	1.0	30.8	25.9	36.5	13.30	7.65	0.325	19000	19000	21.0	25.6	41.4	1.0	0.110
7304 BECBP	20	52	15	1.1	33.3	26.8	40.4	19.00	10.00	0.425	18000	18000	22.8	27.0	45.0	1.0	0.140
7304 BEP	20	52	15	1.1	33.3	26.8	40.4	17.40	9.50	0.400	16000	16000	22.8	27.0	45.0	1.0	0.140
7304 BEY	20	52	15	1.1	33.3	26.8	40.4	19.00	10.40	0.440	16000	16000	22.8	27.0	45.0	1.0	0.150
7304 BECBY	20	52	15	1.1	33.3	26.8	40.4	19.00	10.40	0.440	16000	16000	22.8	27.0	45.0	1.0	0.150
7304 BECBM	20	52	15	1.1	33.3	26.8	40.4	19.00	10.00	0.425	18000	18000	22.8	27.0	45.0	1.0	0.150
7205 BECBP	25	52	15	1.0	36.1	30.9	41.5	15.60	10.00	0.430	17000	17000	23.7	30.6	46.4	1.0	0.130
7205 BEP	25	52	15	1.0	36.1	30.9	41.5	14.80	9.30	0.400	15000	15000	23.7	30.6	46.4	1.0	0.130
7205 BEY	25	52	15	1.0	36.1	30.9	41.5	15.60	10.20	0.430	15000	15000	23.7	30.6	46.4	1.0	0.130
7205 BECBY	25	52	15	1.0	36.1	30.9	41.5	15.60	10.20	0.430	15000	15000	23.7	30.6	46.4	1.0	0.130
7205 BECBM	25	52	15	1.0	36.1	30.9	41.5	15.60	10.00	0.430	17000	17000	23.7	30.6	46.4	1.0	0.140



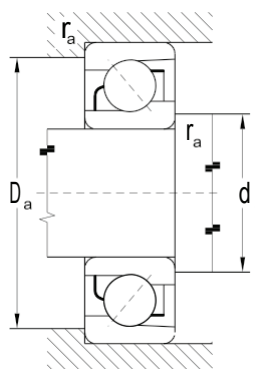
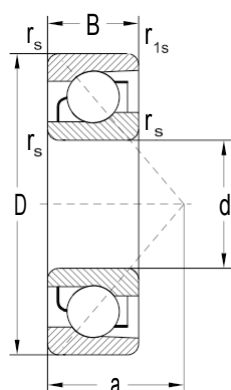
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7305 BECBP	25	62	17	1.10	39.8	32.4	48.1	26.50	15.30	0.655	15000	15000	26.8	32.0	55.0	1.0	0.230
7305 BEP	25	62	17	1.10	39.8	32.4	48.1	24.20	14.00	0.600	14000	14000	26.8	32.0	55.0	1.0	0.230
7305 BEY	25	62	17	1.10	39.8	32.4	48.1	26.00	15.60	0.655	14000	14000	26.8	32.0	55.0	1.0	0.240
7305 BECBY	25	62	17	1.10	39.8	32.4	48.1	26.00	15.60	0.655	14000	14000	26.8	32.0	55.0	1.0	0.240
7305 BECBM	25	62	17	1.10	39.8	32.4	48.1	26.50	15.30	0.655	15000	15000	26.8	32.0	55.0	1.0	0.240
7206 BECP	30	62	16	1.0	42.7	36.1	50.1	24.00	15.60	0.655	14000	14000	27.3	35.6	56.4	1.0	0.190
7206 BEP	30	62	16	1.0	42.7	36.1	50.1	22.50	14.30	0.610	13000	13000	27.3	35.6	56.4	1.0	0.190
7206 BEY	30	62	16	1.0	42.7	36.1	50.1	23.80	15.60	0.655	13000	13000	27.3	35.6	56.4	1.0	0.210
7206 BECBY	30	62	16	1.0	42.7	36.1	50.1	23.80	15.60	0.655	13000	13000	27.3	35.6	56.4	1.0	0.210
7206 BECBM	30	62	16	1.0	42.7	36.1	50.1	24.00	15.60	0.655	14000	14000	27.3	35.6	56.4	1.0	0.210
7306 BECBP	30	72	19	1.10	46.6	37.9	56.5	35.50	21.20	0.900	13000	13000	31.0	37.0	65.0	1.0	0.330
7306 BEP	30	72	19	1.10	46.6	37.9	56.5	32.50	19.30	0.815	12000	12000	31.0	37.0	65.0	1.0	0.330
7306 BEY	30	72	19	1.10	46.6	37.9	56.5	34.50	21.20	0.900	12000	12000	31.0	37.0	65.0	1.0	0.370
7306 BECBY	30	72	19	1.10	46.6	37.9	56.5	34.50	21.20	0.900	12000	12000	31.0	37.0	65.0	1.0	0.370
7306 BECBM	30	72	19	1.10	46.6	37.9	56.5	35.50	21.20	0.900	13000	13000	31.0	37.0	65.0	1.0	0.370
7207 BECBP	35	72	17	1.10	49.7	42.0	58.3	31.00	20.80	0.880	12000	12000	31.0	42.0	65.0	1.0	0.280
7207 BEP	35	72	17	1.10	49.7	42.0	58.3	29.10	19.00	0.815	11000	11000	31.0	42.0	65.0	1.0	0.280
7207 BEY	35	72	17	1.10	49.7	42.0	58.3	30.70	20.80	0.880	11000	11000	31.0	42.0	65.0	1.0	0.300
7207 BECBY	35	72	17	1.10	49.7	42.0	58.3	30.70	20.80	0.880	11000	11000	31.0	42.0	65.0	1.0	0.300
7207 BECBM	35	72	17	1.10	49.7	42.0	58.3	31.00	20.80	0.880	12000	12000	31.0	42.0	65.0	1.0	0.300
7307 BECBP	35	80	21	1.5	52.8	43.6	63.3	41.50	26.50	1.140	11000	11000	35.0	44.0	71.0	1.5	0.450
7307 BEP	35	80	21	1.5	52.8	43.6	63.3	39.00	24.50	1.040	10000	10000	35.0	44.0	71.0	1.5	0.450
7307 BEY	35	80	21	1.5	52.8	43.6	63.3	39.00	24.50	1.040	10000	10000	35.0	44.0	71.0	1.5	0.490
7307 BECBY	35	80	21	1.5	52.8	43.6	63.3	39.00	24.50	1.040	10000	10000	35.0	44.0	71.0	1.5	0.490
7307 BECBM	35	80	21	1.5	52.8	43.6	63.3	41.50	26.50	1.140	11000	11000	35.0	44.0	71.0	1.5	0.490
7208 BECBP	40	80	18	1.1	56.3	48.1	65.6	36.50	26.00	1.100	11000	11000	34.0	47.0	73.0	1.0	0.370
7208 BEP	40	80	18	1.1	56.3	48.1	65.6	34.50	24.00	1.020	10000	10000	34.0	47.0	73.0	1.0	0.370
7208 BEY	40	80	18	1.1	56.3	48.1	65.6	36.40	26.00	1.100	10000	10000	34.0	47.0	73.0	1.0	0.380
7208 BECBY	40	80	18	1.1	56.3	48.1	65.6	36.40	26.00	1.100	10000	10000	34.0	47.0	73.0	1.0	0.380



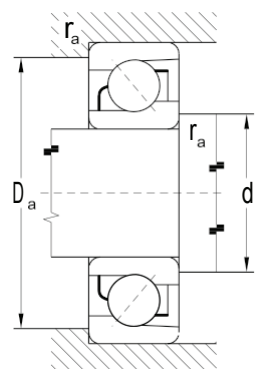
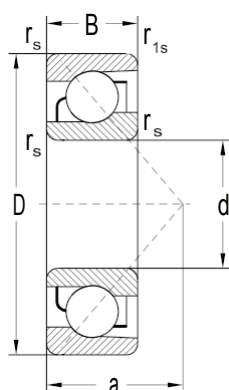
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7208 BECBM	40	80	18	1.1	56.3	48.1	65.6	36.50	26.00	1.100	11000	11000	34.0	47.0	73.0	1.0	0.390
7208 BEM	40	80	18	1.1	56.3	48.1	65.6	36.50	26.00	1.100	10000	10000	34.0	47.0	73.0	1.0	0.390
7308 BECBP	40	90	23	1.5	59.7	49.6	71.6	50.00	32.50	1.370	10000	10000	39.0	49.0	81.0	1.5	0.610
7308 BEP	40	90	23	1.5	59.7	49.6	71.6	46.20	30.50	1.130	9000	9000	39.0	49.0	81.0	1.5	0.610
7308 BEY	40	90	23	1.5	59.7	49.6	71.6	49.40	33.50	1.400	9000	9000	39.0	49.0	81.0	1.5	0.640
7308 BECBY	40	90	23	1.5	59.7	49.6	71.6	49.40	33.50	1.400	9000	9000	39.0	49.0	81.0	1.5	0.640
7308 BECBM	40	90	23	1.5	59.7	49.6	71.6	50.00	32.50	1.370	10000	10000	39.0	49.0	81.0	1.5	0.680
7209 BECBP	45	85	19	1.1	60.9	52.7	70.2	38.00	28.50	1.220	10000	10000	37.0	52.0	78.0	1.0	0.420
7209 BEP	45	85	19	1.1	60.9	52.7	70.2	35.80	26.00	1.120	9000	9000	37.0	52.0	78.0	1.0	0.420
7209 BEY	45	85	19	1.1	60.9	52.7	70.2	37.70	28.00	1.200	9000	9000	37.0	52.0	78.0	1.0	0.430
7209 BECBY	45	85	19	1.1	60.9	52.7	70.2	37.70	28.00	1.200	9000	9000	37.0	52.0	78.0	1.0	0.430
7209 BECBM	45	85	19	1.1	60.9	52.7	70.2	38.00	28.50	1.220	10000	10000	37.0	52.0	78.0	1.0	0.440
7309 BECBP	45	100	25	1.5	66.5	55.3	79.8	61.00	40.50	1.730	9000	9000	43.0	54.0	91.0	1.5	0.820
7309 BEP	45	100	25	1.5	66.5	55.3	79.8	55.90	37.50	1.730	8000	8000	43.0	54.0	91.0	1.5	0.820
7309 BEY	45	100	25	1.5	66.5	55.3	79.8	60.50	41.50	1.730	8000	8000	43.0	54.0	91.0	1.5	0.860
7309 BECBY	45	100	25	1.5	66.5	55.3	79.8	60.50	41.50	1.730	8000	8000	43.0	54.0	91.0	1.5	0.860
7309 BECBM	45	100	25	1.5	66.5	55.3	79.8	61.00	40.50	1.730	9000	9000	43.0	54.0	91.0	1.5	0.900
7210 BECBP	50	90	20	1.10	65.8	57.7	75.2	40.00	31.00	1.320	9000	9000	39.0	57.0	83.0	1.0	0.470
7210 BEP	50	90	20	1.1	65.8	57.7	75.2	37.70	28.50	1.220	8500	8500	39.0	57.0	83.0	1.0	0.470
7210 BEY	50	90	20	1.1	65.8	57.7	75.2	39.00	30.50	1.290	8500	8500	39.0	57.0	83.0	1.0	0.470
7210 BECBY	50	90	20	1.1	65.8	57.7	75.2	39.00	30.50	1.290	8500	8500	39.0	57.0	83.0	1.0	0.470
7210 BECBM	50	90	20	1.1	65.8	57.7	75.2	40.00	31.00	1.320	9000	9000	39.0	57.0	83.0	1.0	0.510
7310 BECBP	50	110	27	2.0	73.8	61.1	88.8	75.00	51.00	2.160	8000	8000	47.0	61.0	99.0	2.0	1.040
7310 BEP	50	110	27	2.0	73.8	61.1	88.8	68.90	47.50	2.000	7500	7500	47.0	61.0	99.0	2.0	1.040
7310 BEY	50	110	27	2.0	73.8	61.1	88.8	74.10	51.00	2.200	7500	7500	47.0	61.0	99.0	2.0	1.130
7310 BECBY	50	110	27	2.0	73.8	61.1	88.8	74.10	51.00	2.200	7500	7500	47.0	61.0	99.0	2.0	1.130
7310 BECBM	50	110	27	2.0	73.8	61.1	88.8	75.00	51.00	2.160	8000	8000	47.0	61.0	99.0	2.0	1.160
7211 BECBP	55	100	21	1.5	72.7	63.6	83.3	49.00	40.00	1.660	8000	8000	43.0	64.0	91.0	1.5	0.620
7211 BEP	55	100	21	1.5	72.7	63.6	83.3	46.20	36.00	1.530	7500	7500	43.0	64.0	91.0	1.5	0.620



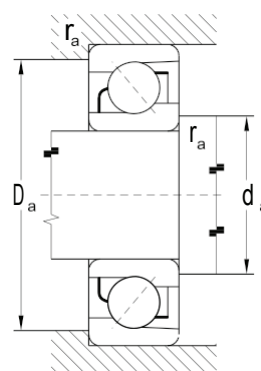
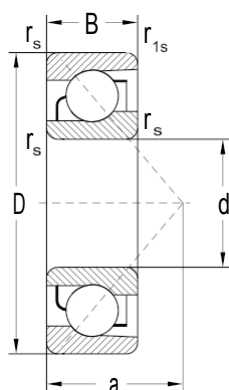
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	d _a mm	D _a mm	r _a mm	Kg
7211 BEY	55	100	21	1.5	72.7	63.6	83.3	48.80	38.00	1.630	7500	7500	43.0	64.0	91.0	1.5	0.620
7211 BECBY	55	100	21	1.5	72.7	63.6	83.3	48.80	38.00	1.630	7500	7500	43.0	64.0	91.0	1.5	0.620
7211 BECBM	55	100	21	1.5	72.7	63.6	83.3	49.00	40.00	1.660	8000	8000	43.0	64.0	91.0	1.5	0.660
7311 BECBP	55	120	29	2.0	80.3	66.7	96.6	85.00	60.00	2.550	7000	7000	51.0	66.0	109.0	2.0	1.340
7311 BEP	55	120	29	2.0	80.3	66.7	96.6	79.30	55.00	2.320	6700	6700	51.0	66.0	109.0	2.0	1.340
7311 BEY	55	120	29	2.0	80.3	66.7	96.6	85.20	60.00	2.550	6700	6700	51.0	66.0	109.0	2.0	1.480
7311 BECBY	55	120	29	2.0	80.3	66.7	96.6	85.20	60.00	2.550	6700	6700	51.0	66.0	109.0	2.0	1.480
7311 BECBM	55	120	29	2.0	80.3	66.7	96.6	85.00	60.00	2.550	7000	7000	51.0	66.0	109.0	2.0	1.490
7212 BECBP	60	110	22	1.5	79.6	69.3	91.6	61.00	50.00	2.120	7500	7500	47.0	69.0	101.0	1.5	0.780
7212 BEP	60	110	22	1.5	79.6	69.3	91.6	57.20	45.50	1.930	7000	7000	47.0	69.0	101.0	1.5	0.780
7212 BEY	60	110	22	1.5	79.6	69.3	91.6	57.20	45.50	1.930	7000	7000	47.0	69.0	101.0	1.5	0.830
7212 BECBY	60	110	22	1.5	79.6	69.3	91.6	57.20	45.50	1.930	7000	7000	47.0	69.0	101.0	1.5	0.830
7212 BECBM	60	110	22	1.5	79.6	69.3	91.6	61.00	50.00	2.120	7500	7500	47.0	69.0	101.0	1.5	0.850
7312 BECBP	60	130	31	2.1	87.3	72.6	104.8	104.00	76.50	3.200	6700	6700	55.0	72.0	118.0	2.0	1.710
7312 BEP	60	130	31	2.1	87.3	72.6	104.8	95.60	69.50	3.000	6000	6000	55.0	72.0	118.0	2.0	1.710
7312 BEY	60	130	31	2.1	87.3	72.6	104.8	95.60	69.50	3.000	6000	6000	55.0	72.0	118.0	2.0	1.750
7312 BECBY	60	130	31	2.1	87.3	72.6	104.8	95.60	69.50	3.000	6000	6000	55.0	72.0	118.0	2.0	1.750
7312 BECBM	60	130	31	2.1	87.3	72.6	104.8	104.00	76.50	3.200	6700	6700	55.0	72.0	118.0	2.0	1.880
7312 BEM	60	130	31	2.1	87.3	72.6	104.8	95.60	69.50	3.000	6300	6000	55.0	72.0	118.0	2.0	1.880
7213 BECBP	65	120	23	1.5	86.4	75.5	100.0	66.30	54.00	2.280	6300	6300	50.0	74.0	111.0	1.5	1.000
7213 BEP	65	120	23	1.5	86.4	75.5	100.0	66.30	54.00	2.280	6300	6300	50.0	74.0	111.0	1.5	1.000
7213 BEY	65	120	23	1.5	86.4	75.5	100.0	66.30	54.00	2.280	6300	6300	50.0	74.0	111.0	1.5	1.000
7213 BECBY	65	120	23	1.5	86.4	75.5	100.0	66.30	54.00	2.280	6300	6300	50.0	74.0	111.0	1.5	1.000
7213 BECBM	65	120	23	1.5	86.4	75.5	100.0	66.30	54.00	2.280	6700	6300	50.0	74.0	111.0	1.5	1.100
7313 BECBP	65	140	33	2.1	94.2	78.5	112.9	116.00	86.50	3.650	6300	6300	60.0	77.0	128.0	2.0	2.100
7313 BEP	65	140	33	2.1	94.2	78.5	112.9	108.00	80.00	3.350	5600	5600	60.0	77.0	128.0	2.0	2.150
7313 BECBY	65	140	33	2.1	94.2	78.5	112.9	108.0	80.00	3.350	5600	5600	60.0	77.0	128.0	2.0	2.150
7313 BECBM	65	140	33	2.1	94.2	78.5	112.9	116.00	86.50	3.650	6300	6300	60.0	77.0	128.0	2.0	2.310
7214 BECBP	70	125	24	1.5	91.5	80.3	104.8	75.00	64.00	2.700	6300	6300	53.0	79.0	116.0	1.5	1.100



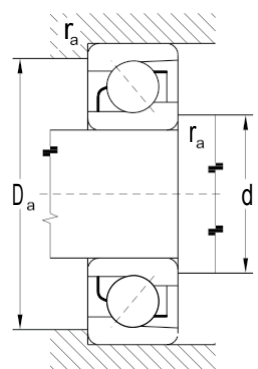
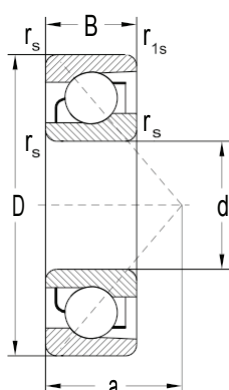
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7214 BEP	70	125	24	1.5	91.5	80.3	104.8	71.50	60.00	2.500	6000	6000	53.0	79.0	116.0	1.5	1.100
7214 BECBY	70	125	24	1.5	91.5	80.3	104.8	71.50	60.00	2.500	6000	6000	53.0	79.0	116.0	1.5	1.100
7214 BECBM	70	125	24	1.5	91.5	80.3	104.8	72.00	60.00	2.550	6300	6300	53.0	79.0	116.0	1.5	1.180
7314 BECBP	70	150	35	2.1	101.1	84.4	121.0	127.00	98.00	3.900	5600	5600	64.0	82.0	138.0	2.0	2.550
7314 BEP	70	150	35	2.1	101.1	84.4	121.0	119.00	90.00	3.650	5300	5300	64.0	82.0	138.0	2.0	2.670
7314 BECBY	70	150	35	2.1	101.1	84.4	121.0	119.00	90.00	3.650	5300	5300	64.0	82.0	138.0	2.0	2.670
7314 BECBM	70	150	35	2.1	101.1	84.4	121.0	127.00	98.00	3.900	5600	5600	64.0	82.0	138.0	2.0	2.830
7215 BEP	75	130	25	1.5	96.3	85.3	110.1	72.80	64.00	3.650	5600	5600	56.0	84.0	121.0	1.5	1.180
7215 BECBP	75	130	25	1.5	96.3	85.3	110.1	72.80	64.00	3.650	5600	5600	56.0	84.0	121.0	1.5	1.180
7215 BECBY	75	130	25	1.5	96.3	85.3	110.1	72.80	64.00	2.650	5600	5600	56.0	84.0	121.0	1.5	1.260
7215 BECBM	75	130	25	1.5	96.3	85.3	110.1	70.20	60.00	2.500	6000	5600	56.0	84.0	121.0	1.5	1.290
7315 BECBP	75	160	37	2.1	108.3	91.1	128.7	132.00	104.00	4.150	5300	5300	68.0	87.0	148.0	2.0	3.060
7315 BEP	75	160	37	2.1	108.3	91.1	128.7	125.00	98.00	3.800	5000	5000	68.0	87.0	148.0	2.0	3.060
7315 BECBY	75	160	37	2.1	108.3	91.1	128.7	133.00	106.00	4.150	5000	5000	68.0	87.0	148.0	2.0	3.200
7315 BECBM	75	160	37	2.1	108.3	91.1	128.7	132.00	104.00	4.150	5300	5300	68.0	87.0	148.0	2.0	3.260
7216 BECP	80	140	26	2.0	103.6	91.4	117.9	85.00	75.00	3.060	5600	5600	59.0	91.0	129.0	2.0	1.430
7216 BECBY	80	140	26	2.0	103.6	91.4	117.9	83.20	75.00	3.000	5300	5300	59.0	91.0	129.0	2.0	1.580
7216 BECBM	80	140	26	2.0	103.6	91.4	117.9	85.00	75.00	3.050	5600	5600	59.0	91.0	129.0	2.0	1.590
7316 BECP	80	170	39	2.1	115.2	97.1	136.8	143.00	118.00	4.500	5000	5000	72.0	92.0	158.0	2.0	3.640
7316 BEP	80	170	39	2.1	115.2	97.1	136.8	135.00	110.00	4.150	4500	4500	72.0	92.0	158.0	2.0	3.640
7316 BEY	80	170	39	2.1	115.2	97.1	136.8	143.00	118.00	4.500	4500	4500	72.0	92.0	158.0	2.0	3.700
7316 BECBY	80	170	39	2.1	115.2	97.1	136.8	143.00	118.00	4.500	4500	4500	72.0	92.0	158.0	2.0	3.700
7316 BECBM	80	170	39	2.1	115.2	97.1	136.8	143.00	118.00	4.500	5000	5000	72.0	92.0	158.0	2.0	4.030
7316 BEM	80	170	39	2.1	115.2	97.1	136.8	135.00	110.00	4.150	4800	4500	72.0	92.0	158.0	2.0	3.800
7217 BECBP	85	150	28	2.0	110.1	97.0	126.7	102.00	90.00	3.550	5300	5300	63.0	96.0	139.0	2.0	1.830
7217 BEP	85	150	28	2.0	110.1	97.0	126.7	95.60	83.00	3.250	5000	5000	63.0	96.0	139.0	2.0	1.830
7217 BECBY	85	150	28	2.0	110.1	97.0	126.7	95.60	83.00	3.250	5000	5000	63.0	96.0	139.0	2.0	1.830
7217 BECBM	85	150	28	2.0	110.1	97.0	126.7	95.60	83.00	3.250	5300	5000	63.0	96.0	139.0	2.0	1.990
7317 BECBP	85	180	41	3.0	122.3	103.0	145.0	156.00	132.00	4.900	4800	4800	76.0	99.0	166.0	2.5	4.260



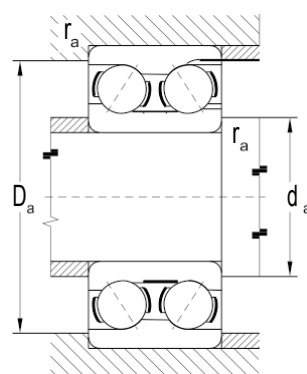
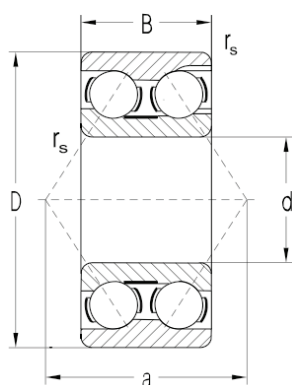
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7317 BEP	85	180	41	3.0	122.3	103.0	145.0	146.00	112.00	4.500	4300	4300	76.0	99.0	166.0	2.5	4.260
7317 BECBY	85	180	41	3.0	122.3	103.0	145.0	153.00	132.00	4.900	4300	4300	76.0	99.0	166.0	2.5	4.590
7317 BECBM	85	180	41	3.0	122.3	103.0	145.0	156.00	132.00	4.900	4800	4800	76.0	99.0	166.0	2.5	4.740
7317 BEM	85	180	41	3.0	122.3	103.0	145.0	146.00	112.00	4.500	4500	4300	76.0	99.0	160.0	2.5	4.740
7218 BECBP	90	160	30	2.0	117.1	103.0	134.8	116.00	104.00	4.000	4800	4800	67.0	101.0	149.0	2.0	2.120
7218 BEP	90	160	30	2.0	117.1	103.0	134.8	108.00	96.50	3.650	4500	4500	67.0	101.0	149.0	2.0	2.340
7218 BECBY	90	160	30	2.0	117.1	103.0	134.8	108.00	96.50	3.650	4500	4500	67.0	101.0	149.0	2.0	2.340
7218 BECBM	90	160	30	2.0	117.1	103.0	134.8	108.00	96.50	3.650	4800	4500	67.0	101.0	149.0	2.0	2.410
7318 BECBP	90	190	43	3.0	129.2	109.0	153.1	166.00	146.00	5.300	4500	4500	80.0	104.0	176.0	2.5	4.980
7318 BEP	90	190	43	3.0	129.2	109.0	153.1	156.00	134.00	4.800	4000	4000	80.0	104.0	176.0	2.5	4.980
7318 BECBY	90	190	43	3.0	129.2	109.0	153.1	165.00	146.00	5.200	4000	4000	80.0	140.0	176.0	2.5	5.220
7318 BECBM	90	190	43	3.0	129.2	109.0	153.1	166.00	146.00	5.300	4500	4500	80.0	140.0	176.0	2.5	5.530
7318 BEM	90	190	43	3.0	129.2	109.0	153.1	156.00	134.00	4.800	4300	4000	80.0	140.0	176.0	2.5	5.530
7219 BECBP	95	170	32	2.1	124.3	109.1	142.5	129.00	118.00	4.400	4800	4800	72.0	107.0	158.0	2.0	2.680
7219 BEP	95	170	32	2.1	124.3	109.1	142.5	124.00	108.00	4.000	4300	4300	72.0	107.0	158.0	2.0	2.680
7219 BECBY	95	170	32	2.1	124.3	109.1	142.5	124.00	108.00	4.000	4300	4300	72.0	107.0	158.0	2.0	2.820
7219 BECBM	95	170	32	2.1	124.3	109.1	142.5	129.00	118.00	4.400	4800	4800	72.0	107.0	158.0	2.0	2.950
7319 BECBP	95	200	45	3.0	136.2	114.9	161.3	180.00	163.00	5.700	4300	4300	84.0	109.0	186.0	2.5	5.770
7319 BEP	95	200	45	3.0	136.2	114.9	161.3	168.00	150.00	5.200	3800	3800	84.0	109.0	186.0	2.5	5.770
7319 BECBY	95	200	45	3.0	136.2	114.9	161.3	178.00	163.00	5.600	3800	3800	84.0	109.0	186.0	2.5	6.170
7319 BECBM	95	200	45	3.0	136.2	114.9	161.3	180.00	163.00	5.700	4300	4300	84.0	109.0	186.0	2.5	6.410
7319 BEM	95	200	45	3.0	136.2	114.9	161.3	168.00	150.00	5.200	4000	3800	84.0	109.0	186.0	2.5	6.410
7220 BECBP	100	180	34	2.1	131.0	115.2	150.9	143.00	134.00	4.750	4500	4500	76.0	112.0	168.0	2.0	3.290
7220 BEP	100	180	34	2.1	131.0	115.2	150.9	135.00	122.00	4.400	4000	4000	76.0	112.0	168.0	2.0	3.290
7220 BEY	100	180	34	2.1	131.0	115.2	150.9	135.00	122.00	4.400	4000	4000	76.0	112.0	168.0	2.0	3.380
7220 BECBY	100	180	34	2.1	131.0	115.2	150.9	135.00	122.00	4.400	4000	4000	76.0	112.0	168.0	2.0	3.380
7220 BECBM	100	180	34	2.1	131.0	115.2	150.9	135.00	122.00	4.400	4300	4000	76.0	112.0	168.0	2.0	3.610
7320 BECBP	100	215	47	3.0	144.5	120.5	173.4	216.00	208.00	6.950	4000	4000	90.0	114.0	201.0	2.5	7.170
7320 BEP	100	215	47	3.0	144.5	120.5	173.4	203.00	190.00	6.400	3600	3600	90.0	114.0	201.0	2.5	7.170



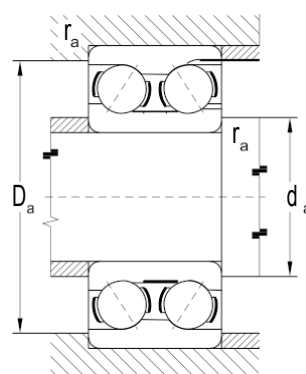
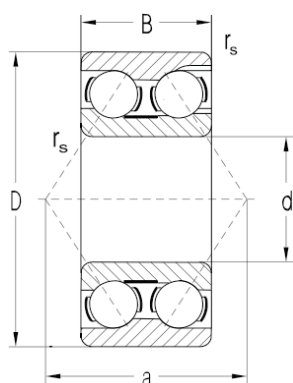
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7320 BEY	100	215	47	3.0	144.5	120.5	173.4	203.00	190.00	6.400	3600	3600	90.0	114.0	201.0	2.5	7.150
7320 BECBY	100	215	47	3.0	144.5	120.5	173.4	203.00	190.00	6.400	3600	3600	90.0	114.0	201.0	2.5	7.150
7320 BECBM	100	215	47	3.0	144.5	120.5	173.4	216.00	208.00	6.950	4000	4000	90.0	114.0	201.0	2.5	8.000
7320 BEM	100	215	47	3.0	144.5	120.5	173.4	216.00	208.00	6.950	3800	3600	90.0	114.0	201.0	2.5	8.000
7221 BECBP	105	190	36	2.1	138.0	121.2	159.1	156.00	150.00	5.200	4300	4300	80.0	117.0	178.0	2.0	3.820
7221 BECBM	105	190	36	2.1	138.0	121.2	159.1	148.00	137.00	4.800	4000	3800	80.0	117.0	178.0	2.0	4.180
7321 BECBP	105	225	49	3.0	151.7	127.9	181.4	228.00	228.00	7.500	3800	3800	94.0	119.0	211.0	2.5	8.460
7321 BECBM	105	225	49	3.0	151.7	127.9	181.4	203.00	193.00	6.400	3600	3400	94.0	119.0	211.0	2.5	9.120
7222 BECBP	110	200	38	2.1	144.9	127.1	167.4	170.00	166.00	4.700	4000	4000	84.0	122.0	188.0	2.0	4.600
7222 BECBY	110	200	38	2.1	144.9	127.1	167.4	163.00	153.00	5.200	3600	3600	84.0	122.0	188.0	2.0	4.750
7222 BEM	110	200	38	2.1	144.9	127.1	167.4	153.00	143.00	4.900	3800	3600	84.0	122.0	188.0	2.0	4.950
7222 BECBM	110	200	38	2.1	144.9	127.1	167.4	153.00	143.00	4.900	3800	3600	84.0	122.0	188.0	2.0	4.950
7322 BECBP	110	240	50	3.0	160.8	135.0	193.5	240.00	245.00	7.800	3600	3600	99.0	124.0	226.0	2.5	9.690
7322 BEY	110	240	50	3.0	160.8	135.0	193.5	225.00	224.00	7.200	3200	3200	99.0	124.0	226.0	2.5	9.690
7322 BECBY	110	240	50	3.0	160.8	135.0	193.5	225.00	224.00	7.200	3200	3200	99.0	124.0	226.0	2.5	9.690
7322 BEM	110	240	50	3.0	160.8	135.0	193.5	225.00	224.00	7.200	3400	3200	99.0	124.0	226.0	2.5	9.690
7322 BECBM	110	240	50	3.0	160.8	135.0	193.5	225.00	224.00	7.200	3400	3200	99.0	124.0	226.0	2.5	9.690
7224 BM	120	215	40	2.1	157.0	138.6	179.4	165.00	163.00	5.300	3600	3400	90.0	132.0	203.0	2.0	5.890
7224 BCBM	120	215	40	2.1	157.0	138.6	179.4	165.00	163.00	5.300	3600	3400	90.0	132.0	203.0	2.0	5.890
7324 BCBM	120	260	55	3.0	178.4	153.9	211.0	238.00	250.00	7.650	3200	3000	107.0	134.0	246.0	2.5	13.800
7226 BM	130	230	40	3.0	169.0	149.6	192.6	186.00	193.00	6.100	3400	3200	96.0	144.0	216.0	2.5	6.760
7226 BCBM	130	230	40	3.0	169.0	149.6	192.6	186.00	193.00	6.100	3400	3200	96.0	144.0	216.0	2.5	6.760
7326 BM	130	280	58	4.0	189.9	161.4	227.5	276.00	305.00	9.000	2800	2800	115.0	147.0	263.0	3.0	17.100
7326 BCBM	130	280	58	4.0	189.9	161.4	227.5	276.00	305.00	9.000	2800	2800	115.0	147.0	263.0	3.0	17.100
7228 BM	140	250	42	3.0	183.3	163.6	209.5	199.00	212.00	6.400	3000	2800	103.0	154.0	236.0	2.5	8.630
7228 BCBM	140	250	42	3.0	183.3	163.6	209.5	199.00	212.00	6.400	3000	2800	103.0	154.0	236.0	2.5	8.630
7328 BCBM	140	300	62	4.0	203.0	172.2	243.0	302.00	345.00	9.800	2600	2600	123.0	157.0	283.0	3.0	21.300
7230 BCBM	150	270	45	3.0	197.2	175.6	223.0	216.00	240.00	6.950	2800	2600	111.0	134.0	256.0	2.5	10.800
7330 BCBM	150	320	65	4.0	216.1	183.9	258.7	332.00	390.00	10.800	2400	2400	131.0	167.0	303.0	3.0	25.000



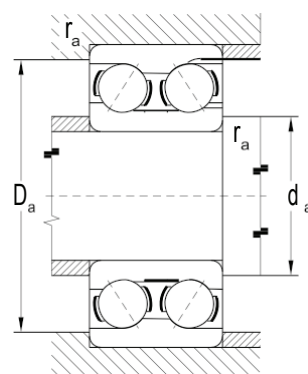
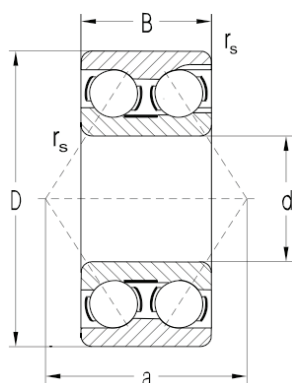
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r min	d1 mm	d2 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	a	da mm	Da mm	ra mm	Kg
7232 BCBM	160	290	48	3.0	211.0	187.6	242.3	255.00	300.00	8.500	2600	2400	118.0	174.0	276.0	2.5	13.600
7234 BCBM	170	310	52	4.0	227.4	202.0	261.0	281.00	345.00	9.500	2400	2400	127.0	187.0	293.0	3.0	16.700
7334 BCBM	170	360	72	4.0	243.8	207.9	292.0	390.00	490.00	12.700	2200	2000	147.0	187.0	343.0	3.0	34.600
7236 BCBM	180	320	52	4.0	234.9	209.6	268.8	291.00	375.00	10.000	2400	2200	131.0	197.0	303.0	3.0	17.600
7336 BCBM	180	380	75	4.0	257.7	219.8	308.0	410.00	540.00	13.700	2000	2000	156.0	197.0	363.0	3.0	40.000
7238 BCBM	190	340	55	4.0	250.4	224.1	285.4	307.00	405.00	10.400	2200	2000	139.0	207.0	323.0	3.0	21.900
7338 BCBM	190	400	78	5.0	271.6	231.8	324.3	442.00	600.00	14.600	1900	1900	164.0	210.0	380.0	4.0	48.300
7240 BCBM	200	360	58	4.0	263.3	235.1	300.8	325.00	430.00	11.000	2000	1800	146.0	217.0	343.0	3.0	25.000
7340 BCBM	200	420	80	5.00	287.0	247.0	339.5	462.00	655.00	15.600	1800	1800	170.0	220.0	400.0	4.0	52.800
7244 BCBM	220	400	65	4.0	291.1	259.1	333.4	390.00	560.00	13.400	1800	1800	164.0	237.0	383.0	3.0	35.200
7248 BCBM	240	440	72	4.0	322.0	292.0	361.0	364.00	540.00	12.500	1700	1600	180.0	257.0	423.0	3.0	49.000



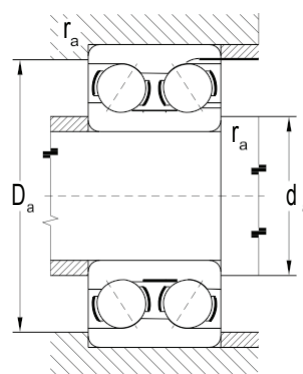
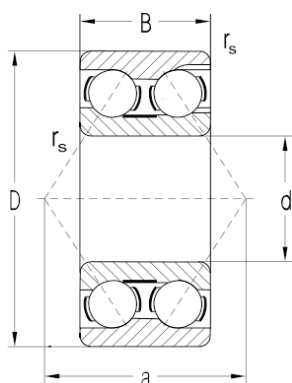
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
3200 ATN9	10	30	14.0	0.6	16	17.7	23.6	7.61	4.3	0.183	22000	24000	14.4	25.6	0.6	0.051
3201 ATN9	12	32	15.9	0.6	19	19.1	26.5	10.1	5.6	0.240	20000	22000	16.4	27.6	0.6	0.058
3202 ATN9	15	35	15.9	0.6	21	22.1	29.5	11.2	6.8	0.285	17000	18000	19.4	30.6	0.6	0.066
3302 ATN9	15	42	19.0	1.0	24	25.4	34.3	15.1	9.3	0.400	15000	16000	20.6	36.4	1.0	0.130
3203 ATN9	17	40	17.5	0.6	23	25.1	33.6	14.3	8.8	0.365	15000	16000	21.4	35.6	0.6	0.096
3303 ATN9	17	47	22.2	1.0	28	27.3	38.8	21.6	12.7	0.540	14000	14000	22.6	41.4	1.0	0.180
3204 A	20	47	20.6	1.0	28	27.7	40.9	20.0	12.0	0.510	14000	14000	25.6	41.4	1.0	0.160
3204 ATN9	20	47	20.6	1.0	28	27.7	40.9	20.0	12.0	0.510	14000	14000	25.6	41.4	1.0	0.160
3304 A	20	52	22.2	1.1	30	29.9	44.0	23.6	14.6	0.620	13000	13000	27.0	45.0	1.0	0.220
3304 ATN9	20	52	22.2	1.1	30	29.9	44.0	23.6	14.6	0.620	13000	13000	27.0	45.0	1.0	0.220
3205 A	25	52	20.6	1.0	30	32.7	45.9	21.6	14.3	0.600	12000	12000	30.6	46.4	1.0	0.180
3205 ATN9	25	52	20.6	1.0	30	32.7	45.9	21.6	14.3	0.600	12000	12000	30.6	46.4	1.0	0.180
3305 A	25	62	25.4	1.1	36	35.7	53.4	32.0	20.4	0.865	11000	11000	32.0	55.0	1.0	0.350
3305 ATN9	25	62	25.4	1.1	36	35.7	53.4	32.0	20.4	0.865	11000	11000	32.0	55.0	1.0	0.350
3206 A	30	62	23.8	1.0	36	38.7	55.2	30.0	20.4	0.865	10000	10000	35.6	56.4	1.0	0.290
3206 ATN9	30	62	23.8	1.0	36	38.7	55.2	30.0	20.4	0.865	10000	10000	35.6	56.4	1.0	0.290
3306 A	30	72	30.2	1.1	42	39.8	64.1	41.5	27.5	1.160	9000	9000	37.0	65.0	1.0	0.530
3306 ATN9	30	72	30.2	1.1	42	39.8	64.1	41.5	27.5	1.160	9000	9000	37.0	65.0	1.0	0.530
3207 A	35	72	27.0	1.1	42	45.4	63.9	40.0	28.0	1.180	9000	9000	42.0	65.0	1.0	0.440
3207 ATN9	35	72	27.0	1.1	42	45.4	63.9	40.0	28.0	1.180	9000	9000	42.0	65.0	1.0	0.440
3307 A	35	80	34.9	1.5	47	44.6	70.5	52.0	35.5	1.500	8500	8500	44.0	71.0	1.5	0.710
3307 ATN9	35	80	34.9	1.5	47	44.6	70.5	52.0	35.5	1.500	8500	8500	44.0	71.0	1.5	0.710
3208 A	40	80	30.2	1.1	46	47.8	72.1	47.5	34.0	1.430	8000	8000	47.0	73.0	1.0	0.580
3208 ATN9	40	80	30.2	1.1	46	47.8	72.1	47.5	34.0	1.430	8000	8000	47.0	73.0	1.0	0.580
3308 A	40	90	36.5	1.5	53	50.8	80.5	64.0	44.0	1.860	7500	7500	49.0	81.0	1.5	1.050
3308 ATN9	40	90	36.5	1.5	53	50.8	80.5	64.0	44.0	1.860	7500	7500	49.0	81.0	1.5	1.050
3209 A	45	85	30.2	1.1	49	52.8	77.1	51.0	39.0	1.630	7500	7500	52.0	78.0	1.0	0.630
3209 ATN9	45	85	30.2	1.1	49	52.8	77.1	51.0	39.0	1.630	7500	7500	52.0	78.0	1.0	0.630
3309 A	45	100	39.7	1.5	58	55.6	90.0	75.0	53.0	2.240	6700	6700	54.0	91.0	1.5	1.400



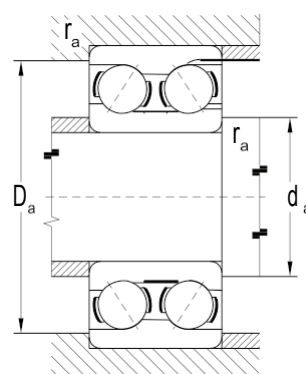
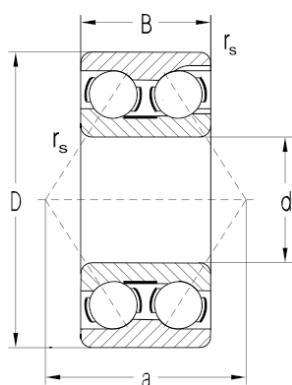
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
3309 ATN9	45	100	39.7	1.5	58	55.6	90.0	75.0	53.0	2.240	6700	6700	54.0	91.0	1.5	1.400
3210 A	50	90	30.2	1.1	52	57.8	82.1	51.0	39.0	1.660	7000	7000	57.0	83.0	1.0	0.660
3210 ATN9	50	90	30.2	1.1	52	57.8	82.1	51.0	39.0	1.660	7000	7000	57.0	83.0	1.0	0.660
3310 A	50	110	44.4	2.0	65	62.0	99.5	90.0	64.0	2.750	6000	6000	61.0	99.5	2.0	1.950
3310 ATN9	50	110	44.4	2.0	65	62.0	99.5	90.0	64.0	2.750	6000	6000	61.0	99.5	2.0	1.950
3211 A	55	100	33.3	1.5	57	63.2	92.3	60.0	47.5	2.000	6300	6300	63.0	92.3	1.5	1.050
3211 ATN9	55	100	33.3	1.5	57	63.2	92.3	60.0	47.5	2.000	6300	6300	63.0	92.3	1.5	1.050
3311 A	55	120	49.2	2.0	72	68.4	109.0	112.0	81.5	3.450	5300	5300	66.0	109.0	2.0	2.550
3311 ATN9	55	120	49.2	2.0	72	68.4	109.0	112.0	81.5	3.450	5300	5300	66.0	109.0	2.0	2.550
3212 A	60	110	36.5	1.5	63	68.8	101.0	73.5	58.5	2.500	5600	5600	69.0	101.0	1.5	1.400
3212 ATN9	60	110	36.5	1.5	63	68.8	101.0	73.5	58.5	2.500	5600	5600	69.0	101.0	1.5	1.400
3312 A	60	130	54	2.1	78	74.3	118.0	127.0	95.0	4.050	5000	5000	72.0	118.0	2.0	3.250
3213 A	65	120	38.1	1.5	71	85.0	103.0	80.6	73.5	3.100	4500	4800	74.0	111.0	1.5	1.750
3313 A	65	140	58.7	2.1	84	78.5	130.0	146.0	110.0	4.550	4500	4500	77.0	130.0	2.0	4.100
3214 A	70	125	39.7	1.5	74	88.5	107.0	88.4	80.0	3.400	4300	4500	79.0	116.0	1.5	1.900
3314 A	70	150	63.5	2.1	89	84.2	139.0	163.0	125.0	5.000	4300	4300	82.0	139.0	2.0	5.050
3215 A	75	130	41.3	1.5	77	91.9	112.0	95.6	88.0	3.750	4300	4500	84.0	121.0	1.5	2.100
3315 A	75	160	68.3	2.1	97	88.8	147.0	176.0	140.0	5.500	4000	4000	87.0	148.0	2.0	5.550
3216 A	80	140	44.4	2.0	82	97.7	120.0	106.0	95.0	3.900	4000	4300	91.0	129.0	2.0	2.650
3316 A	80	170	68.3	2.1	101	108.0	143.0	182.0	156.0	6.000	3400	3600	92.0	158.0	2.0	6.800
3217 A	85	150	49.2	2.0	88	104.0	128.0	124.0	110.0	4.400	3600	3800	96.0	139.0	2.0	3.400
3317 A	85	180	73.0	3.0	107	116.0	153.0	195.0	176.0	6.550	3200	3400	99.0	166.0	2.5	8.300
3218 A	90	160	52.4	2.0	94	111.0	139.0	130.0	120.0	4.550	3400	3600	101.0	149.0	2.0	4.150
3318 A	90	190	73	3.0	112	123.0	160.0	195.0	180.0	6.400	3000	3200	104.0	176.0	2.5	9.250
3219 A	95	170	55.6	2.10	101	119.0	147.0	159.0	146.0	5.400	3200	3400	107.0	158.0	2.0	5.000
3319 A	95	200	77.8	3.0	118	127.0	168.0	225.0	216.0	7.500	2800	3000	109.0	186.0	2.5	11.000
3220 A	100	180	60.3	2.1	107	125.0	155.0	178.0	166.0	6.000	3000	3200	112.0	168.0	2.0	6.100
3320 A	100	215	82.6	3.0	127	136.0	180.0	255.0	255.0	8.650	2600	2800	114.0	201.0	2.5	13.500
3222 A	110	200	69.8	2.1	119	139.0	173.0	212.0	212.0	7.200	2800	2800	122.0	188.0	2.0	8.800



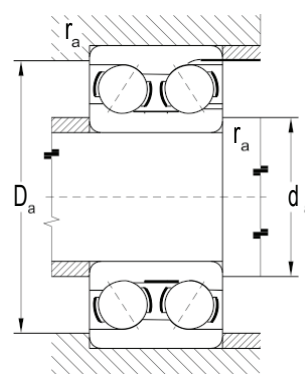
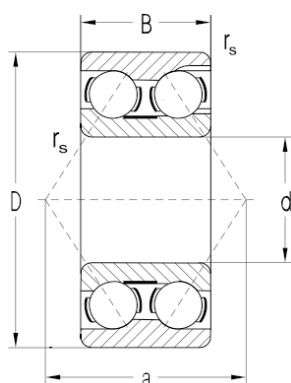
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d_a mm	D_a mm	r_a mm	Kg
3322 A	110	240	92.1	3.0	142	153.0	200.0	291.0	305.0	9.800	2400	2600	124.0	226.0	2.5	19.000
3200 A-2Z	10	30	14.0	0.6	16	15.8	25.0	7.61	4.3	0.183	24000	17000	14.4	25.6	0.6	0.051
3200 A-2RS	10	30	14.0	0.6	16	15.8	25.0	7.61	4.3	0.183	24000	17000	14.4	25.6	0.6	0.051
3201 A-2Z	12	32	15.9	0.6	19	17.2	27.7	10.1	5.6	0.240	22000	15000	16.4	27.7	0.6	0.058
3201 A-2RS	12	32	15.9	0.6	19	17.2	27.7	10.1	5.6	0.240	22000	15000	16.4	27.7	0.6	0.058
3202 A-2Z	15	35	15.9	0.6	21	20.2	30.7	11.2	6.8	0.285	18000	14000	19.4	30.7	0.6	0.066
3202 A-2RS	15	35	15.9	0.6	21	20.2	30.7	11.2	6.8	0.285	18000	14000	19.4	30.7	0.6	0.066
3302 A-2Z	15	42	19.0	1.0	24	23.7	35.7	15.1	9.3	0.400	16000	12000	20.6	36.4	1.0	0.130
3302 A-2RS	15	42	19.0	1.0	24	23.7	35.7	15.1	9.3	0.400	16000	12000	20.6	36.4	1.0	0.130
3203 A-2Z	17	40	17.5	0.6	23	23.3	35.0	14.3	8.8	0.365	16000	12000	21.4	35.6	0.6	0.100
3203 A-2RS	17	40	17.5	0.6	23	23.3	35.0	14.3	8.8	0.365	16000	12000	21.4	35.6	0.6	0.100
3303 A-2Z	17	47	22.2	1.0	28	25.7	40.2	21.6	12.7	0.540	14000	11000	22.6	41.4	1.0	0.180
3303 A-2RS	17	47	22.2	1.0	28	25.7	40.2	21.6	12.7	0.540	14000	11000	22.6	41.1	1.0	0.180
3204 A-2Z	20	47	20.6	1.0	28	27.7	40.9	20.0	12.0	0.510	14000	10000	25.6	41.4	1.0	0.160
3204 A-2RS	20	47	20.6	1.0	28	27.7	40.9	20.0	12.0	0.510	14000	10000	25.6	41.4	1.0	0.160
3304 A-2Z	20	52	22.2	1.1	30	29.9	44.0	23.6	14.6	0.620	13000	9000	27.0	29.5	1.0	0.220
3304 A-2RS	20	52	22.2	1.1	30	29.9	44.0	23.6	14.6	0.620	13000	9000	27.0	29.5	1.0	0.220
3205 A-2Z	25	52	20.6	1.0	30	32.7	45.9	21.6	14.3	0.600	12000	8500	30.6	46.4	1.0	0.180
3205 A-2RS	25	52	20.6	1.0	30	32.7	45.9	21.6	14.3	0.600	12000	8500	30.6	46.4	1.0	0.180
3305 A-2Z	25	62	25.4	1.1	36	35.7	53.4	32.0	20.4	0.865	11000	7500	32.0	55.0	1.0	0.350
3305 A-2RS	25	62	25.4	1.1	36	35.7	53.4	32.0	20.4	0.865	11000	7500	32.0	55.0	1.0	0.350
3206 A-2Z	30	62	23.8	1.0	36	38.7	55.2	30.0	20.4	0.865	10000	7500	35.6	56.4	1.0	0.290
3206 A-2RS	30	62	23.8	1.0	36	38.7	55.2	30.0	20.4	0.865	10000	7500	35.6	56.4	1.0	0.290
3306 A-2Z	30	72	30.2	1.1	42	39.8	64.1	41.5	27.5	1.160	9000	6300	37.0	65.0	1.0	0.520
3306 A-2RS	30	72	30.2	1.1	42	39.8	64.1	41.5	27.5	1.160	9000	6300	37.0	65.0	1.0	0.520
3207 A-2Z	35	72	27.0	1.1	42	45.4	63.9	40.0	28.0	1.180	9000	6300	42.0	65.0	1.0	0.440
3207 A-2RS	35	72	27.0	1.1	42	45.5	63.9	40.0	28.0	1.180	9000	6300	42.0	65.0	1.0	0.440
3307 A-2Z	35	80	34.9	1.5	47	44.6	70.5	52.0	35.5	1.500	8500	6000	44.0	44.5	1.5	0.730
3307 A-2RS	35	80	34.9	1.5	47	44.6	70.5	52.0	35.5	1.500	8500	6000	44.0	44.5	1.5	0.730



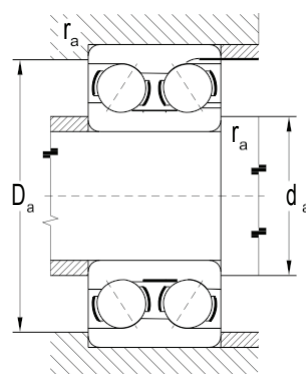
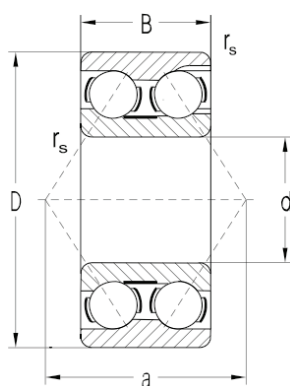
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
3208 A-2Z	40	80	30.2	1.1	46	47.8	72.1	47.5	34.0	1.430	8000	5600	47.0	73.0	1.0	0.570
3208 A-2RS	40	80	30.2	1.1	46	47.8	72.1	47.5	34.0	1.430	8000	5600	47.0	73.0	1.0	0.570
3308 A-2Z	40	90	36.5	1.5	53	50.8	80.5	64.0	44.0	1.860	7500	5000	49.0	81.0	1.5	0.930
3308 A-2RS	40	90	36.5	1.5	53	50.8	80.5	64.0	44.0	1.860	7500	5000	49.0	81.0	1.5	0.930
3209 A-2Z	45	85	30.2	1.1	49	52.8	77.1	51.0	39.0	1.630	7500	5300	52.0	78.0	1.0	0.630
3209 A-2RS	45	85	30.2	1.1	49	52.8	77.1	51.0	39.0	1.630	7500	5300	52.0	78.0	1.0	0.630
3309 A-2Z	45	100	39.7	1.5	58	55.6	90.0	75.0	53.0	2.240	6700	4800	54.0	91.0	1.5	1.250
3309 A-2RS	45	100	39.7	1.5	58	55.6	90.0	75.0	53.0	2.240	6700	4800	54.0	91.0	1.5	1.250
3210 A-2Z	50	90	30.2	1.1	52	57.8	82.1	51.0	39.0	1.660	7000	4800	57.0	83.0	1.0	0.650
3210 A-2RS	50	90	30.2	1.1	52	57.8	82.1	51.0	39.0	1.660	7000	4800	57.0	83.0	1.0	0.650
3310 A-2Z	50	110	44.4	2.0	65	62.0	99.5	90.0	64.0	2.750	6000	4300	61.0	99.5	2.0	1.700
3310 A-2RS	50	110	44.4	2.0	65	62.0	99.5	90.0	64.0	2.750	6000	4300	61.0	99.5	2.0	1.700
3211 A-2Z	55	100	33.3	1.5	57	63.2	92.3	60.0	47.5	2.000	6300	4500	63.0	92.3	1.5	0.910
3211 A-2RS	55	100	33.3	1.5	57	63.2	92.3	60.0	47.5	2.000	6300	4500	63.0	92.3	1.5	0.910
3311 A-2Z	55	120	49.2	2.0	72	68.4	109.0	112.0	81.5	3.450	5300	3800	66.0	109.0	2.0	2.650
3311 A-2RS	55	120	49.2	2.0	72	68.4	109.0	112.0	81.5	3.450	5300	3800	66.0	109.0	2.0	2.650
3212 A-2Z	60	110	36.5	1.5	63	68.8	101.0	73.5	58.5	2.500	5600	4000	68.5	101.0	1.5	1.200
3212 A-2RS	60	110	36.5	1.5	63	68.8	101.0	73.5	58.5	2.500	5600	4000	68.5	101.0	1.5	1.200
3312 A-2Z	60	130	54.0	2.1	78	73.4	118.0	127.0	95.0	4.050	5000	5000	72.0	118.0	2.0	2.800
3213 A-2Z	65	120	38.1	1.5	71	76.3	113.0	80.6	73.5	3.100	4800	3600	74.0	113.0	1.5	1.750
3213 A-2RS	65	120	38.1	1.5	71	76.3	113.0	80.6	73.5	3.100	4800	3600	74.0	113.0	1.5	1.750
3313 A-2Z	65	140	58.7	2.1	84	78.5	130.0	146.0	110.0	4.550	4500	4500	77.0	130.0	2.0	4.100
3214 A-2Z	70	125	39.7	1.5	74	82.0	118.0	88.4	80.0	3.400	4500	4500	79.0	118.0	1.5	1.900
3314 A-2Z	70	150	63.5	2.1	89	84.2	139.0	163.0	125.0	5.000	4300	4300	82.0	139.0	2.0	5.050
3215 A-2Z	75	130	41.3	1.5	77	84.6	123.0	95.6	88.0	3.750	4500	4500	84.0	123.0	1.5	2.100
3315 A-2Z	75	160	68.3	2.1	97	88.8	147.0	176.0	140.0	5.500	4000	4000	87.0	148.0	2.0	5.600



Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
QJ 202 N2MA	15	35	11	0.6	18	22.0	28.1	12.7	8.3	0.36	22000	36000	19.2	30.8	0.6	0.062
QJ 203 N2MA	17	40	12	0.6	20	23.5	32.5	17.0	11.4	0.45	22000	30000	21.2	35.8	0.6	0.082
QJ 303 N2MA	17	47	14	1.0	22	27.7	36.3	23.4	15.0	0.64	17000	28000	22.6	41.4	1.0	0.140
QJ 304 N2MA	20	52	15	1.1	25	27.5	40.8	32.0	21.6	0.85	18000	24000	27.0	45.0	1.0	0.180
QJ 304 MA	20	52	15	1.1	25	27.5	40.8	32.0	21.6	0.85	18000	24000	27.0	45.0	1.0	0.180
QJ 205 N2MA	25	52	15	1.0	27	31.5	43.0	27.0	21.2	0.830	16000	22000	30.6	46.4	1.0	0.160
QJ 205 MA	25	52	15	1.0	27	31.5	43.0	27.0	21.2	0.830	16000	22000	30.6	46.4	1.0	0.160
QJ 305 N2MA	25	62	17	1.1	30	34.0	49.0	42.5	30.0	1.180	15000	20000	32.0	55.0	1.0	0.290
QJ 305 MA	25	62	17	1.1	30	34.0	49.0	42.5	30.0	1.180	15000	20000	32.0	55.0	1.0	0.290
QJ 206 N2MA	30	62	16	1.0	32	37.5	50.8	37.5	30.5	1.200	14000	19000	35.6	56.4	1.0	0.240
QJ 206 MA	30	62	16	1.0	32	37.5	50.8	37.5	30.5	1.200	14000	19000	35.6	56.4	1.0	0.240
QJ 306 N2MA	30	72	19	1.1	36	40.5	58.2	53.0	41.5	1.630	12000	17000	37.0	65.0	1.0	0.420
QJ 306 MA	30	72	19	1.1	36	40.5	58.2	53.0	41.5	1.630	12000	17000	37.0	65.0	1.0	0.420
QJ 207 N2MA	35	72	17	1.1	37	44.0	59.0	49.0	41.5	1.630	12000	17000	42.0	65.0	1.0	0.360
QJ 307 N2MA	35	80	21	1.5	40	46.2	64.3	64.0	51.0	1.960	11000	15000	44.0	71.0	1.5	0.570
QJ 307 MA	35	80	21	1.5	40	46.2	64.3	64.0	51.0	1.960	11000	15000	44.0	71.0	1.5	0.570
QJ 208 N2MA	40	80	18	1.1	42	49.5	66.0	56.0	49.0	1.900	11000	15000	47.0	73.0	1.0	0.450
QJ 208 MA	40	80	18	1.1	42	49.5	66.0	56.0	49.0	1.900	11000	15000	47.0	73.0	1.0	0.450
QJ 308 N2MA	40	90	23	1.5	46	52.0	72.5	78.0	64.0	2.450	10000	14000	49.0	81.0	1.5	0.780
QJ 308 MA	40	90	23	1.5	46	52.0	72.5	78.0	64.0	2.450	10000	14000	49.0	81.0	1.5	0.780
QJ 209 MA	45	85	19	1.1	46	54.5	72.0	63.0	56.0	2.160	10000	14000	52.0	78.0	1.0	0.520
QJ 309 N2MA	45	100	25	1.5	51	58.0	81.2	100.0	83.0	3.250	9000	12000	54.0	91.0	1.5	1.050
QJ 309 MA	45	100	25	1.5	51	58.0	81.2	100.0	83.0	3.250	9000	12000	54.0	91.0	1.5	1.050
QJ 210 MA	50	90	20	1.1	49	59.5	76.5	65.5	61.0	2.400	9000	13000	57.0	83.0	1.0	0.590
QJ 310 MA	50	110	27	2.0	56	65.0	90.0	118.0	100.0	3.900	8000	11000	61.0	99.0	2.0	1.350
QJ 211 N2MA	55	100	21	1.5	54	66.0	84.7	85.0	83.0	3.200	8000	11000	64.0	91.0	1.5	0.770
QJ 211 MA	55	100	21	1.5	54	66.0	84.7	85.0	83.0	3.200	8000	11000	64.0	91.0	1.5	0.770
QJ 311 N2MA	55	120	29	2.0	61	70.5	97.8	137.0	118.0	4.550	7000	10000	66.0	109.0	2.0	1.750
QJ 311 MA	55	120	29	2.0	61	70.5	97.8	137.0	118.0	4.550	7000	10000	66.0	109.0	2.0	1.750



Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
QJ 212 N2MA	60	110	22	1.5	60	72.0	93.0	96.5	93.0	3.650	7500	10000	69.0	101.0	1.5	0.990
QJ 212 MA	60	110	22	1.5	60	72.0	93.0	96.5	93.0	3.650	7500	10000	69.0	101.0	1.5	0.990
QJ 312 N2MA	60	130	31	2.1	67	77.0	106.0	156.0	137.0	5.300	6700	9000	72.0	118.0	2.0	2.150
QJ 312 MA	60	130	31	2.1	67	77.0	106.0	156.0	137.0	5.300	6700	9000	72.0	118.0	2.0	2.150
QJ 213 N2MA	65	120	23	1.5	65	78.5	101.0	110.0	112.0	4.400	6700	9500	74.0	111.0	1.5	1.200
QJ 213 MA	65	120	23	1.5	65	78.5	101.0	110.0	112.0	4.400	6700	9500	74.0	111.0	1.5	1.200
QJ 313 MA	65	140	33	2.1	72	82.5	115.0	176.0	156.0	6.100	6300	8500	77.0	128.0	2.0	2.700
QJ 214 N2MA	70	125	24	1.5	68	83.5	106.0	120.0	122.0	4.800	6300	9000	79.0	116.0	1.5	1.320
QJ 214 MA	70	125	24	1.5	68	83.5	106.0	120.0	122.0	4.800	6300	9000	79.0	116.0	1.5	1.320
QJ 314 N2MA	70	150	35	2.1	77	89.0	123.0	200.0	180.0	6.700	5600	8000	82.0	138.0	2.0	3.150
QJ 314 MA	70	150	35	2.1	77	89.0	123.0	200.0	180.0	6.700	5600	8000	82.0	138.0	2.0	3.150
QJ 215 N2MA	75	130	25	1.5	72	88.5	112.0	125.0	132.0	5.200	6300	8500	84.0	121.0	1.5	1.450
QJ 215 MA	75	130	25	1.5	72	88.5	112.0	125.0	132.0	5.200	6300	8500	84.0	121.0	1.5	1.450
QJ 315 N2MA	75	160	37	2.1	82	104.0	131.0	199.0	186.0	7.350	4500	7500	87.0	148.0	2.0	3.900
QJ 216 N2MA	80	140	26	2.0	77	95.3	120.0	146.0	156.0	5.850	5600	8000	91.0	129.0	2.0	1.850
QJ 216 MA	80	140	26	2.0	77	95.3	120.0	146.0	156.0	5.850	5600	8000	91.0	129.0	2.0	1.850
QJ 316 N2MA	80	170	39	2.1	88	111.0	139.0	216.0	208.0	8.000	4300	7000	92.0	158.0	2.0	4.600
QJ 217 N2MA	85	150	28	2.0	83	100.0	128.0	156.0	173.0	6.200	5300	7500	96.0	139.0	2.0	2.250
QJ 217 MA	85	150	28	2.0	83	100.0	128.0	156.0	173.0	6.200	5300	7500	96.0	139.0	2.0	2.250
QJ 317 N2MA	85	180	41	3.0	93	117.0	148.0	234.0	236.0	8.650	4000	6700	99.0	166.0	2.5	5.450
QJ 218 N2MA	90	160	30	2.0	88	114.0	136.0	174.0	186.0	6.950	4300	7000	101.0	149.0	2.0	2.750
QJ 318 N2MA	90	190	43	3.0	98	124.0	156.0	265.0	285.0	10.200	3800	6300	104.0	176.0	2.5	6.450
QJ 219 N2MA	95	170	32	2.1	93	120.0	145.0	199.0	212.0	7.800	4000	6700	107.0	158.0	2.0	3.350
QJ 319 N2MA	95	200	45	3.0	103	131.0	165.0	286.0	315.0	11.000	3600	6000	109.0	186.0	2.5	7.450
QJ 220 N2MA	100	180	34	2.1	98	127.0	153.0	225.0	240.0	8.650	3800	6300	112.0	168.0	2.0	4.050
QJ 320 N2MA	100	215	47	3.0	110	139.0	176.0	307.0	340.0	11.600	3400	5600	114.0	201.0	2.5	9.300
QJ 222 N2MA	110	200	38	2.1	109	141.0	169.0	265.0	305.0	10.400	3400	5600	122.0	188.0	2.0	5.600
QJ 322 N2MA	110	240	50	3.0	123	154.0	196.0	390.0	475.0	15.000	3000	4800	124.0	226.0	2.5	12.500
QJ 224 N2MA	120	215	40	2.1	117	152.0	183.0	286.0	340.0	11.200	3200	5000	132.0	203.0	2.0	6.950



Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r mm	a mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
QJ 324 N2MA	120	260	55	3.0	133	169.0	211.0	390.0	490.0	15.000	2800	4500	134.0	246.0	2.5	16.000
QJ 226 N2MA	130	230	40	3.0	126	165.0	195.0	296.0	365.0	11.600	2800	4800	144.0	216.0	2.5	7.750
QJ 326 N2MA	130	80	58	4.0	144	182.0	227.0	423.0	560.0	16.600	2600	4000	147.0	263.0	3.0	19.500
QJ 228 N2MA	140	250	42	3.0	137	179.0	211.0	325.0	440.0	13.200	2600	4300	154.0	236.0	2.5	9.850
QJ 328 N2MA	140	300	62	4.0	154	196.0	244.0	468.0	640.0	18.600	2400	3800	157.0	283.0	3.0	24.000
QJ 230 N2MA	150	270	45	3.0	147	194.0	226.0	377.0	530.0	15.300	2400	4000	164.0	256.0	2.5	12.500
QJ 330 N2MA	150	320	65	4.0	165	211.0	259.0	494.0	710.0	19.600	2200	3600	167.0	303.0	3.0	29.000
QJ 232 N2MA	160	290	48	3.0	158	206.0	243.0	423.0	620.0	17.600	2200	3800	174.0	276.0	2.5	15.500
QJ 332 N2MA	160	340	68	4.0	175	224.0	276.0	540.0	815.0	21.600	2000	3400	177.0	323.0	3.0	34.500
QJ 234 N2MA	170	310	52	4.0	168	221.0	258.0	436.0	670.0	18.300	2200	3400	187.0	293.0	3.0	19.500
QJ 334 N2MA	170	360	72	4.0	186	237.0	293.0	618.0	965.0	25.000	1900	3200	187.0	343.0	3.0	41.500
QJ 236 N2MA	180	320	52	4.0	175	231.0	269.0	449.0	710.0	19.00	2000	3400	197.0	303.0	3.0	20.500
QJ 336 N2MA	180	380	75	4.0	196	252.0	309.0	637.0	1020.0	26.000	1800	3000	197.0	363.0	3.0	47.500
QJ 338 N2MA	190	400	78	5.0	207	263.0	326.0	702.0	1160.0	28.500	1700	2800	210.0	380.0	4.0	49.000
QJ 240 N2MA	200	360	58	4.0	196	258.0	302.0	540.0	915.0	23.200	1800	3000	217.0	363.0	3.0	28.500



Cuscinetti Orientabili a Rulli
Spherical Roller Bearings

Il cuscinetto orientabile a sfere è dotato di due corone di sfere ed un' unica pista sferica sull'anello esterno, questo cuscinetto è orientabile ed insensibile ai disallineamenti angolari dell'albero rispetto all'alloggiamento. Il cuscinetto orientabile a sfere tra tutti i cuscinetti volventi è quello a minor attrito il che gli consente di operare senza scaldarsi anche a velocità elevate. I cuscinetti orientabili a sfere sono disponibili sia con foro cilindrico che con foro conico.

Dimensioni

Le dimensioni d'ingombro dei cuscinetti orientabili a sfere sono conformi alla norma ISO 15:1998.

Tolleranze

I cuscinetti orientabili a sfere sono prodotti con tolleranze normali e conformi alla norma ISO 492:2002

Disallineamento

La forma costruttiva dei cuscinetti orientabili a sfere è tale da consentire disallineamenti angolari fra anello interno e anello esterno senza influire negativamente sulle prestazioni.

Gioco interno

Normalmente i cuscinetti orientabili a sfere presentano un gioco interno radiale normale ma molte versioni sono anche disponibili con gioco maggiorato C3 e C4 o con gioco minore C2.

Appellativi supplementari

I suffissi nell'appellativo utilizzati per identificare alcune caratteristiche dei cuscinetti orientabili a sfere sono:

- **C3** - Gioco interno radiale superiore a quello normale.
- **E** - Esecuzione interna ottimizzata
- **K** - Foro conico con conicità 1:12
- **M** - Gabbia massiccia in ottone centrata sulle sfere
- **TN** - Gabbia del tipo a scatto stampata ad iniezione in poliammide 6,6 centrata sulle sfere
- **TN9** - Gabbia del tipo a scatto stampata ad iniezione in poliammide 6,6 rinforzata con fibra di vetro e centrata sulle sfere.

The aligning ball bearing has two rows of balls and a 'unique spherical raceway on the outer ring, this bearing is adjustable and insensitive to angular misalignments of the' tree compared to 'housing. The self-aligning roller bearings rub against among all is the one with the lowest friction which enables it to operate without heat even at high speeds. The self-aligning ball bearings are available with cylindrical bore tapered bore you with.

Dimensions

The overall dimensions of the self-aligning ball bearings are in accordance with ISO 15:1998.

Tolerances

The self-aligning ball bearings are produced with normal tolerances and in accordance with ISO 492:2002

Misalignment

The design of the spherical beads is that to ensure angular misalignment between inner ring and outer ring without negatively affecting performance.

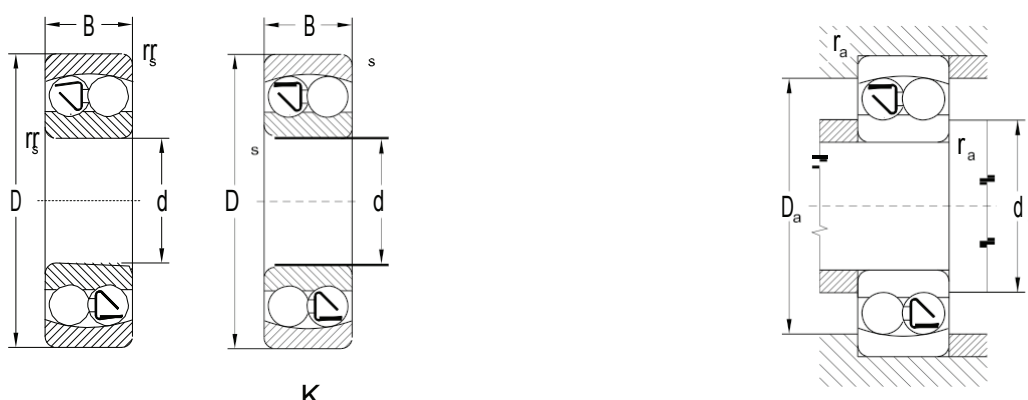
Internal clearance

Normally aligning ball bearings have a radial internal clearance normal but many versions are also available with increased clearance C3 and C4 or C2 minor clearance.

Supplementary designations

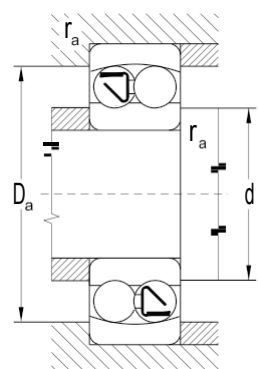
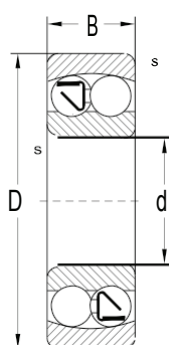
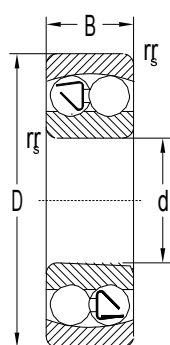
In the designation suffixes used to identify certain characteristics of the self-aligning ball bearings are:

- **C3** - Radial clearance greater than normal.
- **E** - Execution optimized internal
- **K** - Tapered bore taper 1:12
- **M** - brass cage centered on the balls
- **TN** - Cage-type shot injection molded polyamide 6.6 centered on the balls
- **TN9** - Cage-type shot injection molded polyamide 6.6 reinforced with glass fiber and centered on the balls.



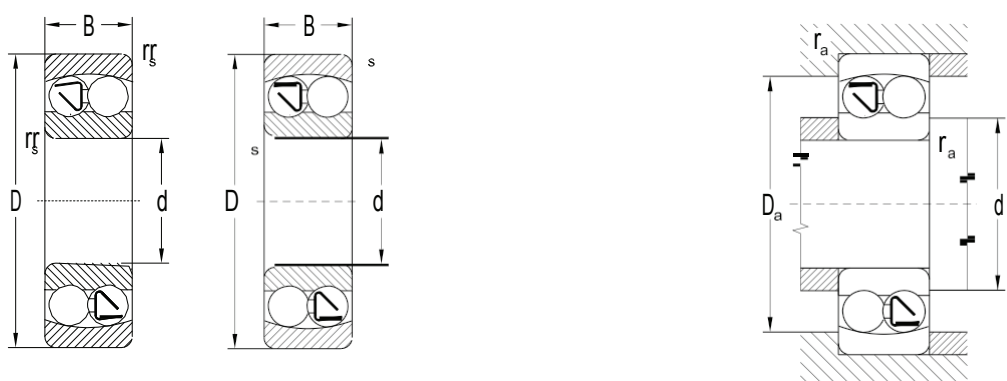
K

Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
135 TN9	5	19	6	0.3	2.51	0.48	0.025	63000	45000	7.4	16.6	0.3	0.009
126 TN9	6	19	6	0.3	2.51	0.48	0.025	70000	45000	8.4	16.6	0.3	0.009
127 TN9	7	22	7	0.3	2.65	0.56	0.029	63000	40000	9.4	19.6	0.3	0.014
108 TN9	8	22	7	0.3	2.65	0.56	0.029	60000	40000	10.4	19.6	0.3	0.014
129 TN9	9	26	8	0.3	3.90	0.82	0.043	60000	38000	11.4	23.6	0.3	0.022
1200 ETN9	10	30	9	0.6	5.53	1.18	0.061	56000	36000	14.2	25.8	0.6	0.034
2200 ETN9	10	30	14	0.6	8.06	1.73	0.090	50000	34000	14.2	25.8	0.6	0.047
1201 ETN9	12	32	10	0.6	6.24	1.43	0.072	50000	32000	16.2	27.8	0.6	0.040
2201 ETN9	12	32	14	0.6	8.52	1.90	0.098	45000	30000	16.2	27.8	0.6	0.053
1301 ETN9	12	37	12	1.0	9.36	2.16	0.120	40000	28000	17.6	31.4	1.0	0.067
2301	12	37	17	1.0	11.7	2.70	0.140	38000	28000	17.6	31.4	1.0	0.095
1209 ETN9	15	35	11	0.6	7.41	1.76	0.090	45000	28000	19.2	30.8	0.6	0.049
2209 ETN9	15	35	14	0.6	8.71	2.04	0.110	38000	26000	19.2	30.8	0.6	0.060
1302 ETN9	15	42	13	1.0	10.8	2.60	0.14	34000	24000	20.6	36.4	1.0	0.094
2302	15	42	17	1.0	11.9	2.90	0.150	32000	24000	20.6	36.4	1.0	0.120
1203 ETN9	17	40	12	0.6	8.84	2.20	0.120	38000	24000	21.2	35.5	0.6	0.073
2203 ETN9	17	40	16	0.6	10.6	2.55	0.140	34000	24000	21.2	35.8	0.6	0.088
1303 ETN9	17	47	14	1.0	12.7	3.40	0.180	28000	20000	22.6	41.6	1.0	0.120
2303	17	47	19	1.0	14.6	3.55	0.190	30000	22000	22.6	41.4	1.0	0.160
1204 ETN9	20	47	14	1.0	12.7	3.40	0.180	32000	20000	25.6	41.4	1.0	0.120
1204 EKTN9	20	47	14	1.0	12.7	3.40	0.180	32000	20000	25.6	41.4	1.0	0.120
2204 ETN9	20	47	18	1.0	16.8	4.15	0.220	28000	20000	25.6	41.4	1.0	0.140
1304 ETN9	20	52	15	1.1	14.3	4.00	0.210	26000	18000	27.0	45.0	1.0	0.160
2304 TN	20	52	21	1.1	18.2	4.75	0.240	26000	19000	27.0	45.0	1.0	0.220
1205 ETN9	25	52	15	1.0	14.3	4.00	0.210	28000	18000	30.6	46.4	1.0	0.140
1205 EKTN9	25	52	15	1.0	14.3	4.00	0.210	28000	18000	30.6	46.4	1.0	0.140
2205 ETN9	25	52	18	1.0	16.8	4.40	0.230	26000	18000	30.6	46.4	1.0	0.160
2205 EKTN9	25	52	18	1.0	16.8	4.40	0.230	26000	18000	30.6	46.4	1.0	0.160
1305 ETN9	25	62	17	1.1	19.0	5.40	0.280	22000	15000	32.0	55.0	1.0	0.260



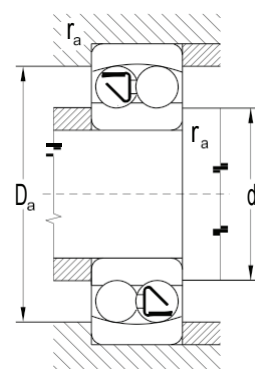
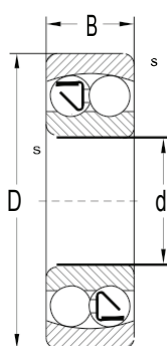
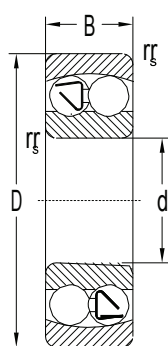
K

Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
1305 EKTN9	25	62	17	1.1	19.0	5.40	0.280	22000	15000	32.0	55.0	1.0	0.260
2305 ETN9	25	62	24	1.1	27.0	7.10	0.370	22000	16000	32.0	55.0	1.0	0.340
1206 ETN9	30	62	16	1.0	15.6	4.65	0.240	24000	15000	35.6	56.4	1.0	0.220
1206 EKTN9	30	62	16	1.0	15.6	4.65	0.240	24000	15000	35.6	56.4	1.0	0.220
2206 ETN9	30	62	20	1.0	23.8	6.7	0.350	22000	15000	35.6	56.4	1.0	0.260
2206 EKTN9	30	62	20	1.0	23.8	6.7	0.350	22000	15000	35.6	56.4	1.0	0.260
1306 ETN9	30	72	19	1.1	22.5	6.8	0.360	19000	13000	37.0	65.0	1.0	0.390
1306 EKTN9	30	72	19	1.1	22.5	6.8	0.360	19000	13000	37.0	65.0	1.0	0.390
2306	30	72	27	1.1	31.2	8.80	0.450	18000	13000	37.0	65.0	1.0	0.500
2306 K	30	72	27	1.1	31.2	8.80	0.450	18000	13000	37.0	65.0	1.0	0.500
1207 ETN9	35	72	17	1.1	19.0	6.00	0.310	20000	13000	42.0	65.0	1.0	0.320
1207 EKTN9	35	72	17	1.1	19.0	6.00	0.310	20000	13000	42.0	65.0	1.0	0.320
2207 ETN9	35	72	23	1.1	30.7	8.80	0.460	18000	12000	42.0	35.0	1.0	0.400
2207 EKTN9	35	72	23	1.1	30.7	8.80	0.460	18000	12000	42.0	35.0	1.0	0.400
1307 ETN9	35	80	21	1.5	26.5	8.50	0.430	16000	11000	44.0	71.0	1.5	0.510
1307 EKTN9	35	80	21	1.5	26.5	8.50	0.430	16000	11000	44.0	71.0	1.5	0.510
2307 ETN9	35	80	31	1.5	39.7	11.20	0.590	16000	12000	44.0	71.0	1.5	0.680
2307 EKTN9	35	80	31	1.5	39.7	11.20	0.590	16000	12000	44.0	71.0	1.5	0.680
1208 ETN9	40	80	18	1.1	19.9	6.95	0.360	18000	11000	47.0	73.0	1.0	0.420
1208 EKTN9	40	80	18	1.1	19.9	6.95	0.360	18000	11000	47.0	73.0	1.0	0.420
2208 ETN9	40	80	23	1.1	31.9	10.00	0.510	16000	11000	47.0	73.0	1.0	0.510
2208 EKTN9	40	80	23	1.1	31.9	10.00	0.510	16000	11000	47.0	73.0	1.0	0.510
1308 ETN9	40	90	23	1.5	33.8	11.20	0.570	14000	9500	49.0	81.0	1.5	0.680
1308 EKTN9	40	90	23	1.5	33.8	11.20	0.570	14000	9500	49.0	81.0	1.5	0.680
2308 ETN9	40	90	33	1.5	54.0	16.00	0.820	14000	10000	49.0	81.0	1.5	0.930
2308 EKTN9	40	90	33	1.5	54.0	16.00	0.820	14000	10000	49.0	81.0	1.5	0.930
1209 ETN9	45	85	19	1.1	22.9	7.80	0.400	17000	11000	52.0	78.0	1.0	0.470
1209 EKTN9	45	85	19	1.1	22.9	7.80	0.400	17000	11000	52.0	78.0	1.0	0.470
2209 ETN9	45	85	23	1.1	32.5	10.6	0.540	15000	10000	52.0	78.0	1.0	0.550



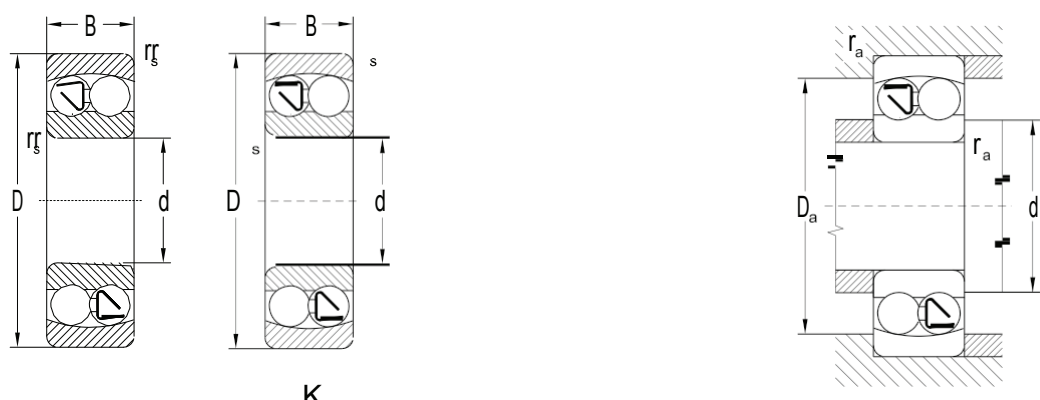
K

Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
2209 EKTN9	45	85	23	1.1	32.5	10.60	0.540	15000	10000	52.0	78.0	1.0	0.550
1309 ETN9	45	100	25	1.5	39.0	13.40	0.700	12000	8500	54.0	91.0	1.5	0.960
1309 EKTN9	45	100	25	1.5	39.0	13.40	0.700	12000	8500	54.0	91.0	1.5	0.960
2309 ETN9	45	100	36	1.5	63.7	19.30	1.000	13000	9000	54.0	91.0	1.5	1.250
2309 EKTN9	45	100	36	1.5	63.7	19.30	1.000	13000	9000	54.0	91.0	1.5	1.250
1210 ETN9	50	90	20	1.1	26.5	9.15	0.480	16000	10000	57.0	83.0	1.0	0.530
1210 EKTN9	50	90	20	1.1	26.5	9.15	0.480	16000	10000	57.0	83.0	1.0	0.530
2210 ETN9	50	90	23	1.1	33.8	11.20	0.570	14000	9500	57.0	83.0	1.0	0.600
2210 EKTN9	50	90	23	1.1	33.8	11.20	0.570	14000	9500	57.0	83.0	1.0	0.600
1310 ETN9	50	110	27	2.0	43.6	14.00	0.720	12000	8000	61.0	99.0	2.0	1.200
1310 EKTN9	50	110	27	2.0	43.6	14.00	0.720	12000	8000	61.0	99.0	2.0	1.200
2310	50	110	40	2.0	63.7	20.00	1.040	14000	9500	61.0	99.0	2.0	1.650
2310 K	50	110	40	2.0	63.7	20.00	1.040	14000	9500	61.0	99.0	2.0	1.650
1211 ETN9	55	100	21	1.5	27.6	10.60	0.540	14000	9000	64.0	91.0	1.5	0.710
1211 EKTN9	55	100	21	1.5	27.6	10.60	0.540	14000	9000	64.0	91.0	1.5	0.710
2211 ETN9	55	100	25	1.5	39.0	13.40	0.700	12000	8500	64.0	91.0	1.5	0.810
2211 EKTN9	55	100	25	1.5	39.0	13.40	0.700	12000	8500	64.0	91.0	1.5	0.810
1311 ETN9	55	120	29	2.0	50.7	18.00	0.920	11000	7500	66.0	109.0	2.0	1.600
1311 EKTN9	55	120	29	2.0	50.7	18.00	0.920	11000	7500	66.0	109.0	2.0	1.600
2311	55	120	43	2.0	76.1	24.00	1.250	11000	7500	66.0	109.0	2.0	2.100
2311 K	55	120	43	2.0	76.1	24.00	1.250	11000	7500	66.0	109.0	2.0	2.100
1212 ETN9	60	110	22	1.5	31.2	12.20	0.620	12000	8500	69.0	101.0	1.5	0.900
1212 EKTN9	60	110	22	1.5	31.2	12.20	0.620	12000	8500	69.0	101.0	1.5	0.900
2212 ETN9	60	110	28	1.5	48.8	17.00	0.880	11000	8000	69.0	101.0	1.5	1.100
2212 EKTN9	60	110	28	1.5	48.8	17.00	0.880	11000	8000	69.0	101.0	1.5	1.100
1312 ETN9	60	130	31	2.1	58.5	22.00	1.120	9000	6300	72.0	118.0	2.0	1.950
1312 EKTN9	60	130	31	2.1	58.5	22.00	1.120	9000	6300	72.0	118.0	2.0	1.950
2312	60	130	46	2.1	87.1	28.50	1.460	9500	7000	72.0	118.0	2.0	2.600
2312 K	60	130	46	2.1	87.1	28.50	1.460	9500	7000	72.0	118.0	2.0	2.600

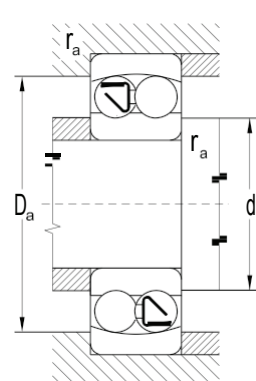
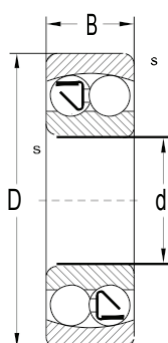
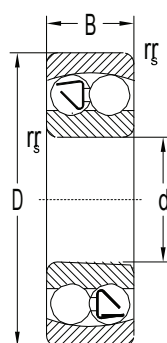


K

Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
1213 ETN9	65	120	23	1.5	35.1	14.00	0.720	11000	7000	74.0	111.0	1.5	1.150
1213 EKTN9	65	120	23	1.5	35.1	14.00	0.720	11000	7000	74.0	111.0	1.5	1.150
2213 ETN9	65	120	31	1.5	57.2	20.00	1.020	10000	7000	74.0	111.0	1.5	1.450
213 EKTN9	65	120	31	1.5	57.2	20.00	1.020	10000	7000	74.0	111.0	1.5	1.450
1313 ETN9	65	140	33	2.1	66.0	25.50	1.250	8500	6000	77.0	128.0	2.0	2.450
1313 EKTN9	65	140	33	2.1	66.0	25.50	1.250	8500	6000	77.0	128.0	2.0	2.450
2313	65	140	48	2.1	95.6	32.50	1.660	9000	6300	77.0	128.0	2.0	3.250
2313 K	65	140	48	2.1	95.6	32.50	1.660	9000	6300	77.0	128.0	2.0	3.250
1214 ETN9	70	125	24	1.5	35.8	14.60	0.750	11000	7000	79.0	116.0	1.5	1.250
2214	70	125	31	1.5	44.2	17.00	0.880	10000	6700	79.0	116.0	1.5	1.500
1314	70	150	35	2.1	74.1	27.50	1.340	8500	6000	82.0	138.0	2.0	3.000
2314	70	150	51	2.1	111.0	37.50	1.860	8000	6000	82.0	138.0	2.0	3.900
1215	75	130	25	1.5	39.0	15.60	0.800	10000	6700	84.0	121.0	1.5	1.350
1215 K	75	130	25	1.5	39.0	15.60	0.800	10000	6700	84.0	121.0	1.5	1.350
2215 ETN9	75	130	31	1.5	58.5	22.00	1.120	9000	6300	84.0	121.0	1.5	1.600
2215 EKTN9	75	130	31	1.5	58.5	22.00	1.120	9000	6300	84.0	121.0	1.5	1.600
1315	75	160	37	2.1	79.3	30.00	1.430	8000	5600	87.0	148.0	2.0	3.550
1315 K	75	160	37	2.1	79.3	30.00	1.430	8000	5600	87.0	148.0	2.0	3.550
2315	75	160	55	2.1	124.0	43.00	2.040	7500	5600	87.0	148.0	2.0	4.700
2315 K	75	160	55	2.1	124.0	43.00	2.040	7500	5600	87.0	148.0	2.0	4.700
1216	80	140	26	2.0	39.7	17.00	0.830	9500	6000	91.0	129.0	2.0	1.650
1216 K	80	140	26	2.0	39.7	17.00	0.830	9500	6000	91.0	129.0	2.0	1.650
2216 ETN9	80	140	33	2.0	65.0	25.50	1.250	8500	6000	91.0	129.0	2.0	2.000
2216 EKTN9	80	140	33	2.0	65.0	25.50	1.250	8500	6000	91.0	129.0	2.0	2.000
1316	80	170	39	2.1	88.4	33.50	1.500	7500	5300	92.0	158.0	2.0	4.200
1316 K	80	170	39	2.1	88.4	33.50	1.500	7500	5300	92.0	158.0	2.0	4.200
2316	80	170	58	2.1	135.0	49.00	2.240	7000	5300	92.0	158.0	2.0	6.100
2316 K	80	170	58	2.1	135.0	49.00	2.240	7000	5300	92.0	158.0	2.0	6.100
1217	85	150	28	2.0	48.8	20.80	0.980	9000	5600	96.0	139.0	2.0	2.050

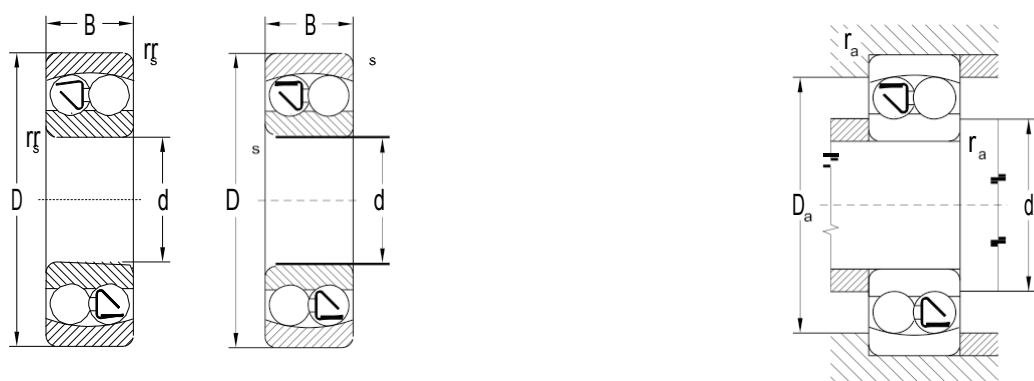


Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
1217 K	85	150	28	2.0	48.8	20.80	0.980	9000	5600	96.0	139.0	2.0	2.050
2217	85	150	36	2.0	58.5	23.60	1.120	8000	5600	96.0	139.0	2.0	2.500
2217 K	85	150	36	2.0	58.5	23.60	1.120	8000	5600	96.0	139.0	2.0	2.500
1317	85	180	41	3.0	97.5	38.00	1.700	7000	4800	99.0	166.0	2.5	5.000
1317 K	85	180	41	3.0	97.5	38.00	1.700	7000	4800	99.0	166.0	2.5	5.000
2317	85	180	60	3.0	140.0	51.0	2.280	6700	4800	99.0	166.0	2.5	7.050
2317 K	85	180	60	3.0	140.0	51.0	2.280	6700	4800	99.0	166.0	2.5	7.050
1218	90	160	30	2.0	57.2	23.60	1.080	8500	5300	101.0	149.0	2.0	2.500
1218 K	90	160	30	2.0	57.2	23.60	1.080	8500	5300	101.0	149.0	2.0	2.500
2218	90	160	40	2.0	70.2	28.50	1.320	7500	5300	101.0	149.0	2.0	3.400
2218 K	90	160	40	2.0	70.2	28.50	1.320	7500	5300	101.0	149.0	2.0	3.400
1318	90	190	43	3.0	117.0	44.00	1.930	6700	4500	104.0	176.0	2.5	5.800
1318 K	90	190	43	3.0	117.0	44.00	1.930	6700	4500	104.0	176.0	2.5	5.800
2318 M	90	190	64	3.0	153.0	57.00	2.500	6300	4500	104.0	176.0	2.5	8.450
2318 KM	90	190	64	3.0	153.0	57.00	2.500	6300	4500	104.0	176.0	2.5	8.450
1219	95	170	32	2.1	63.7	27.00	1.200	8000	5000	107.0	158.0	2.0	3.100
1219 K	95	170	32	2.1	63.7	27.00	1.200	8000	5000	107.0	158.0	2.0	3.100
2219 M	95	170	43	2.1	83.2	34.50	1.530	7000	5000	107.0	158.0	2.0	4.100
2219 KM	95	170	43	2.1	83.2	34.50	1.530	7000	5000	107.0	158.0	2.0	4.100
1319	95	200	45	3.0	133.0	51.00	2.160	6300	4300	109.0	186.0	2.5	6.700
1319 K	95	200	45	3.0	133.0	51.00	2.160	6300	4300	109.0	186.0	2.5	6.700
2319 M	95	200	67	3.0	165.0	64.00	2.750	6000	4500	109.0	186.0	2.5	9.800
1220	100	180	34	2.1	68.9	30.00	1.290	7500	4800	112.0	168.0	2.0	3.700
1220 K	100	180	34	2.1	68.9	30.00	1.290	7500	4800	112.0	168.0	2.0	3.700
2220 M	100	180	46	2.1	97.5	40.50	1.760	6700	4800	112.0	168.0	2.0	5.000
2220 KM	100	180	46	2.1	97.5	40.50	1.760	6700	4800	112.0	168.0	2.0	5.000
1320	100	215	47	3.0	143.0	57.00	2.360	6000	4000	114.0	201.0	2.5	8.300
1320 K	100	215	47	3.0	143.0	57.00	2.360	6000	4000	114.0	201.0	2.5	8.300
2320 M	100	215	73	3.0	190.0	80.00	3.250	5600	4000	114.0	201.0	2.5	12.500



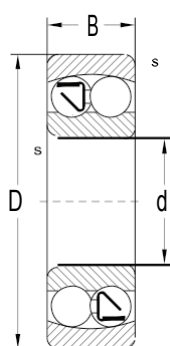
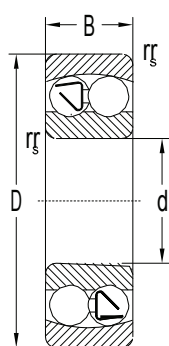
K

Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	Kg
2320 KM	100	215	73	3.0	190.0	80.00	3.250	5600	4000	114.0	201.0	2.5	12.500
1222	110	200	38	2.1	88.4	39.00	1.600	6700	4300	122.0	188.0	2.0	5.150
1222 K	110	200	38	2.1	88.4	39.00	1.600	6700	4300	122.0	188.0	2.0	5.150
2222 M	110	200	53	2.1	124.0	52.00	2.120	6000	4300	122.0	188.0	2.0	7.100
2222 KM	110	200	53	2.1	124.0	52.00	2.120	6000	4300	122.0	188.0	2.0	7.100
1322 M	110	240	50	3.0	163.0	72.00	2.750	5300	3600	124.0	226.0	2.5	12.000
1322 KM	110	240	50	3.0	163.0	72.00	2.750	5300	3600	124.0	226.0	2.5	12.000
1224 M	120	215	42	2.1	119.0	53.00	2.120	6300	4000	132.0	203.0	2.0	6.750
1224 KM	120	215	42	2.1	119.0	53.00	2.120	6300	4000	132.0	203.0	2.0	6.750
1226 M	130	230	46	3.0	127.0	58.50	2.240	5600	3600	144.0	216.0	2.5	8.300
13030	150	225	56	2.1	57.2	23.60	0.880	5600	3400	161.0	214.0	2.0	7.500
13036	180	280	74	2.1	95.6	40.00	1.340	4500	2800	191.0	269.0	2.0	16.000
13940	200	280	60	2.1	60.5	29.00	0.970	4300	2600	211.0	269.0	2.0	10.700
13944	220	300	60	2.1	60.5	30.50	0.970	3800	2400	231.0	289.0	2.0	11.000
13948	240	320	60	2.1	60.5	32.00	0.980	3800	2200	251.0	309.0	2.0	11.300

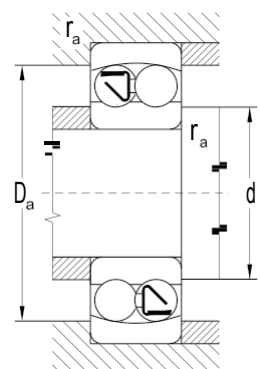


K

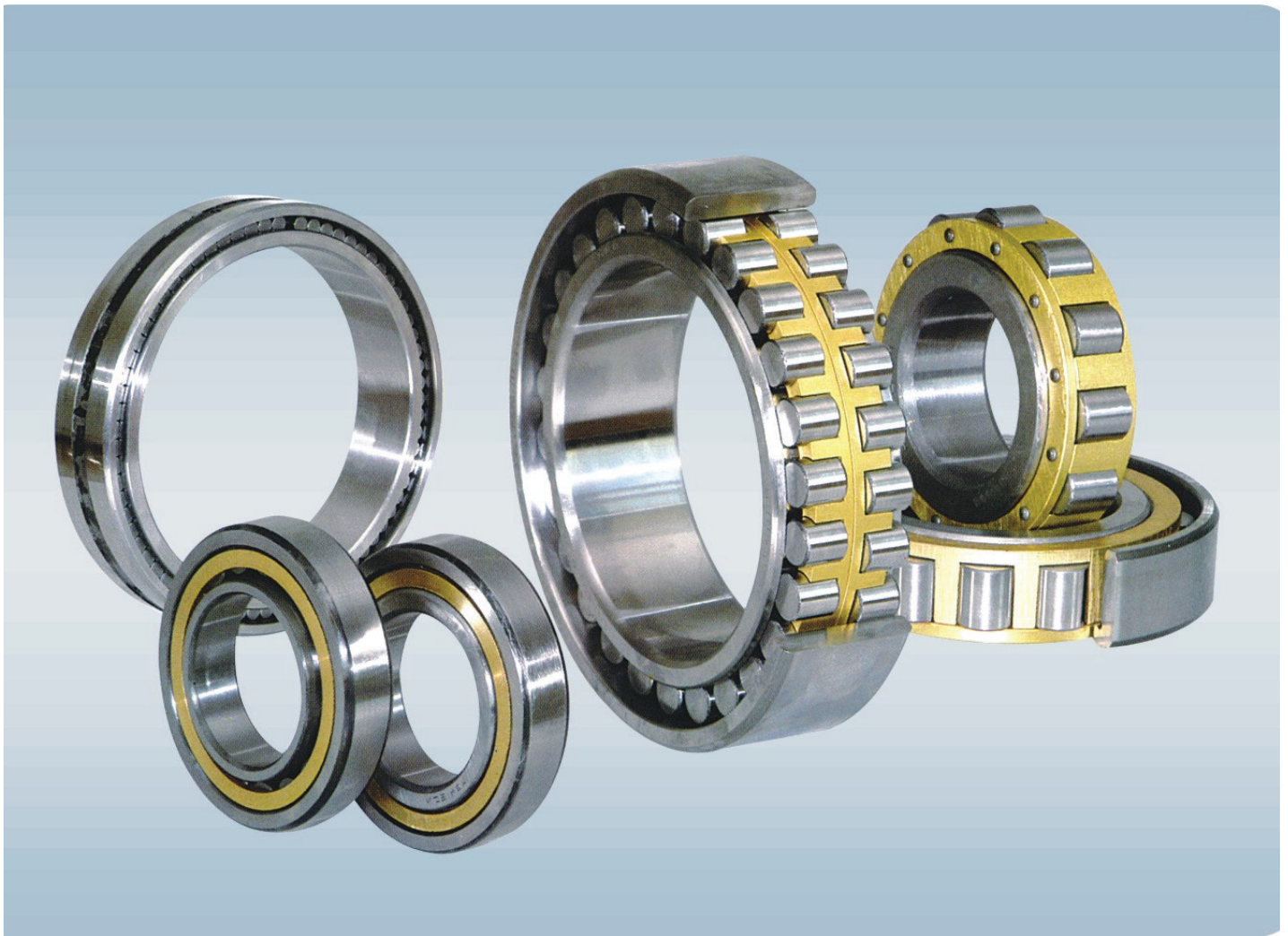
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r min	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
2200 E-2RS1TN9	10	30	14	0.6	5.53	1.18	0.06	17000	-	14.0	25.8	0.6	0.048
2201 E-2RS1TN9	12	32	14	0.6	6.24	1.43	0.08	16000	-	15.5	27.8	0.6	0.053
2202 E-2RS1TN9	15	35	14	0.6	7.41	1.76	0.09	14000	-	19.0	30.8	0.6	0.058
2302 E-2RS1TN9	15	42	17	1.0	10.8	2.6	0.14	12000	-	20.0	36.4	1.0	0.110
2203 E-2RS1TN9	17	40	16	0.6	8.84	2.2	0.12	12000	-	21.0	35.8	0.6	0.089
2303 E-2RS1TN9	17	47	19	1.0	12.7	3.4	0.18	11000	-	22.0	41.4	1.0	0.160
2204 E-2RS1TN9	20	47	18	1.0	12.7	3.4	0.18	10000	-	25.0	41.4	1.0	0.140
2304 E-2RS1TN9	20	52	21	1.1	14.3	4.0	0.21	9000	-	26.5	45.0	1.0	0.210
2205 E-2RS1TN9	25	52	18	1.0	14.3	4.0	0.21	9000	-	30.6	46.4	1.0	0.160
2205 E-2RS1KTN9	25	52	18	1.0	14.3	4.0	0.21	9000	-	30.6	46.4	1.0	0.160
2305 E-2RS1TN9	25	62	24	1.1	19.0	5.4	0.28	7500	-	32.0	55.0	1.0	0.340
2206 E-2RS1TN9	30	62	20	1.0	15.6	4.65	0.24	7500	-	35.6	56.4	1.0	0.260
2206 E-2RS1KTN9	30	62	20	1.0	15.6	4.65	0.24	7500	-	35.6	56.4	1.0	0.260
2306 E-2RS1TN9	30	72	27	1.1	22.5	6.8	0.36	6700	-	37.0	65.0	1.0	0.510
2207 E-2RS1TN9	35	72	23	1.1	19.0	6.0	0.31	6300	-	42.0	65.0	1.0	0.410
2207 E-2RS1TN9	35	72	23	1.1	19.0	6.0	0.31	6300	-	42.0	65.0	1.0	0.410
2307 E-2RS1TN9	35	80	31	1.5	26.5	8.5	0.43	5600	-	43.5	71.0	1.5	0.700
2208 E-2RS1TN9	40	80	23	1.1	19.9	6.95	0.36	5600	-	47.0	73.0	1.0	0.500
2208 E-2RS1KTN9	40	80	23	1.1	19.9	6.95	0.36	5600	-	47.0	73.0	1.0	0.500
2308 E-2RS1TN9	40	90	33	1.5	33.8	11.2	0.57	5000	-	49.0	81.0	1.5	0.960
2209 E-2RS1TN9	45	85	23	1.1	22.9	7.8	0.40	5300	-	52.0	78.0	1.0	0.530
2209 E-2RS1KTN9	45	85	23	1.1	22.9	7.8	0.40	5300	-	52.0	78.0	1.0	0.530
2309 E-2RS1TN9	45	100	36	1.5	39.0	13.4	0.70	4500	-	54.0	91.0	1.5	1.300
2210 E-2RS1TN9	50	90	23	1.1	22.9	8.15	0.42	4800	-	57.0	83.0	1.0	0.570
2210 E-2RS1TN9	50	90	23	1.1	22.9	8.15	0.42	4800	-	57.0	83.0	1.0	0.570
2310 E-2RS1TN9	50	110	40	2.0	43.6	14.0	0.72	4000	-	61.0	99.0	2.0	1.650



K



Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
2211 E-2RS1TN9	55	100	25	1.5	27.6	10.6	0.54	4300	-	64.0	91.0	1.5	0.790
2211 E-2RS1KTN9	55	100	25	1.5	27.6	10.6	0.54	4300	-	64.0	91.0	1.5	0.790
2212 E-2RS1TN9	60	110	28	1.5	31.2	12.2	0.62	3800	-	69.0	101.0	1.5	1.050
2212 E-2RS1KTN9	60	110	28	1.5	31.2	12.2	0.62	3800	-	69.0	101.0	1.5	1.050
2213 E-2RS1TN9	65	120	31	1.5	35.1	14.0	0.72	3600	-	74.0	111.0	1.5	1.400
2213 E-2RS1KTN9	65	120	31	1.5	35.1	14.0	0.72	3600	-	74.0	111.0	1.5	1.400
2214 E-2RS1TN9	70	125	31	1.5	35.8	14.6	0.75	3400	-	79.0	116.0	1.5	1.450



Cuscinetti a Rulli Cilindrici
Cylindrical Roller Bearings

K.S.B. produce i cuscinetti a rulli cilindrici in diverse esecuzioni, serie e dimensioni. La maggior parte dei cuscinetti è ad una corona con gabbia, viene poi prodotta la versione a una o due corone a pieno riempimento (senza gabbia). Questi cuscinetti sono in grado di sopportare forti carichi radiali e nello stesso tempo di funzionare a velocità elevate, mentre i cuscinetti a pieno riempimento sono adatti per carichi radiali molto forti a velocità moderate.

Esecuzione standard

Nel cuscinetto a una corona di rulli cilindrici i rulli sono sempre guidati fra gli orletti aperti integrali presenti su uno degli anelli. Tali orletti combinati con le estremità del rullo appositamente progettate e sottoposte a finitura superficiale particolare consentono una migliore lubrificazione, un attrito ridotto e quindi temperature di esercizio inferiori. L'anello munito di orletti insieme al gruppo rulli-gabbia può essere separato dall'altro anello, il che facilita il montaggio e lo smontaggio, soprattutto quando le condizioni di carico esigono che gli anelli siano montati con interferenza.

Esecuzione NU

L'anello esterno di un cuscinetto NU presenta due orletti integrali mentre quello interno ne è privo. Lo spostamento assiale dell'albero rispetto all'alloggiamento può avvenire nei due sensi all'interno del cuscinetto stesso.

Esecuzione N

L'anello interno di un cuscinetto N presenta due orletti integrali e quello esterno è privo di orletti. Lo spostamento assiale dell'albero rispetto all'alloggiamento può avvenire nei due sensi all'interno del cuscinetto stesso.

Esecuzione NJ

L'anello esterno di un cuscinetto NJ presenta due orletti integrali mentre quello interno è dotato di un solo orletto. Questi cuscinetti possono quindi vincolare assialmente l'albero in un senso.

Esecuzione NUP

L'anello esterno di un cuscinetto NUP presenta due orletti integrali e l'anello interno un orletto integrale ed uno non integrale riportato. Questi cuscinetti sono ideali per l'utilizzo come cuscinetti fissi e possono vincolare assialmente l'albero nei due sensi.

K.S.B. produces cylindrical roller bearings in different versions, series and sizes. Most of the bearings is a crown with cage, is then produced the version in one or two crowns full complement (no cage). These bearings are able to withstand high radial loads and at the same time to operate at speeds elevated, while the full complement bearings are suitable for very heavy radial loads at moderate speeds.

Standard version

In bearing a single row cylindrical roller rollers are always guided between the integral flanges open present on one of the rings. These flanges combined with the ends of the roller specially designed and subjected to surface finishing particular allow a better lubrication, a reduced friction and therefore lower operating temperatures. The ring fitted with flanges together with the group - roller cage can be separated from the other ring, which facilitates the assembly and disassembly, especially when the load conditions require that the rings are assembled with interference.

NU version

The outer ring of a bearing NU has two integral flanges and the inner without. The axial displacement of the shaft relative to the housing can take place in both directions within the bearing itself.

N version

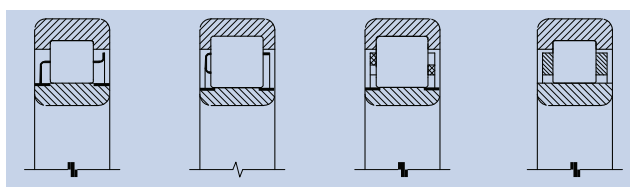
The inner ring of a bearing N has two integral flanges and the outer one is devoid of flanges. The axial displacement of the shaft relative to the housing can take place in both directions within the bearing itself.

NJ version

The outer ring of a bearing NJ has two integral flanges while the inner one is equipped with only one rib. These bearings can then bind axially the shaft in one direction.

NUP version

The outer ring of a bearing NUP has two integral flanges and the inner ring of an integral flange and one non-integral reported. These bearings are suitable for use as fixed bearings and can constrain the shaft axially in both directions.



I cuscinetti a rulli cilindrici vengono prodotti di serie con foro cilindrico, tuttavia si possono fornire alcuni tipi con foro conico 1:12. I cuscinetti con foro conico presentano un gioco radiale interno più grande rispetto a quello dei tipi corrispondenti con foro cilindrico e sono identificati dal suffisso K nell'appellativo.

Dimensioni

Le dimensioni dei cuscinetti a rulli cilindrici sono conformi alla norma ISO 15-1998

Tolleranze

I cuscinetti a rulli cilindrici sono di regola prodotti con tolleranze normali per quanto riguarda la precisione dimensionale e con tolleranze P6 per quanto riguarda la precisione di rotazione e sono conformi alla norma ISO 492:2002.

The cylindrical roller bearings are produced as standard with cylindrical bore, however some types can be supplied with tapered bore 1:12. For bearings with tapered bore have a radial internal clearance larger than that of the corresponding types with cylindrical bore and are identified by the suffix K in the designation.

Dimensions

The dimensions of the cylindrical roller bearings are in accordance with ISO 15-1998

Tolerances

The cylindrical roller bearings are generally products with normal tolerances as regards the dimensional accuracy and P6 tolerances with regard to the accuracy of rotation and are in accordance with ISO 492:2002

Appellativi supplementari

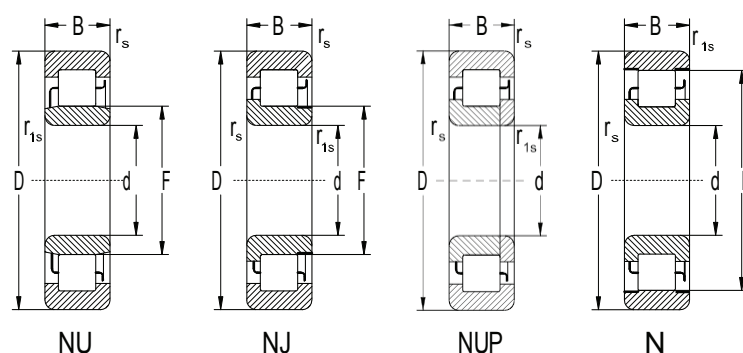
I suffissi nell'appellativo utilizzati per identificare alcune caratteristiche dei cuscinetti a rulli cilindrici sono i seguenti:

- **CN** - Gioco interno radiale normale generalmente utilizzato solo in combinazione con delle lettere che indicano una gamma di gioco ridotta o spostata.
- **CNH** - Gamma di gioco ridotta corrispondente alla metà superiore della gamma di gioco effettiva.
- **CNL** - Gamma di gioco ridotta corrispondente alla metà inferiore della gamma di gioco effettiva.
- **C2** - Gioco interno radiale inferiore al normale
- **C3** - Gioco interno radiale maggiore al normale
- **C4** - Gioco interno radiale maggiore del C3
- **C5** - Gioco interno radiale maggiore del C4
- **EC** - Esecuzione interna ottimizzata che prevede rulli più numerosi e/o più grandi e contatto modificato tra testata dei rulli e orletti
- **J** - Gabbia stampata in lamiera d'acciaio non temprata e centrata sui rulli
- **K** - Foro conico 1:12
- **M** - Gabbia massiccia in ottone in due parti centrata sui rulli
- **MA** - Gabbia massiccia in ottone in due parti centrata sull'anello esterno
- **MB** - Gabbia massiccia in ottone in due parti centrata sull'anello interno
- **ML** - Gabbia monoblocco in ottone del tipo a feritoie centrata sull'anello interno o esterno
- **MP** - Gabbia monoblocco in ottone del tipo a feritoie con alveoli punzonati o fresati centrata sull'anello interno o esterno.
- **MR** - Gabbia monoblocco in ottone del tipo a feritoie centrata sui rulli.
- **P** - Gabbia stampata a iniezione in poliammide 6,6 rinforzata con fibre di vetro centrata sui rulli
- **PH** - Gabbia stampata a iniezione di polietereeterchetone rinforzata con fibre di vetro.
- **CV** - Esecuzione interna modificata, gruppo rulli a pieno riempimento
- **V** - Gruppo rulli a pieno riempimento (senza gabbia)
- **VH** - Gruppo rulli completo a pieno riempimento (senza gabbia) con autosostentamento del gruppo rulli
- **ADA** - Scanalature modificate per l'anello di ancoraggio sull'anello esterno, anello interno in due parti tenute insieme da un anello ritenuta.
- **2LS** - Guarnizione a strisciamento in poliuretano su entrambi i lati del cuscinetto.

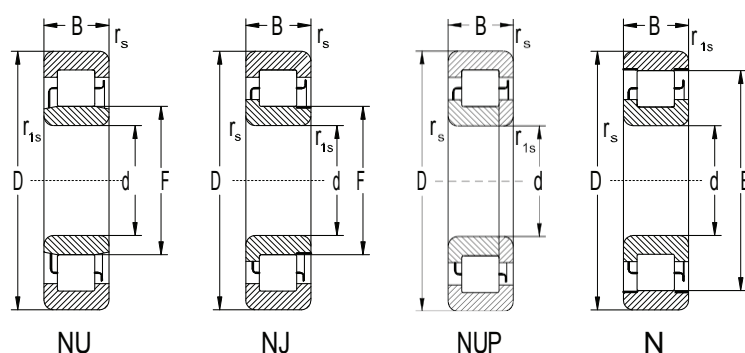
Supplementary designations

Eg in the designation suffixes used to identify certain characteristics of cylindrical roller bearings are as follows:

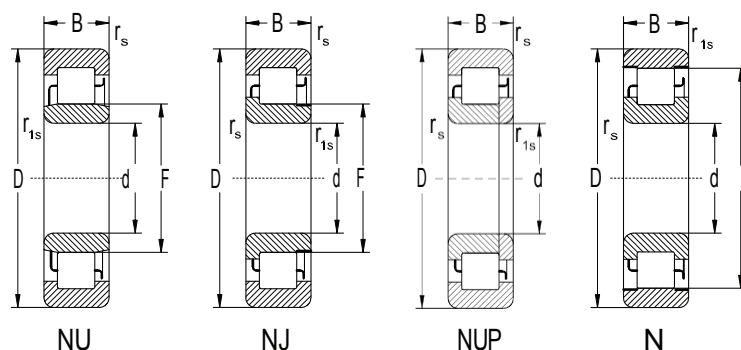
- **CN** - normal radial internal clearance generally used only in combination with the letters that indicate a range of game reduced or moved.
- **CNH** - Range of clearance reduced corresponding to the upper half of the range of the actual clearance.
- **CNL** - Range of game reduced corresponding to the lower half of the range of the actual clearance.
- **C2** - Radial clearance less than normal
- **C3** - Radial clearance greater than normal
- **C4** - Radial clearance greater than C3
- **C5** - Radial clearance greater than C4
- **EC** - Running optimized internal rollers that provides more and / or larger tested and modified contact between the rollers and flanges
- **J** - molded cage of sheet steel not hardened and roller centered
- **K** - Tapered bore 1:12
- **M** - brass cage centered on the rollers into two parts
- **MA** - brass cage into two parts centered on the outer
- **MB** - brass cage into two parts inner ring
- **ML** - solid brass cage-type slits centered on the inner or outer
- **MP** - solid brass cage-type cells with slits punched or milled inner or outer ring centered.
- **MR** - solid brass cage-type roller centered slots.
- **P** - Cage injection-molded polyamide 6.6 reinforced with glass fibers roller centered
- **PH** - Cage injection molded of polyetheretherketone reinforced with glass fibers.
- **CV** - Running modified internal, full complement cylindrical roller set
- **V** - Group full complement cylindrical roller bearings (without cage)
- **VH** - complete full complement cylindrical roller set (without cage) with self-supporting roller set
- **ADA** - Grooves modified for anchor ring on the outer ring, inner ring in two parts held together by a ring restraint.
- **2LS** - Gasket sliding polyurethane on both sides of the bearing.



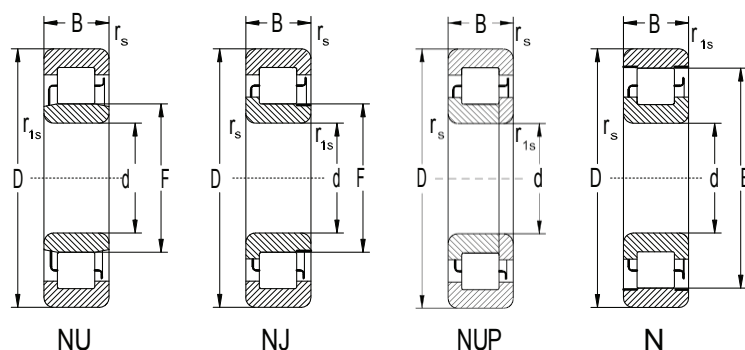
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 202 ECP	15	35	11	0.6	19.3	12.5	10.2	1.22	22000	26000	17.4	30.8	0.6	0.047
NJ 202 ECP	15	35	11	0.6	19.3	12.5	10.2	1.22	22000	26000	18.5	30.8	0.6	0.048
NU 203 ECP	17	40	12	0.6	22.1	17.2	14.3	1.73	19000	22000	19.4	35.8	0.6	0.068
NU 203 ECML	17	40	12	0.6	22.1	17.2	14.3	1.73	12350	14300	19.4	35.8	0.6	0.068
NJ 203 ECP	17	40	12	0.6	22.1	17.2	14.3	1.73	19000	22000	21.0	35.8	0.6	0.070
NJ 203 ECML	17	40	12	0.6	22.1	17.2	14.3	1.73	12350	14300	21.0	35.5	0.6	0.070
NUP 203 ECP	17	40	12	0.6	22.1	17.2	14.3	1.73	19000	22000	21.2	35.8	0.6	0.073
NUP 203 ECML	17	40	12	0.6	22.1	17.2	14.3	1.73	12350	14300	21.2	35.8	0.6	0.073
N 203 ECP	17	40	12	0.6	35.1	17.2	14.3	1.73	19000	22000	21.2	37.6	0.6	0.066
NU 2203 ECP	17	40	16	0.6	22.1	23.8	21.6	2.65	19000	22000	19.4	35.8	0.6	0.087
NJ 2203 ECP	17	40	16	0.6	22.1	23.8	21.6	2.65	19000	22000	21.0	35.8	0.6	0.093
NUP 2203 ECP	17	40	16	0.6	22.1	23.8	21.6	2.65	19000	22000	21.2	35.8	0.6	0.097
NU 303 ECP	17	47	14	1.0	24.2	24.6	20.4	2.55	15000	20000	21.2	41.4	1.0	0.120
NJ 303 ECP	17	47	14	1.0	24.2	24.6	20.4	2.55	15000	20000	22.6	41.4	1.0	0.120
N 303 ECP	17	47	14	1.0	40.2	24.6	20.4	2.55	15000	20000	22.6	42.8	1.0	0.120
NU 204 ECP	20	47	14	1.0	26.5	25.1	22.0	2.75	16000	19000	24.2	41.4	1.0	0.110
NU 204 ECML	20	47	14	1.0	26.5	25.1	22.0	2.75	10400	12350	24.2	41.4	1.0	0.110
NJ 204 ECP	20	47	14	1.0	26.5	25.1	22.0	2.75	16000	19000	25.0	41.4	1.0	0.110
NJ 204 ECML	20	47	14	1.0	26.5	25.1	22.0	2.75	10400	12350	25.0	41.4	1.0	0.110
NUP 204 ECP	20	47	14	1.0	26.5	25.1	22.0	2.75	16000	19000	25.6	41.4	1.0	0.120
NUP 204 ECML	20	47	14	1.0	26.5	25.1	22.0	2.75	10400	12350	25.6	41.4	1.0	0.120
N 204 ECP	20	47	14	1.0	41.5	25.1	22.0	2.75	16000	19000	25.6	42.8	1.0	0.110
NU 2204 ECP	20	47	18	1.0	26.5	29.7	27.5	3.45	16000	19000	24.2	41.4	1.0	0.140
NJ 2204 ECP	20	47	18	1.0	26.5	29.7	27.5	3.45	16000	19000	25.0	41.4	1.0	0.140
NU 304 ECP	20	52	15	1.1	27.5	35.5	26.0	3.25	15000	18000	24.2	45.0	1.0	0.150
NJ 304 ECP	20	52	15	1.1	27.5	35.5	26.0	3.25	15000	18000	27.0	45.0	1.0	0.150
NUP 304 ECP	20	52	15	1.1	27.5	35.5	26.0	3.25	15000	18000	27.0	45.0	1.0	0.160
N 304 ECP	20	52	15	1.1	45.5	35.5	26.0	3.25	15000	18000	27.0	47.8	1.0	0.150
NU 2304 ECP	20	52	21	1.1	27.5	47.5	38.0	4.80	14000	18000	24.2	45.0	1.0	0.210



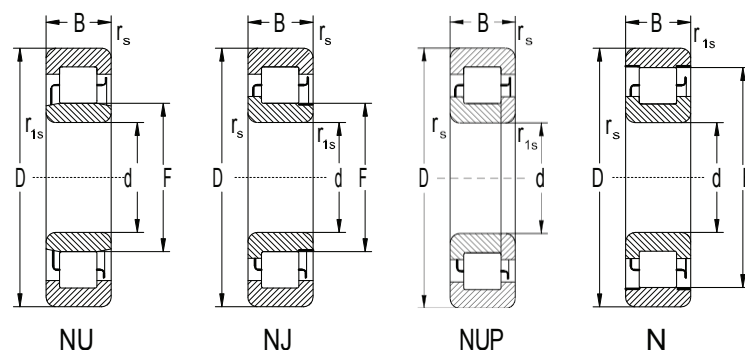
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 2304 ECP	20	52	21	1.1	27.5	47.5	38.0	4.80	14000	18000	26.0	45.0	1.0	0.220
NUP 2304 ECP	20	52	21	1.1	27.5	47.5	38.0	4.80	14000	18000	27.0	45.0	1.0	0.230
NU 1005	25	47	12	0.6	30.5	14.2	13.2	1.40	18000	18000	27.0	43.8	0.6	0.083
NU 205 ECP	25	52	15	1.0	31.5	28.6	27.0	3.35	14000	16000	29.2	46.4	1.0	0.130
NU 205 ECJ	25	52	15	1.0	31.5	28.6	27.0	3.35	14000	16000	29.2	46.4	1.0	0.130
NU 205 ECML	25	52	15	1.0	31.5	28.6	27.0	3.35	9100	10400	29.2	46.4	1.0	0.130
NJ 205 ECP	25	52	15	1.0	31.5	28.6	27.0	3.35	14000	16000	30.0	46.4	1.0	0.140
NJ 205 ECJ	25	52	15	1.0	31.5	28.6	27.0	3.35	14000	16000	30.0	46.4	1.0	0.140
NJ 205 ECML	25	52	15	1.0	31.5	28.6	27.0	3.35	9100	10400	30.0	46.4	1.0	0.140
NUP 205 ECP	25	52	15	1.0	31.5	28.6	27.0	3.35	14000	16000	30.6	46.4	1.0	0.140
NUP 205 ECML	25	52	15	1.0	31.5	28.6	27.0	3.35	9100	10400	30.6	46.4	1.0	0.140
N 205 ECP	25	52	15	1.0	46.5	28.6	27.0	3.35	14000	16000	30.6	47.8	1.0	0.130
NU 2205 ECP	25	52	18	1.0	31.5	34.1	34.0	4.25	14000	16000	29.2	46.4	1.0	0.160
NU 2205 ECML	25	52	18	1.0	31.5	34.1	34.0	4.25	9100	10400	29.2	46.4	1.0	0.160
NJ 2205 ECP	25	52	18	1.0	31.5	34.1	34.0	4.25	14000	16000	30.0	46.4	1.0	0.170
NJ 2205 ECML	25	52	18	1.0	31.5	34.1	34.0	4.25	9100	10400	30.0	46.4	1.0	0.170
NUP 2205 ECP	25	52	18	1.0	31.5	34.1	34.0	4.25	14000	16000	30.6	46.4	1.0	0.170
NUP 2205 ECML	25	52	18	1.0	31.5	34.1	34.0	4.25	9100	10400	30.6	46.4	1.0	0.170
NU 305 ECP	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.240
NU 305 ECJ	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.240
NU 305 ECML	25	62	17	1.1	34.0	46.5	36.5	4.55	7800	9750	32.0	55.0	1.0	0.240
NJ 305 ECP	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.240
NJ 305 ECJ	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.240
NJ 305 ECML	25	62	17	1.1	34.0	46.5	36.5	4.55	7800	9750	32.0	55.0	1.0	0.240
NUP 305 ECP	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.250
NUP 305 ECJ	25	62	17	1.1	34.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.250
NUP 305 ECML	25	62	17	1.1	34.0	46.5	36.5	4.55	7800	9750	32.0	55.0	1.0	0.250
N 305 ECP	25	62	17	1.1	54.0	46.5	36.5	4.55	12000	15000	32.0	55.0	1.0	0.240
NU 2305 ECP	25	62	24	1.1	34.0	64.0	55.0	6.95	12000	15000	32.0	55.0	1.0	0.340



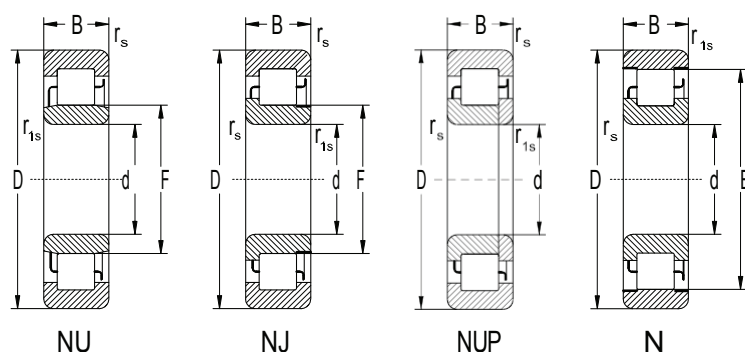
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 2305 ECJ	25	62	24	1.1	34.0	64.0	55.0	6.95	12000	15000	32.0	55.0	1.0	0.340
NU 2305 ECML	25	62	24	1.1	34.0	64.0	55.0	6.95	7800	9750	32.0	55.0	1.0	0.340
NJ 2305 ECP	25	62	24	1.1	34.0	64.0	55.0	6.95	12000	15000	32.0	55.0	1.0	0.350
NJ 2305 ECML	25	62	24	1.1	34.0	64.0	55.0	6.95	7800	9750	32.0	55.0	1.0	0.350
NUP 2305 ECP	25	62	24	1.1	34.0	64.0	55.0	6.95	12000	15000	32.0	55.0	1.0	0.360
NUP 2305 ECML	25	62	24	1.1	34.0	64.0	55.0	6.95	7800	9750	32.0	55.0	1.0	0.360
NU 1006	30	55	13	1.0	36.5	17.9	17.3	1.86	14000	15000	33.2	50.4	1.0	0.120
NU 206 ECP	30	62	16	1.0	37.5	44.0	36.5	4.55	13000	14000	34.2	56.4	1.0	0.200
NU 206 ECJ	30	62	16	1.0	37.5	44.0	36.5	4.55	13000	14000	34.2	56.4	1.0	0.200
NU 206 ECML	30	62	16	1.0	37.5	44.0	36.5	4.55	8450	9100	34.2	56.4	1.0	0.200
NJ 206 ECP	30	62	16	1.0	37.5	44.0	36.5	4.55	13000	14000	35.6	56.4	1.0	0.200
NJ 206 ECJ	30	62	16	1.0	37.5	44.0	36.5	4.55	13000	14000	35.6	56.4	1.0	0.200
NJ 206 ECML	30	62	16	1.0	37.5	44.0	36.5	4.55	8450	9100	35.6	56.4	1.0	0.200
NUP 206 ECP	30	62	16	1.0	37.5	44.0	36.5	4.55	13000	14000	35.6	56.4	1.0	0.210
NUP 206 ECML	30	62	16	1.0	37.5	44.0	36.5	4.55	8450	9100	35.6	56.4	1.0	0.210
N 206 ECP	30	62	16	1.0	55.5	44.0	36.5	4.55	13000	14000	35.6	57.8	1.0	0.200
NU 2206 ECP	30	62	20	1.0	37.5	55.0	49.0	6.10	13000	14000	34.0	57.0	1.0	0.260
NU 2206 ECJ	30	62	20	1.0	37.5	55.0	49.0	6.10	13000	14000	34.0	57.0	1.0	0.260
NU 2206 ECML	30	62	20	1.0	37.5	55.0	49.0	6.10	8450	9100	34.0	57.0	1.0	0.260
NJ 2206 ECP	30	62	20	1.0	37.5	55.0	49.0	6.10	13000	14000	34.0	57.0	1.0	0.260
NJ 2206 ECJ	30	62	20	1.0	37.5	55.0	49.0	6.10	13000	14000	34.0	57.0	1.0	0.260
NJ 2206 ECML	30	62	20	1.0	37.5	55.0	49.0	6.10	8450	9100	34.0	57.0	1.0	0.260
NUP 2206 ECP	30	62	20	1.0	37.5	55.0	49.0	6.10	13000	14000	34.0	57.0	1.0	0.270
NUP 2206 ECML	30	62	20	1.0	37.5	55.0	49.0	6.10	8450	9100	34.0	57.0	1.0	0.270
NU 306 ECP	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.360
NU 306 ECJ	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.360
NU 306 ECML	30	72	19	1.1	40.5	58.5	48.0	6.20	7150	7800	37.0	65.0	1.0	0.360
NJ 306 ECP	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.360
NJ 306 ECJ	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.360



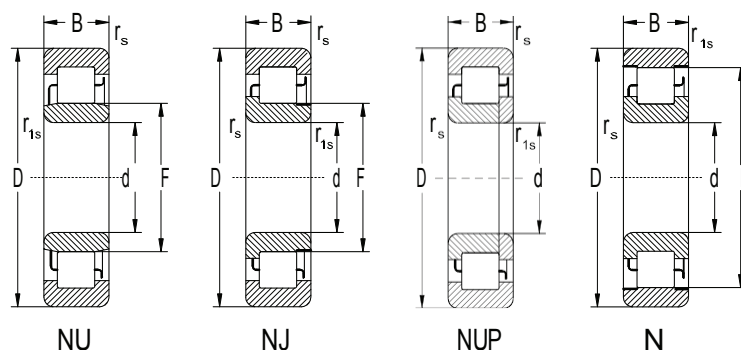
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 306 ECM	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.360
NJ 306 ECML	30	72	19	1.1	40.5	58.5	48.0	6.20	7150	7800	37.0	65.0	1.0	0.360
NUP 306 ECP	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.380
NUP 306 ECJ	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.380
NUP 306 ECM	30	72	19	1.1	40.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.380
NUP 306 ECML	30	72	19	1.1	40.5	58.5	48.0	6.20	7150	7800	37.0	65.0	1.0	0.380
N 306 ECP	30	72	19	1.1	62.5	58.5	48.0	6.20	11000	12000	37.0	65.0	1.0	0.380
NU 2306 ECP	30	72	27	1.1	40.5	83.0	75.0	9.65	11000	12000	37.0	65.0	1.0	0.530
NU 2306 ECML	30	72	27	1.1	40.5	83.0	75.0	9.65	7150	7800	37.0	65.0	1.0	0.530
NJ 2306 ECP	30	72	27	1.1	40.5	83.0	75.0	9.65	11000	12000	37.0	65.0	1.0	0.540
NJ 2306ECML	30	72	27	1.1	40.5	83.0	75.0	9.65	7150	7800	37.0	65.0	1.0	0.540
NUP 2306 ECP	30	72	27	1.1	40.5	83.0	75.0	9.65	11000	12000	37.0	65.0	1.0	0.550
NUP 2306 ECML	30	72	27	1.1	40.5	83.0	75.0	9.65	7150	7800	37.0	65.0	1.0	0.550
NU 406	30	90	23	1.5	45.0	60.5	53.0	6.80	9000	11000	41.0	79.0	1.5	0.750
NJ 406	30	90	23	1.5	45.0	60.5	53.0	6.80	9000	11000	41.0	79.0	1.5	0.790
NU 1007 ECP	35	62	14	1.0	42.0	35.8	38.0	4.55	12000	13000	38.2	56.0	1.0	0.160
NU 207 ECP	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	39.2	65.0	1.0	0.290
NU 207 ECJ	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	39.2	65.0	1.0	0.290
NU 207 ECM	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	39.2	65.0	1.0	0.290
NU 207 ECML	35	72	17	1.1	44.0	56.0	48.0	6.10	7150	7800	39.2	65.0	1.0	0.290
NJ 207 ECP	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.300
NJ 207 ECJ	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.300
NJ 207 ECM	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.300
NJ 307 ECML	35	72	17	1.1	44.0	56.0	48.0	6.10	7150	7800	42.0	65.0	1.0	0.300
NUP 207 ECP	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.310
NUP 207 ECJ	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.310
NUP 207 ECM	35	72	17	1.1	44.0	56.0	48.0	6.10	11000	12000	42.0	65.0	1.0	0.310
NUP 207 ECML	35	72	17	1.1	44.0	56.0	48.0	6.10	7150	7800	42.0	65.0	1.0	0.310
N 207 ECP	35	72	17	1.1	64.0	56.0	48.0	6.10	11000	12000	42.0	67.8	1.0	0.300



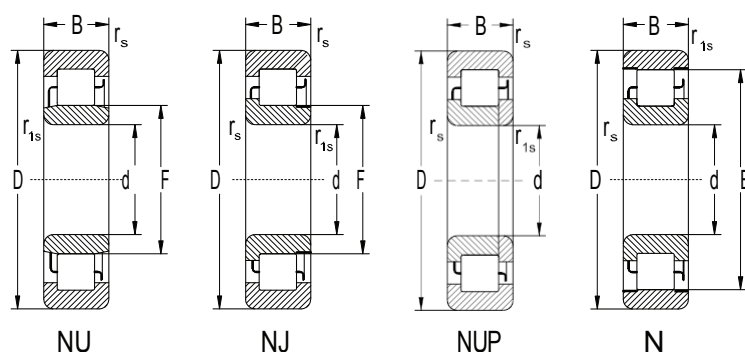
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 2207 ECP	35	72	23	1.1	44.0	69.5	63.0	8.15	11000	12000	39.2	65.0	1.0	0.400
NU 2207 ECJ	35	72	23	1.1	44.0	69.5	63.0	8.15	11000	12000	39.2	65.0	1.0	0.400
NU 2207 ECML	35	72	23	1.1	44.0	69.5	63.0	8.15	7150	7800	39.2	65.0	1.0	0.400
NJ 2207 ECP	35	72	23	1.1	44.0	69.5	63.0	8.15	11000	12000	42.0	65.0	1.0	0.410
NJ 2207 ECJ	35	72	23	1.1	44.0	69.5	63.0	8.15	11000	12000	42.0	65.0	1.0	0.410
NJ 2207 ECML	35	72	23	1.1	44.0	69.5	63.0	8.15	7150	7800	42.0	65.0	1.0	0.410
NUP 2207 ECP	35	72	23	1.1	44.0	69.5	63.0	8.15	11000	12000	42.0	65.0	1.0	0.420
NUP 2207 ECML	35	72	23	1.1	44.0	69.5	63.0	8.15	7150	7800	42.0	65.0	1.0	0.420
NU 307 ECP	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	42.0	71.0	1.5	0.470
NU 307 ECJ	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	42.0	71.0	1.5	0.470
NU 307 ECM	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	42.0	71.0	1.5	0.470
NU 307 ECML	35	80	21	1.5	46.2	75.0	63.0	8.15	6180	7150	42.0	71.0	1.5	0.470
NJ 307 ECP	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.490
NJ 309 ECJ	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.490
NJ 309 ECM	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.490
NJ 309 ECML	35	80	21	1.5	46.2	75.0	63.0	8.15	6180	7800	44.0	71.0	1.5	0.490
NUP 307 ECP	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.500
NUP 307 ECJ	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.500
NUP 307 ECM	35	80	21	1.5	46.2	75.0	63.0	8.15	9500	11000	44.0	71.0	1.5	0.500
NUP 307 ECML	35	80	21	1.5	46.2	75.0	63.0	8.15	6180	7800	44.0	71.0	1.5	0.500
N 307 ECP	35	80	21	1.5	70.2	75.0	63.0	8.15	9500	11000	44.0	73.0	1.5	0.480
NU 2307 ECP	35	80	31	1.5	46.2	106.0	98.0	12.70	9500	11000	42.0	71.0	1.5	0.720
NU 2307 ECJ	35	80	31	1.5	46.2	106.0	98.0	12.70	9500	11000	42.0	71.0	1.5	0.720
NJ 2307 ECP	35	80	31	1.5	46.2	106.0	98.0	12.70	9500	11000	44.0	71.0	1.5	0.730
NUP 2307 ECP	35	80	31	1.5	46.2	106.0	98.0	12.70	9500	11000	44.0	71.0	1.5	0.760
NU 407	35	100	25	1.5	53.0	76.5	69.5	9.00	8000	9500	46.0	89.0	1.5	1.000
NJ 407	35	100	25	1.5	53.0	76.5	69.5	9.00	8000	9500	46.0	89.0	1.5	1.050
NU 1008 ML	40	68	15	1.0	47.0	25.1	26.0	3.00	11000	18000	43.2	63.4	1.0	0.230
NU 208 ECP	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.370



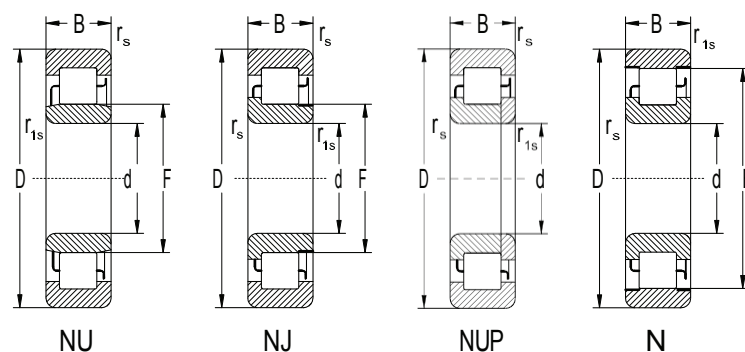
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 208 ECJ	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.370
NU 208 ECM	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.370
NU 208 ECML	40	80	18	1.1	49.5	62.0	53.0	6.70	6180	7150	47.0	73.0	1.0	0.370
NJ 208 ECP	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.390
NJ 208 ECJ	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.390
NJ 208 ECM	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.390
NJ 208 ECML	40	80	18	1.1	49.5	62.0	53.0	6.70	6180	7150	47.0	73.0	1.0	0.390
NUP 208 ECP	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.400
NUP 208 ECJ	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.400
NUP 208 ECM	40	80	18	1.1	49.5	62.0	53.0	6.70	9500	11000	47.0	73.0	1.0	0.400
NUP 208 ECML	40	80	18	1.1	49.5	62.0	53.0	6.70	6180	7100	47.0	73.0	1.0	0.400
N 208 ECP	40	80	18	1.1	49.5	62.0	53.0	6.70	6180	7100	47.0	73.0	1.0	0.400
NU 2208 ECP	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.490
NU 2208 ECJ	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.490
NU 2208 ECML	40	80	23	1.1	49.5	81.5	75.0	9.65	6180	7100	47.0	73.0	1.0	0.490
NJ 2208 ECP	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.500
NJ 2208 ECJ	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.500
NJ 2208 ECML	40	80	23	1.1	49.5	81.5	75.0	9.65	6180	7100	47.0	73.0	1.0	0.500
NUP 2208 ECP	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.510
NUP 2208 ECJ	40	80	23	1.1	49.5	81.5	75.0	9.65	9500	11000	47.0	73.0	1.0	0.510
NUP 2208 ECML	40	80	23	1.1	49.5	81.5	75.0	9.65	6180	7100	47.0	73.0	1.0	0.510
NU 308 ECP	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.650
NU 308 ECJ	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.650
NU 308 ECM	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.650
NU 308 ECML	40	90	23	1.5	52.0	93.0	78.0	10.20	5200	6180	49.0	81.0	1.5	0.650
NJ 308 ECP	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.670
NJ 308 ECJ	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.670
NJ 308 ECM	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.670
NJ 308 ECML	40	90	23	1.5	52.0	93.0	78.0	10.20	5200	6180	49.0	81.0	1.5	0.670



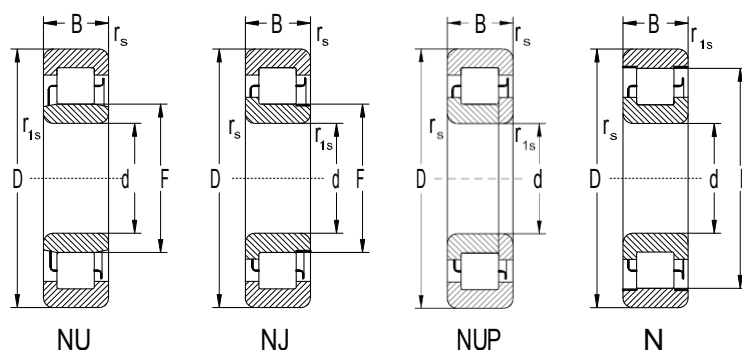
Codice Code	Dimensioni - Dimensions					Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NUP 308 ECP	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.680
NUP 308 ECM	40	90	23	1.5	52.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.680
NUP 308 ECML	40	90	23	1.5	52.0	93.0	78.0	10.20	5200	6180	49.0	81.0	1.5	0.680
N 308 ECP	40	90	23	1.5	80.0	93.0	78.0	10.20	8000	9500	49.0	81.0	1.5	0.650
NU 2308 ECP	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.940
NU 2308 ECJ	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.940
NU 2308 ECM	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.940
NU 2308 ECML	40	90	33	1.5	52.0	129.0	120.0	15.30	5200	6180	49.0	81.0	1.5	0.940
NJ 2308 ECP	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.950
NJ 2308 ECJ	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.950
NJ 2308 ECM	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.950
NJ 2308 ECML	40	90	33	1.5	52.0	129.0	120.0	15.30	5200	6180	49.0	81.0	1.5	0.950
NUP 2308 ECP	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.980
NUP 2308 ECM	40	90	33	1.5	52.0	129.0	120.0	15.30	8000	9500	49.0	81.0	1.5	0.980
NUP 2308 ECML	40	90	33	1.5	52.0	129.0	120.0	15.30	5200	6180	49.0	81.0	1.5	0.980
NU 408	40	110	27	2.0	58.0	96.8	90.0	11.60	7000	8500	53.0	97.0	2.0	1.250
NJ 408	40	110	27	2.0	58.0	96.8	90.0	11.60	7000	8500	53.0	97.0	2.0	1.300
NU 1009 ECP	45	75	16	1.0	52.5	44.6	52.0	6.30	9500	11000	48.2	70.4	1.0	0.260
NU 209 ECP	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.430
NU 209 ECJ	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.430
NU 209 ECM	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.430
NU 209 ECML	45	85	19	1.1	54.5	69.5	64.0	8.15	5850	6180	52.0	78.0	1.0	0.430
NJ 209 ECP	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.440
NJ 209 ECJ	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.440
NJ 209 ECM	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.440
NJ 209 ECML	45	85	19	1.1	54.5	69.5	64.0	8.15	5850	6180	52.0	78.0	1.0	0.440
NUP 209 ECP	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.450
NUP 209 ECJ	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.450
NUP 209 ECM	45	85	19	1.1	54.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.450



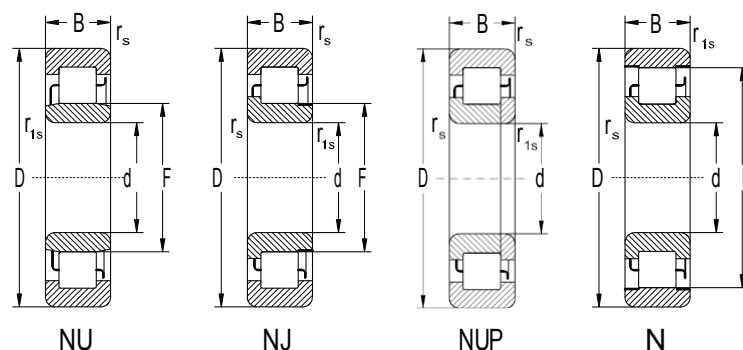
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NUP 209 ECML	45	85	19	1.1	54.5	69.5	64.0	8.15	5850	6180	52.0	78.0	1.0	0.450
N 209 ECP	45	85	19	1.1	76.5	69.5	64.0	8.15	9000	9500	52.0	78.0	1.0	0.430
NU 2208 ECP	45	85	23	1.1	54.5	85.0	81.5	10.60	9000	9500	52.0	78.0	1.0	0.520
NU 2208 ECJ	45	85	23	1.1	54.5	85.0	81.5	10.60	9000	9500	52.0	78.0	1.0	0.520
NJ 2209 ECP	45	85	23	1.1	54.5	85.0	81.5	10.60	9000	9500	52.0	78.0	1.0	0.540
NJ 2209 ECJ	45	85	23	1.1	54.5	85.0	81.5	10.60	9000	9500	52.0	78.0	1.0	0.540
NUP 2209 ECP	45	85	23	1.1	54.5	85.0	81.5	10.60	9000	9500	52.0	78.0	1.0	0.550
NU 309 ECP	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.900
NU 309 ECJ	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.900
NU 309 ECM	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.900
NU 309 ECML	45	100	25	1.5	58.5	112.0	100.0	12.90	4880	5500	54.0	91.0	1.5	0.900
NJ 309 ECP	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.920
NJ 309 EC	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.920
NJ 309 ECM	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.920
NJ 309 ECML	45	100	25	1.5	58.5	112.0	100.0	12.90	4880	5500	54.0	91.0	1.5	0.920
NUP 309 ECP	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.950
NUP 309 ECJ	45	100	25	1.5	58.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.950
NUP 309 ECML	45	100	25	1.5	58.5	112.0	100.0	12.90	4880	5500	54.0	91.0	1.5	0.950
N 309 ECP	45	100	25	1.5	88.5	112.0	100.0	12.90	7500	8500	54.0	91.0	1.5	0.880
NU 2309 ECP	45	100	36	1.5	58.5	160.0	153.0	20.00	7500	8500	54.0	91.0	1.5	1.300
NU 2309 ECML	45	100	36	1.5	58.5	160.0	153.0	20.00	4880	5500	54.0	91.0	1.5	1.300
NJ 2309 ECP	45	100	36	1.5	58.5	160.0	153.0	20.00	7500	8500	54.0	91.0	1.5	1.330
NJ 2309 ECML	45	100	36	1.5	58.5	160.0	153.0	20.00	4880	5500	54.0	91.0	1.5	1.330
NUP 2309 ECP	45	100	36	1.5	58.5	160.0	153.0	20.00	7500	8500	54.0	91.0	1.5	1.330
NUP 2309 ECML	45	100	36	1.5	58.5	160.0	153.0	20.00	4880	5500	54.0	91.0	1.5	1.330
NU 409	45	120	29	2.0	64.5	106.0	102.0	13.40	6700	7500	58.0	107.0	2.0	1.640
NJ 409	45	120	29	2.0	64.5	106.0	102.0	13.40	6700	7500	58.0	107.0	2.0	1.640
NU 1010 ECP	50	80	16	1.0	57.5	46.8	56.0	6.70	9000	9500	53.2	75.4	1.0	0.270
NU 210 ECP	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.480



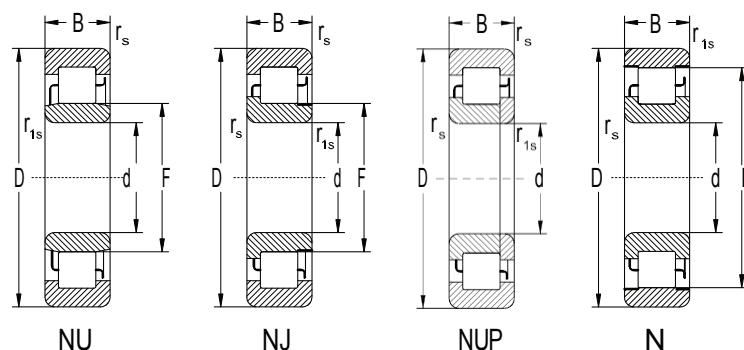
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 210 ECJ	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.480
NU 210 ECM	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.480
NU 210 ECML	50	90	20	1.1	59.5	73.5	69.5	8.80	5500	5850	57.0	83.0	1.0	0.480
NJ 210 ECP	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.490
NJ 210 ECJ	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.490
NJ 210 ECM	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.490
NJ 210 ECML	50	90	20	1.1	59.5	73.5	69.5	8.80	5500	5850	57.0	83.0	1.0	0.490
NUP 210 ECP	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.510
NUP 210 ECJ	50	90	20	1.1	59.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.510
NUP 210 ECML	50	90	20	1.1	59.5	73.5	69.5	8.80	5500	5850	57.0	83.0	1.0	0.510
N 210 ECP	50	90	20	1.1	81.5	73.5	69.5	8.80	8500	9000	57.0	83.0	1.0	0.480
NU 2210 ECP	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.560
NU 2210 ECJ	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.560
NU 2210 ECM	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.560
NU 2210 ECML	50	90	23	1.1	59.5	90.0	88.0	11.40	5500	5850	57.0	83.0	1.0	0.560
NJ 2210 ECP	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.570
NJ 2210 ECJ	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.570
NJ 2210 ECM	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.570
NJ 2210 ECML	50	90	23	1.1	59.5	90.0	88.0	11.40	5500	5850	57.0	83.0	1.0	0.570
NUP 2210 ECP	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.590
NUP 2210 ECJ	50	90	23	1.1	59.5	90.0	88.0	11.40	8500	9000	57.0	83.0	1.0	0.590
NUP 2210 ECML	50	90	23	1.1	59.5	90.0	88.0	11.40	5500	5850	57.0	83.0	1.0	0.590
NU 310 ECP	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.140
NU 310 ECJ	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.140
NU 310 ECM	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.140
NU 310 ECML	50	110	27	2.0	65.0	127.0	112.0	15.00	4350	5200	61.0	99.0	2.0	1.140
NJ 310 ECP	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.170
NJ 310 ECJ	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.170
NJ 310 ECM	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.170



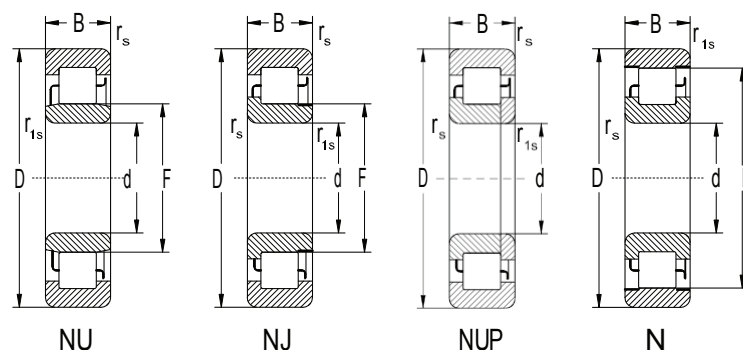
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 310 ECML	50	110	27	2.0	65.0	127.0	112.0	15.00	4350	5200	61.0	99.0	2.0	1.170
NUP 310 ECP	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.200
NUP 310 ECJ	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.200
NUP 310 ECM	50	110	27	2.0	65.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.200
NUP 310 ECML	50	110	27	2.0	65.0	127.0	112.0	15.00	4350	5200	61.0	99.0	2.0	1.200
N 310 ECP	50	110	27	2.0	97.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.140
N 310 ECM	50	110	27	2.0	97.0	127.0	112.0	15.00	6700	8000	61.0	99.0	2.0	1.140
NU 2310 ECP	50	110	40	2.0	65.0	186.0	186.0	24.50	6700	8000	61.0	99.0	2.0	1.730
NU 2310 ECML	50	110	40	2.0	65.0	186.0	186.0	24.50	4350	5200	61.0	99.0	2.0	1.730
NJ 2310 ECP	50	110	40	2.0	65.0	186.0	186.0	24.50	6700	8000	61.0	99.0	2.0	1.730
NJ 2310 ECML	50	110	40	2.0	65.0	186.0	186.0	24.50	4350	5200	61.0	99.0	2.0	1.730
NUP 2310 ECP	50	110	40	2.0	65.0	186.0	186.0	24.50	6700	8000	61.0	99.0	2.0	1.800
NUP 2310 ECML	50	110	40	2.0	65.0	186.0	186.0	24.50	4350	5200	61.0	99.0	2.0	1.880
NU 410	50	130	31	2.1	70.8	130.0	127.0	16.60	6000	7000	64.0	116.0	2.0	2.000
NJ 410	50	130	31	2.1	70.8	130.0	127.0	16.60	6000	7000	64.0	116.0	2.0	2.000
NU 1011 ECP	55	90	18	1.1	64.5	57.2	69.5	8.30	8000	8500	59.6	84.0	1.0	0.390
NU 211 ECP	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	62.0	91.0	1.5	0.660
NU 211 ECJ	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	62.0	91.0	1.5	0.660
NU 211 ECM	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	62.0	91.0	1.5	0.660
NU 211 ECML	55	100	21	1.5	66.0	96.5	95.0	12.20	4880	5200	62.0	91.0	1.5	0.660
NJ 211 ECP	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.670
NJ 211 ECJ	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.670
NJ 211 ECM	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.670
NJ 211 ECML	55	100	21	1.5	66.0	96.5	95.0	12.20	4880	5200	64.0	91.0	1.5	0.670
NUP 211 ECP	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.690
NUP 211 ECJ	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.690
NUP 211 ECM	55	100	21	1.5	66.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.690
NUP 211 ECML	55	100	21	1.5	66.0	96.5	95.0	12.20	4880	5200	64.0	91.0	1.5	0.690
N 211 ECP	55	100	21	1.5	90.0	96.5	95.0	12.20	7500	8000	64.0	91.0	1.5	0.660



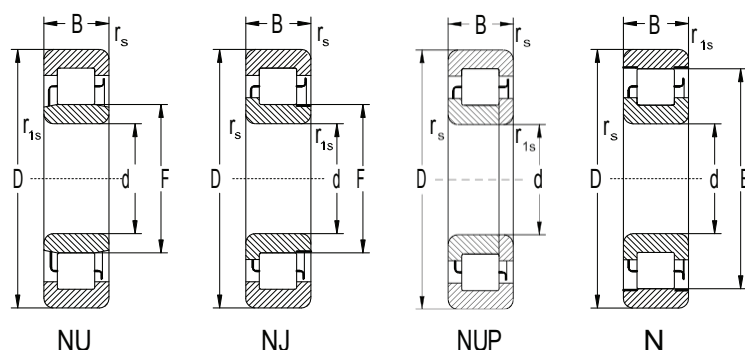
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
N 211 ECM	55	100	21	1.5	90.0	96.5	95.0	12.20	7500	8000	64.0	93.0	1.5	0.660
NU 2211 ECP	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	62.0	91.0	1.5	0.790
NU 2211 ECJ	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	62.0	91.0	1.5	0.790
NU 2211 ECM	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	62.0	91.0	1.5	0.790
NU 2211 ECML	55	100	25	1.5	66.0	114.0	118.0	15.30	4880	5200	62.0	91.0	1.5	0.790
NJ 2211 ECP	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	64.0	91.0	1.5	0.810
NJ 2211 ECJ	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	64.0	91.0	1.5	0.810
NJ 2211 ECM	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	64.0	91.0	1.5	0.810
NJ 2211 ECML	55	100	25	1.5	66.0	114.0	118.0	15.30	4880	5200	64.0	91.0	1.5	0.810
NUP 2211 ECP	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	64.0	91.0	1.5	0.820
NUP 2211 ECJ	55	100	25	1.5	66.0	114.0	118.0	15.30	7500	8000	64.0	91.0	1.5	0.820
NUP 2211 ECML	55	100	25	1.5	66.0	114.0	118.0	15.30	4880	5200	64.0	91.0	1.5	0.820
NU 311 ECP	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.450
NU 311 ECJ	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.450
NU 311 ECM	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.450
NU 311 ECML	55	120	29	2.0	70.5	156.0	143.0	18.60	3900	4550	66.0	109.0	2.0	1.450
NJ 311 ECP	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.500
NJ 311 ECJ	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.500
NJ 311 ECM	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.500
NJ 311 ECML	55	120	29	2.0	70.5	156.0	143.0	18.60	3900	4550	66.0	109.0	2.0	1.500
NUP 311 ECP	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.550
NUP 311 ECJ	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.550
NUP 311 ECM	55	120	29	2.0	70.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.550
NUP 311 ECML	55	120	29	2.0	70.5	156.0	143.0	18.60	3900	4550	66.0	109.0	2.0	1.550
N 311 ECP	55	120	29	2.0	106.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.450
N 311 ECM	55	120	29	2.0	106.5	156.0	143.0	18.60	6000	7000	66.0	109.0	2.0	1.450
NU 2311 ECP	55	120	43	2.0	70.5	232.0	232.0	30.50	6000	7000	66.0	109.0	2.0	2.200
NU 2311 ECML	55	120	43	2.0	70.5	232.0	232.0	30.50	3900	4550	66.0	109.0	2.0	2.200
NJ 2311 ECP	55	120	43	2.0	70.5	232.0	232.0	30.50	3900	4550	66.0	109.0	2.0	2.250



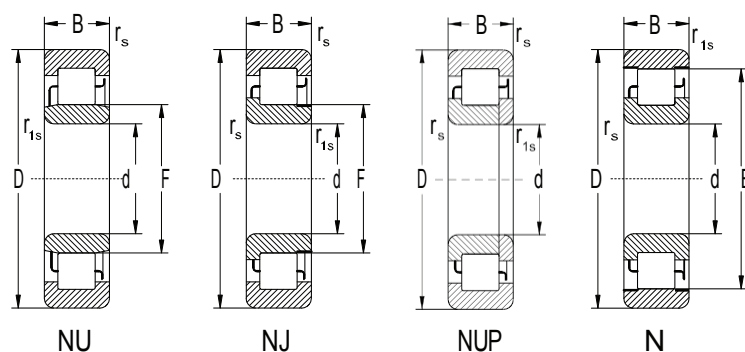
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 2311 ECML	55	120	43	2.0	70.5	232.0	232.0	30.50	3900	4550	66.0	109.0	2.0	2.250
NUP 2311 ECP	55	120	43	2.0	70.5	232.0	232.0	30.50	6000	7000	66.0	109.0	2.0	2.300
NUP 2311 ECML	55	120	43	2.0	70.5	232.0	232.0	30.50	3900	4550	66.0	109.0	2.0	2.300
NU 411	55	140	33	2.1	77.2	142.0	140.0	18.60	5600	6300	69.0	126.0	2.0	2.500
NJ 411	55	140	33	2.1	77.2	142.0	140.0	18.60	5600	6300	69.0	126.0	2.0	2.550
NU 1012 ML	60	95	18	1.1	69.5	37.4	44.0	5.30	8000	11000	64.6	89.0	1.0	0.480
NU 212 ECP	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.800
NU 212 ECJ	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.800
NU 212 ECM	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.800
NU 212 ECML	60	110	22	1.5	72.0	108.0	102.0	13.40	4350	4880	69.0	101.0	1.5	0.800
NJ 212 ECP	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.830
NJ 212 ECJ	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.830
NJ 212 ECM	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.830
NJ 212 ECML	60	110	22	1.5	72.0	108.0	102.0	13.40	4350	4880	69.0	101.0	1.5	0.830
NUP 212 ECP	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.860
NUP 212 ECJ	60	110	22	1.5	72.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.860
NUP 212 ECML	60	110	22	1.5	72.0	108.0	102.0	13.40	4350	4880	69.0	101.0	1.5	0.860
N 212 ECP	60	110	22	1.5	100.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.800
N 212 ECM	60	110	22	1.5	100.0	108.0	102.0	13.40	6700	7500	69.0	101.0	1.5	0.800
NU 2212 ECP	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.050
NU 2212 ECJ	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.050
NU 2212 ECM	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.050
NU 2212 ECML	60	110	28	1.5	72.0	146.0	153.0	20.00	4350	4880	69.0	101.0	1.5	1.050
NJ 2212 ECP	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.100
NJ 2212 ECJ	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.100
NJ 2212 ECM	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.100
NJ 2212 ECML	60	110	28	1.5	72.0	146.0	153.0	20.00	4350	4880	69.0	101.0	1.5	1.100
NUP 2212 ECP	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.150
NUP 2212 ECJ	60	110	28	1.5	72.0	146.0	153.0	20.00	6700	7500	69.0	101.0	1.5	1.150



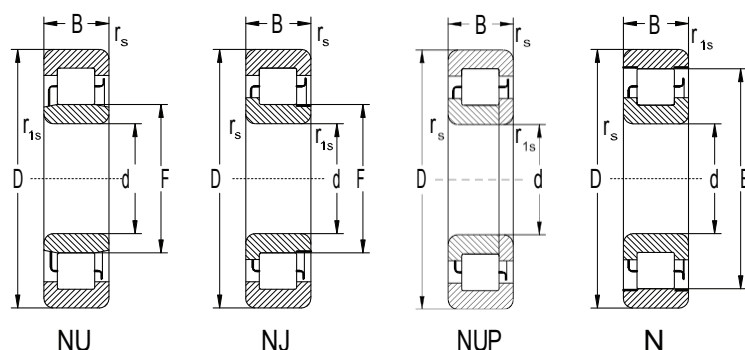
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NUP 2212 ECML	60	110	28	1.5	72.0	146.0	153.0	20.00	4350	4880	69.0	101.0	1.5	1.150
NU 312 ECP	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.770
NU 312 ECJ	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.770
NU 312 ECM	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.770
NU 312 ECML	60	130	31	2.1	77.0	173.0	160.0	20.80	3650	4350	72.0	118.0	2.0	1.770
NJ 312 ECP	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.830
NJ 312 ECJ	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.830
NJ 312 ECM	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.830
NJ 312 ECML	60	130	31	2.1	77.0	173.0	160.0	20.80	3650	4350	72.0	118.0	2.0	1.830
NUP 312 ECP	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.900
NUP 312 ECJ	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.900
NUP 312 ECM	60	130	31	2.1	77.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.900
NUP 312 ECML	60	130	31	2.1	77.0	173.0	160.0	20.80	3650	4350	72.0	118.0	2.0	1.900
N 312 ECP	60	130	31	2.1	115.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.800
N 312 ECM	60	130	31	2.1	115.0	173.0	160.0	20.80	5600	6700	72.0	118.0	2.0	1.800
NU 2312 ECP	60	130	46	2.1	77.0	260.0	265.0	34.50	5600	6700	72.0	118.0	2.0	2.750
NU 2312 ECML	60	130	46	2.1	77.0	260.0	265.0	34.50	3650	4350	72.0	118.0	2.0	2.750
NJ 2312 ECP	60	130	46	2.1	77.0	260.0	265.0	34.50	5600	6700	72.0	118.0	2.0	2.800
NJ 2312 ECJ	60	130	46	2.1	77.0	260.0	265.0	34.50	3650	4350	72.0	118.0	2.0	2.800
NUP 2312 ECP	60	130	46	2.1	77.0	260.0	265.0	34.50	5600	6700	72.0	118.0	2.0	2.850
NUP 2312 ECML	60	130	46	2.1	77.0	260.0	265.0	34.50	3650	4350	72.0	118.0	2.0	2.850
NU 412	60	150	35	2.1	83.0	168.0	173.0	22.00	5000	6000	74.0	136.0	2.0	3.000
NJ 412	60	150	35	2.1	83.0	168.0	173.0	22.00	5000	6000	74.0	136.0	2.0	3.100
NU 1013 ECP	65	100	18	1.1	74.0	62.7	81.5	9.80	7000	7500	69.6	94.0	1.0	0.450
NU 213 ECP	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.030
NU 213 ECJ	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.030
NU 213 ECM	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.030
NU 213 ECML	65	120	23	1.5	78.5	122.0	118.0	15.60	4100	4350	74.0	111.0	1.5	1.030
NJ 213 ECP	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.070



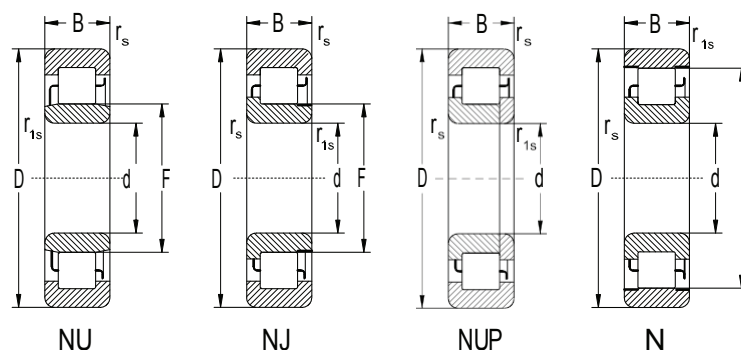
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 213 ECJ	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.070
NJ 213 ECM	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.070
NJ 213 ECML	65	120	23	1.5	78.5	122.0	118.0	15.60	4100	4350	74.0	111.0	1.5	1.070
NUP 213 ECP	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.100
NUP 213 ECJ	65	120	23	1.5	78.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.100
NUP 213 ECML	65	120	23	1.5	78.5	122.0	118.0	15.60	4100	4350	74.0	111.0	1.5	1.100
N 213 ECP	65	120	23	1.5	108.5	122.0	118.0	15.60	6300	6700	74.0	111.0	1.5	1.050
NU 2213 ECP	65	120	31	1.5	78.5	170.0	180.0	24.00	6300	6700	74.0	111.0	1.5	1.400
NU 2213 ECJ	65	120	31	1.5	78.5	170.0	180.0	24.00	6300	6700	74.0	111.0	1.5	1.400
NJ 2213 ECP	65	120	31	1.5	78.5	170.0	180.0	24.00	6300	6700	74.0	111.0	1.5	1.450
NJ 2213 ECJ	65	120	31	1.5	78.5	170.0	180.0	24.00	6300	6700	74.0	111.0	1.5	1.450
NUP 2213 ECP	65	120	31	1.5	78.5	170.0	180.0	24.00	6300	6700	74.0	111.0	1.5	1.500
NU 313 ECP	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.200
NU 313 ECJ	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.200
NU 313 ECM	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.200
NU 313 ECML	65	140	33	2.1	82.5	212.0	196.0	25.50	3450	3900	77.0	128.0	2.0	2.200
NJ 313 ECP	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.300
NJ 313 ECJ	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.300
NJ 313 ECM	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.300
NJ 313 ECML	65	140	33	2.1	82.5	212.0	196.0	25.50	3450	3900	77.0	128.0	2.0	2.300
NUP 313 ECP	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.350
NUP 313 ECJ	65	140	33	2.1	82.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.350
NUP 313 ECML	65	140	33	2.1	82.5	212.0	196.0	25.50	3450	3900	77.0	128.0	2.0	2.350
N 313 ECP	65	140	33	2.1	124.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.200
N 313 ECM	65	140	33	2.1	124.5	212.0	196.0	25.50	5300	6000	77.0	128.0	2.0	2.200
NU 2313 ECP	65	140	48	2.1	82.5	285.0	290.0	38.00	5300	6000	77.0	128.0	2.0	3.200
NU 2313 ECML	65	140	48	2.1	82.5	285.0	290.0	38.00	3450	3900	77.0	128.0	2.0	3.200
NJ 2313 ECP	65	140	48	2.1	82.5	285.0	290.0	38.00	5300	6000	77.0	128.0	2.0	3.350
NJ 2313 ECML	65	140	48	2.1	82.5	285.0	290.0	38.00	3450	3900	77.0	128.0	2.0	3.350



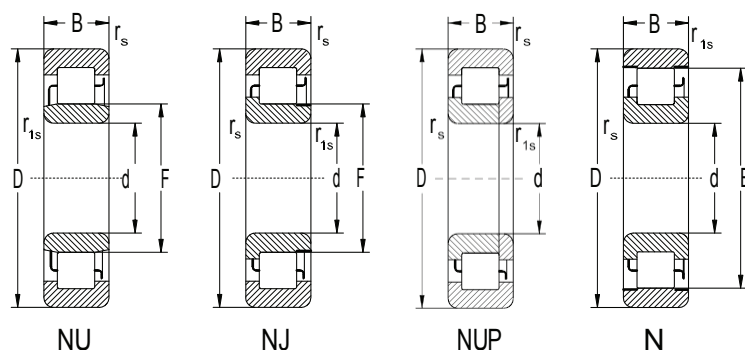
Codice Code	Dimensioni - Dimensions					Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NUP 2313 ECP	65	140	48	2.1	82.5	285.0	290.0	38.00	5300	6000	77.0	128.0	2.0	3.500
NUP 2313 ECML	65	140	48	2.1	82.5	285.0	290.0	38.00	3450	3900	77.0	128.0	2.0	3.500
NU 413	65	160	37	2.1	89.3	183.0	190.0	24.00	4800	5600	79.0	146.0	2.0	3.600
NJ 413	65	160	37	2.1	89.3	183.0	190.0	24.00	4800	5600	79.0	146.0	2.0	3.650
NU 1014 ECP	70	110	20	1.1	79.5	76.5	93.0	12.00	6300	7000	74.6	104.0	1.0	0.620
NU 214 ECP	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NU 214 ECJ	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NU 214 ECM	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NU 214 ECML	70	125	24	1.5	83.5	137.0	137.0	18.00	3900	4100	79.0	116.0	1.5	1.150
NJ 214 ECP	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NJ 214 ECJ	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NJ 214 ECM	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NJ 214 ECML	70	125	24	1.5	83.5	137.0	137.0	18.00	3900	4100	79.0	116.0	1.5	1.150
NUP 214 ECP	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.200
NUP 214 ECM	70	125	24	1.5	83.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.200
NUP 214 ECML	70	125	24	1.5	83.5	137.0	137.0	18.00	3900	4100	79.0	116.0	1.5	1.200
N 214 ECP	70	125	24	1.5	113.5	137.0	137.0	18.00	6000	6300	79.0	116.0	1.5	1.150
NU 2214 ECP	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.500
NU 2214 ECJ	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.500
NU 2214 ECM	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.500
NU 2214 ECML	70	125	31	1.5	83.5	180.0	193.0	25.50	3900	4100	79.0	116.0	1.5	1.500
NJ 2214 ECP	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.550
NJ 2214 ECM	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.550
NJ 2214 ECML	70	125	31	1.5	83.5	180.0	193.0	25.50	3900	4100	79.0	116.0	1.5	1.550
NUP 2214 ECP	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.550
NUP 2214 ECM	70	125	31	1.5	83.5	180.0	193.0	25.50	6000	6300	79.0	116.0	1.5	1.550
NUP 2214 ECML	70	125	31	1.5	83.5	180.0	193.0	25.50	3900	4100	79.0	116.0	1.5	1.550
NU 314 ECP	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.700
NU 314 ECJ	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.700



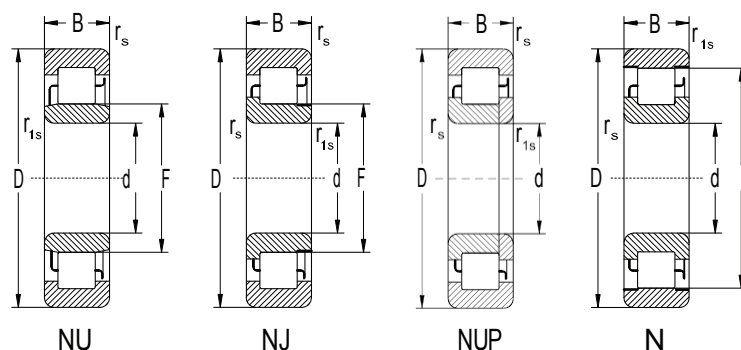
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NU 314 ECM	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.700
NU 314 ECML	70	150	35	2.1	89.0	236.0	228.0	29.00	3100	3650	82.0	138.0	2.0	2.700
NJ 314 ECP	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.900
NJ 314 ECJ	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.900
NJ 314 ECM	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.900
NJ 314 ECML	70	150	35	2.1	89.0	236.0	228.0	29.00	3100	3650	82.0	138.0	2.0	2.900
NUP 314 ECP	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.850
NUP 314 ECM	70	150	35	2.1	89.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.850
NUP 314 ECML	70	150	35	2.1	89.0	236.0	228.0	29.00	3100	3650	82.0	138.0	2.0	2.850
N 314 ECP	70	150	35	2.1	133.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.700
N 314 ECM	70	150	35	2.1	133.0	236.0	228.0	29.00	4800	5600	82.0	138.0	2.0	2.700
NU 2314 ECP	70	150	51	2.1	89.0	315.0	325.0	41.50	4800	5600	82.0	138.0	2.0	3.900
NU 2314 ECML	70	150	51	2.1	89.0	315.0	325.0	41.50	3100	3650	82.0	138.0	2.0	3.900
NJ 2314 ECP	70	150	51	2.1	89.0	315.0	325.0	41.50	4800	5600	82.0	138.0	2.0	4.000
NJ 2314 ECML	70	150	51	2.1	89.0	315.0	325.0	41.50	3100	3650	82.0	138.0	2.0	4.000
NUP 2314 ECP	70	150	51	2.1	89.0	315.0	325.0	41.50	4800	5600	82.0	138.0	2.0	4.100
NUP 2314 ECML	70	150	51	2.1	89.0	315.0	325.0	41.50	3100	3650	82.0	138.0	2.0	4.100
NU 414	70	180	42	3.0	100.0	229.0	240.0	30.00	4300	5000	86.0	164.0	2.5	5.350
NJ 414	70	180	42	3.0	100.0	229.0	240.0	30.00	4300	5000	86.0	164.0	2.5	5.450
NU 1015 ML	75	115	20	1.1	85.0	58.3	71.0	8.50	6700	10000	79.6	109.0	1.0	0.750
NU 215 ECP	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.250
NU 215 ECJ	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.250
NU 215 ECM	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.250
NU 215 ECML	75	130	25	1.5	88.5	150.0	156.0	20.40	3650	3900	84.0	121.0	1.5	1.250
NJ 215 ECP	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.300
NJ 215 ECJ	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.300
NJ 215 ECM	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.300
NJ 215 ECML	75	130	25	1.5	88.5	150.0	156.0	20.40	3650	3900	84.0	121.0	1.5	1.300
NUP 215 ECP	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.350



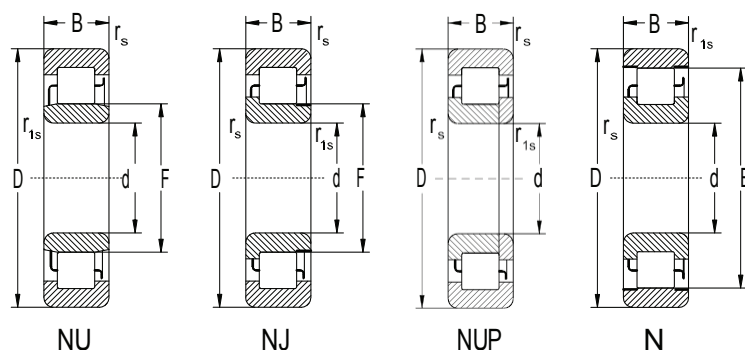
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NUP 215 ECM	75	130	25	1.5	88.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.350
NUP 215 ECML	75	130	25	1.5	88.5	150.0	156.0	20.40	3650	3900	84.0	121.0	1.5	1.350
N 215 ECP	75	130	25	1.5	118.5	150.0	156.0	20.40	5600	6000	84.0	121.0	1.5	1.200
NU 2215 ECP	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.600
NU 2215 ECJ	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.600
NU 2215 ECML	75	130	31	1.5	88.5	186.0	208.0	27.00	3650	3900	84.0	121.0	1.5	1.600
NJ 2215 ECP	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.600
NJ 2215 ECJ	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.600
NJ 2215 ECML	75	130	31	1.5	88.5	186.0	208.0	27.00	3650	3900	84.0	121.0	1.5	1.600
NUP 2215 ECP	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.650
NUP 2215 ECJ	75	130	31	1.5	88.5	186.0	208.0	27.00	5600	6000	84.0	121.0	1.5	1.650
NUP 2215 ECML	75	130	31	1.5	88.5	186.0	208.0	27.00	3650	3900	84.0	121.0	1.5	1.650
NU 315 ECP	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.300
NU 315 ECJ	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.300
NU 315 ECM	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.300
NU 315 ECML	75	160	37	2.1	95.0	280.0	265.0	33.50	2900	3450	87.0	148.0	2.0	3.300
NJ 315 ECP	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.350
NJ 315 ECJ	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.350
NJ 315 ECM	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.350
NJ 315 ECML	75	160	37	2.1	95.0	280.0	265.0	33.50	2900	3450	87.0	148.0	2.0	3.350
NUP 315 ECP	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.450
NUP 215 ECM	75	160	37	2.1	95.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.450
NUP 215 ECML	75	160	37	2.1	95.0	280.0	265.0	33.50	2900	3450	87.0	148.0	2.0	3.450
N 315 ECP	75	160	37	2.1	143.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.300
N 315 ECM	75	160	37	2.1	143.0	280.0	265.0	33.50	4500	5300	87.0	148.0	2.0	3.300
NU 2315 ECP	75	160	55	2.1	95.0	380.0	400.0	50.00	4500	5300	87.0	148.0	2.0	4.800
NU 2315 ECJ	75	160	55	2.1	95.0	380.0	400.0	50.00	4500	5300	87.0	148.0	2.0	4.800
NU 2315 ECML	75	160	55	2.1	95.0	380.0	400.0	50.00	2900	3450	87.0	148.0	2.0	4.800
NJ 2315 ECP	75	160	55	2.1	95.0	380.0	400.0	50.00	4500	5300	87.0	148.0	2.0	5.000



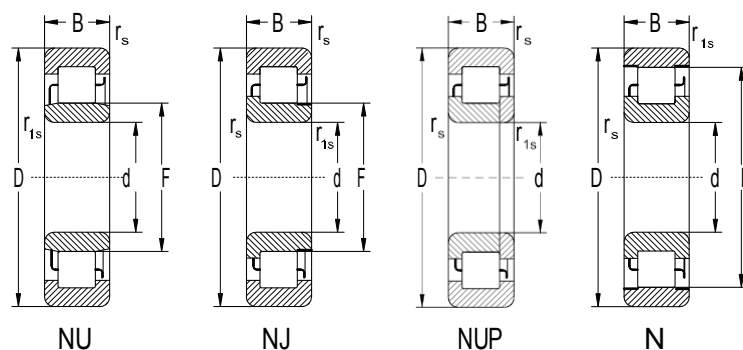
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 2315 ECML	75	160	55	2.1	95.0	380.0	400.0	50.00	2900	3450	87.0	148.0	2.0	5.000
NUP 2315 ECP	75	160	55	2.1	95.0	380.0	400.0	50.00	4500	5300	87.0	148.0	2.0	5.200
NUP 2315 ECML	75	160	55	2.1	95.0	380.0	400.0	50.00	2900	3450	87.0	148.0	2.0	5.200
NU 415	75	190	45	3.0	104.5	264.0	280.0	34.00	4000	4800	91.0	174.0	2.5	6.200
NJ 415	75	190	45	3.0	104.5	264.0	280.0	34.00	4000	4800	91.0	174.0	2.5	6.400
NU 1016	80	125	22	1.1	91.5	66.0	81.5	10.40	6300	6300	86.0	119.0	1.0	1.000
NJ 1016 ECML	80	125	22	1.1	91.5	99.0	127.0	16.30	5600	9500	86.0	119.0	1.0	1.100
NU 216 ECP	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.550
NU 216 ECJ	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.550
NU 216 ECM	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.550
NU 216 ECML	80	140	26	2.0	95.3	160.0	166.0	21.20	3450	3650	91.0	129.0	2.0	1.550
NJ 216 ECP	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.600
NJ 216 ECJ	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.600
NJ 216 ECM	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.600
NJ 216 ECML	80	140	26	2.0	95.3	160.0	166.0	21.20	3450	3650	91.0	129.0	2.0	1.600
NUP 216 ECP	80	140	26	2.0	95.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.650
NUP 216 ECML	80	140	26	2.0	95.3	160.0	166.0	21.20	3450	3650	91.0	129.0	2.0	1.650
N 216 ECP	80	140	26	2.0	127.3	160.0	166.0	21.20	5300	5600	91.0	129.0	2.0	1.550
NU 2216 ECP	80	140	33	2.0	95.3	212.0	245.0	31.00	5300	5600	91.0	129.0	2.0	2.000
NU 2216 ECJ	80	140	33	2.0	95.3	212.0	245.0	31.00	5300	5600	91.0	129.0	2.0	2.000
NU 2216 ECM	80	140	33	2.0	95.3	212.0	245.0	31.00	5300	5600	91.0	129.0	2.0	2.000
NU 2216 ECML	80	140	33	2.0	95.3	212.0	245.0	31.00	3450	3650	91.0	129.0	2.0	2.000
NJ 2216 ECP	80	140	33	2.0	95.3	212.0	245.0	31.0	5300	5600	91.0	129.0	2.0	2.050
NJ 2216 ECJ	80	140	33	2.0	95.3	212.0	245.0	31.0	5300	5600	91.0	129.0	2.0	2.050
NJ 2216 ECM	80	140	33	2.0	95.3	212.0	245.0	31.0	5300	5600	91.0	129.0	2.0	2.050
NJ 2216 ECML	80	140	33	2.0	95.3	212.0	245.0	31.0	3450	3650	91.0	129.0	2.0	2.050
NUP 2216 ECP	80	140	33	2.0	95.3	212.0	245.0	31.0	5300	5600	91.0	129.0	2.0	2.100
NUP 2216 ECM	80	140	33	2.0	95.3	212.0	245.0	31.0	5300	5600	91.0	129.0	2.0	2.100
NUP 2216 ECML	80	140	33	2.0	95.3	212.0	245.0	31.0	3450	3650	91.0	129.0	2.0	2.100



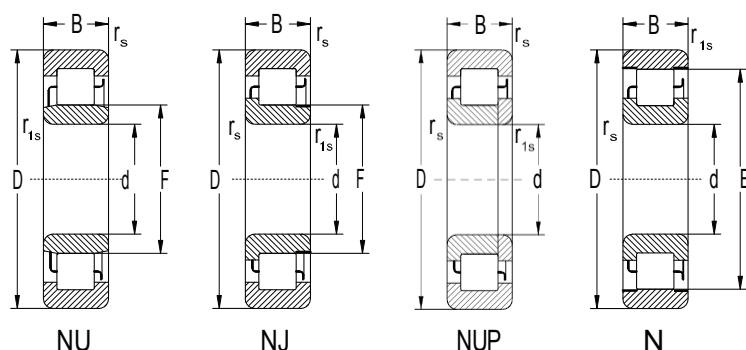
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 316 ECP	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	3.900
NU 316 ECJ	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	3.900
NU 316 ECM	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	3.900
NU 316 ECML	80	170	39	2.1	101.0	300.0	290.0	36.00	2780	3250	92.0	158.0	2.0	3.900
NJ 316 ECP	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	4.000
NJ 316 ECJ	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	4.000
NJ 316 ECM	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	4.000
NJ 316 ECML	80	170	39	2.1	101.0	300.0	290.0	36.00	2780	3250	92.0	158.0	2.0	4.000
NUP 316 ECP	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	4.100
NUP 316 ECM	80	170	39	2.1	101.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	4.100
NUP 316 ECML	80	170	39	2.1	101.0	300.0	290.0	36.00	2780	3250	92.0	158.0	2.0	4.100
N 316 ECP	80	170	39	2.1	151.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	3.900
N 316 ECM	80	170	39	2.1	151.0	300.0	290.0	36.00	4300	5000	92.0	158.0	2.0	3.900
NU 2316 ECP	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	5.850
NU 2316 ECM	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	5.850
NU 2316 ECML	80	170	58	2.1	101.0	415.0	440.0	55.00	2780	3250	92.0	158.0	2.0	5.850
NJ 2316 ECP	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	5.950
NJ 2316 ECM	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	5.950
NJ 2316 ECML	80	170	58	2.1	101.0	415.0	440.0	55.00	2780	3250	92.0	158.0	2.0	5.950
NUP 2316 ECP	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	6.050
NUP 2316 ECM	80	170	58	2.1	101.0	415.0	440.0	55.00	4300	5000	92.0	158.0	2.0	6.050
NUP 2316 ECML	80	170	58	2.1	101.0	415.0	440.0	55.00	2780	3250	92.0	158.0	2.0	6.050
NU 416	80	200	48	3.0	110.0	303.0	320.0	39.00	3800	4500	96.0	184.0	2.5	7.300
NJ 416	80	200	48	3.0	110.0	303.0	320.0	39.00	3800	4500	96.0	184.0	2.5	8.050
NU 1017 ML	85	130	22	1.1	96.5	68.2	86.5	10.80	6000	9000	89.6	124.0	1.0	1.050
NU 217 ECP	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.900
NU 217 ECJ	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.900
NU 217 ECM	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.900
NU 217 ECML	85	150	28	2.0	100.5	190.0	200.0	24.50	3150	3450	96.0	139.0	2.0	1.900



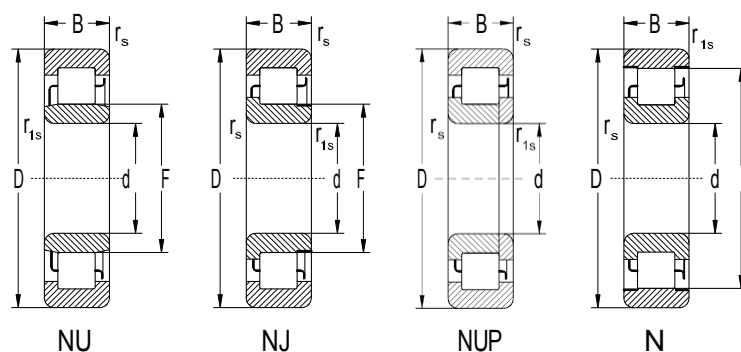
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 217 ECP	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.950
NJ 217 ECJ	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.950
NJ 217 ECM	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.950
NJ 217 ECML	85	150	28	2.0	100.5	190.0	200.0	24.50	3150	3450	96.0	139.0	2.0	1.950
NUP 217 ECP	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	2.000
NUP 217 ECJ	85	150	28	2.0	100.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	2.000
NUP 217 ECML	85	150	28	2.0	100.5	190.0	200.0	24.50	3150	3450	96.0	139.0	2.0	2.000
N 217 ECP	85	150	28	2.0	136.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.900
N 217 ECM	85	150	28	2.0	136.5	190.0	200.0	24.50	4800	5300	96.0	139.0	2.0	1.900
NU 2217 ECP	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.500
NU 2217 ECJ	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.500
NU 2217 ECM	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.500
NU 2217 ECML	85	150	36	2.0	100.5	250.0	280.0	34.50	3150	3450	96.0	139.0	2.0	2.500
NJ 2217 ECP	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.550
NJ 2217 ECJ	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.550
NJ 2217 ECM	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.550
NJ 2217 ECML	85	150	36	2.0	100.5	250.0	280.0	34.50	3150	3450	96.0	139.0	2.0	2.550
NUP 2217 ECP	85	150	36	2.0	100.5	250.0	280.0	34.50	4800	5300	96.0	139.0	2.0	2.600
NUP 2217 ECML	85	150	36	2.0	100.5	250.0	280.0	34.50	3150	3450	96.0	139.0	2.0	2.600
NU 317 ECP	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.600
NU 317 ECJ	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.600
NU 317 ECM	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.600
NJ 317 ECP	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.750
NJ 317 ECJ	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.750
NJ 317 ECM	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.750
NUP 317 ECP	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.900
NUP 317 ECJ	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.900
NUP 317 ECM	85	180	41	3.0	108.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.900
N 317 ECP	85	180	41	3.0	160.0	340.0	335.0	41.5	4000	4800	99.0	166.0	2.5	4.550



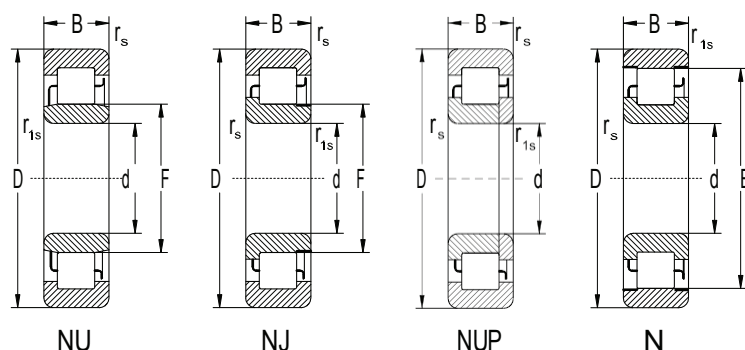
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
N 317 ECM	85	180	41	3.0	160.0	340.0	335.0	41.50	4000	4800	99.0	166.0	2.5	4.550
NU 2317 ECP	85	180	60	3.0	108.0	455.0	490.0	60.00	4000	4800	99.0	166.0	2.5	6.850
NU 2317 ECJ	85	180	60	3.0	108.0	455.0	490.0	60.00	4000	4800	99.0	166.0	2.5	6.850
NU 2317 ECML	85	180	60	3.0	108.0	455.0	490.0	60.00	2600	3150	99.0	166.0	2.5	6.850
NJ 2317 ECP	85	180	60	3.0	108.0	455.0	490.0	60.00	4000	4800	99.0	166.0	2.5	7.000
NJ 2317 ECML	85	180	60	3.0	108.0	455.0	490.0	60.00	2600	3150	99.0	166.0	2.5	7.000
NUP 2317 ECP	85	180	60	3.0	108.0	455.0	490.0	60.00	4000	48000	99.0	166.0	2.5	7.150
NUP 2317 ECML	85	180	60	3.0	108.0	455.0	490.0	60.00	2600	3150	99.0	166.0	2.5	7.150
NU 417	85	210	52	4.0	113.0	319.0	335.0	39.00	3600	4300	105.0	190.0	3.0	9.700
NJ 417	85	210	52	4.0	113.0	319.0	335.0	39.00	3600	4300	105.0	190.0	3.0	8.900
NU 1018 ML	90	140	24	1.5	103.0	80.9	104.0	12.70	5600	8500	96.0	133.0	1.5	1.350
NU 218 ECP	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.300
NU 218 ECJ	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.300
NU 218 ECM	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.300
NU 218 ECML	90	160	30	2.0	107.0	208.0	220.0	27.00	2900	3250	101.0	149.0	2.0	2.300
NJ 218 ECP	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.400
NJ 218 ECJ	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.400
NJ 218 ECM	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.400
NJ 218 ECML	90	160	30	2.0	107.0	208.0	220.0	27.00	2900	3250	101.0	149.0	2.0	2.400
NUP 218 ECP	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.450
NUP 218 ECM	90	160	30	2.0	107.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.450
NUP 218 ECML	90	160	30	2.0	107.0	208.0	220.0	27.00	2900	3250	101.0	149.0	2.0	2.450
N 218 ECP	90	160	30	2.0	145.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.300
N 218 ECM	90	160	30	2.0	145.0	208.0	220.0	27.00	4500	5000	101.0	149.0	2.0	2.300
NU 2218 ECP	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.150
NU 2218 ECJ	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.150
NU 2218 ECM	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.150
NU 2218 ECML	90	160	40	2.0	107.0	280.0	315.0	39.00	2900	3250	101.0	149.0	2.0	3.150
NJ 2218 ECP	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.250



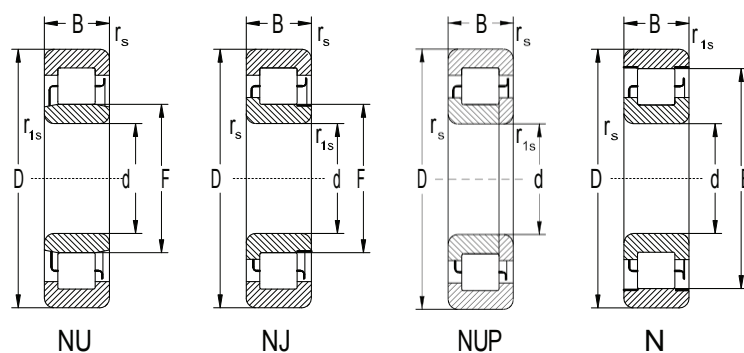
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 2218 ECM	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.250
NJ 2218 ECML	90	160	40	2.0	107.0	280.0	315.0	39.00	2900	3250	101.0	149.0	2.0	3.250
NUP 2218 ECP	90	160	40	2.0	107.0	280.0	315.0	39.00	4500	5000	101.0	149.0	2.0	3.300
NU 318 ECP	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.250
NU 318 ECJ	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.250
NU 318 ECM	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.250
NU 318 ECML	90	190	43	3.0	113.5	365.0	360.0	43.00	2500	2900	104.0	176.0	2.5	5.250
NJ 318 ECP	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.400
NJ 318 ECJ	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.400
NJ 318 ECM	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.400
NJ 318 ECML	90	190	43	3.0	113.5	365.0	360.0	43.00	2500	2900	104.0	176.0	2.5	5.400
NUP 318 ECJ	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.650
NUP 318 ECM	90	190	43	3.0	113.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.650
NUP 318 ECML	90	190	43	3.0	113.5	365.0	360.0	43.00	2500	2900	104.0	176.0	2.5	5.650
N 318 ECP	90	190	43	3.0	169.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.300
N 318 ECM	90	190	43	3.0	169.5	365.0	360.0	43.00	3800	4500	104.0	176.0	2.5	5.300
NU 2318 ECP	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.000
NU 2318 ECJ	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.000
NU 2318 ECML	90	190	64	3.0	113.5	500.0	540.0	65.50	2500	2900	104.0	176.0	2.5	8.000
NJ 2318 ECP	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.150
NJ 2318 ECJ	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.150
NJ 2318 ECM	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.150
NJ 2318 ECML	90	190	64	3.0	113.5	500.0	540.0	65.50	2500	2900	104.0	176.0	2.5	8.150
NUP 2318 ECP	90	190	64	3.0	113.5	500.0	540.0	65.50	3800	4500	104.0	176.0	2.5	8.300
NUP 2318 ECML	90	190	64	3.0	113.5	500.0	540.0	65.50	2500	2900	104.0	176.0	2.5	8.300
NU 418	90	225	54	4.0	123.5	380.0	415.0	48.00	3400	4000	106.0	209.0	3.0	11.500
NU 1019 ML	95	145	24	1.5	108.0	84.2	110.0	13.20	5300	8000	101.0	138.0	1.5	1.450
NU 219 ECP	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.850
NU 219 ECJ	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.850



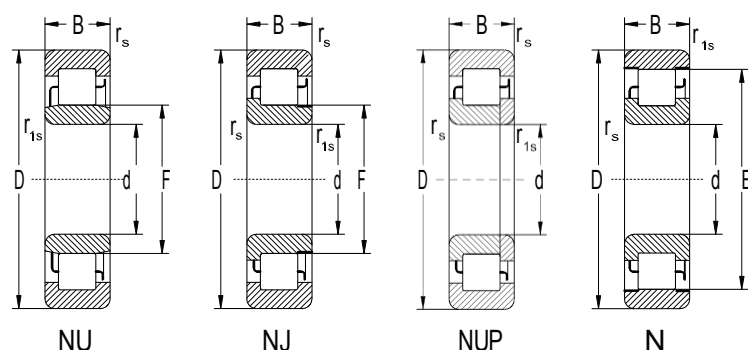
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 219 ECM	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.850
NU 219 ECML	95	170	32	2.1	112.5	255.0	265.0	32.50	2800	3150	107.0	158.0	2.0	2.850
NJ 219 ECP	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.900
NJ 219 ECJ	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.900
NJ 219 ECM	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.900
NJ 219 ECML	95	170	32	2.1	112.5	255.0	265.0	32.50	2800	3150	107.0	158.0	2.0	2.900
NUP 219 ECP	95	170	32	2.1	112.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	3.000
NUP 219 ECML	95	170	32	2.1	112.5	255.0	265.0	32.50	2800	3150	107.0	158.0	2.0	3.000
N 219 ECP	95	170	32	2.1	154.5	255.0	265.0	32.50	4300	4800	107.0	158.0	2.0	2.850
NU 2219 ECP	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.800
NU 2219 ECJ	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.800
NU 2219 ECM	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.800
NJ 2219 ECP	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.950
NJ 2219 ECJ	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.950
NJ 2219 ECM	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	3.950
NUP 2219 ECP	95	170	43	2.1	112.5	325.0	375.0	45.50	4300	4800	107.0	158.0	2.0	4.100
NU 319 ECP	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.200
NU 319 ECJ	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.200
NU 319 ECM	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.200
NU 319 ECML	95	200	45	3.0	121.5	390.0	390.0	46.50	2350	2800	109.0	186.0	2.5	6.200
NJ 319 ECP	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.250
NJ 319 ECJ	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.250
NJ 319 ECM	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.250
NJ 319 ECML	95	200	45	3.0	121.5	390.0	390.0	46.50	2350	2800	109.0	186.0	2.5	6.250
NUP 319 ECP	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.300
NUP 319 ECM	95	200	45	3.0	121.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.300
NUP 319 ECML	95	200	45	3.0	121.5	390.0	390.0	46.50	2350	2800	109.0	186.0	2.5	6.300
N 319 ECP	95	200	45	3.0	177.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.200
N 319 ECM	95	200	45	3.0	177.5	390.0	390.0	46.50	3600	4300	109.0	186.0	2.5	6.200



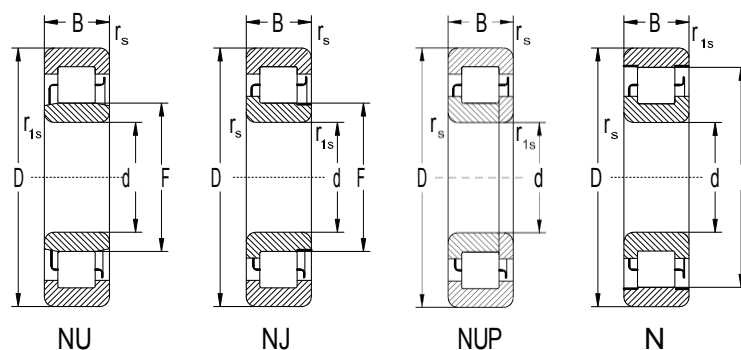
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NU 2319 ECP	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.350
NU 2319 ECJ	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.350
NU 2319 ECML	95	200	67	3.0	121.5	530.0	585.0	69.5	2350	2800	109.0	186.0	2.5	9.350
NJ 2319 ECP	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.550
NJ 2319 ECJ	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.550
NJ 2319 ECML	95	200	67	3.0	121.5	530.0	585.0	69.5	2350	2800	109.0	186.0	2.5	9.550
NUP 2319 ECP	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.750
NUP 2319 ECJ	95	200	67	3.0	121.5	530.0	585.0	69.5	3600	4300	109.0	186.0	2.5	9.750
NUP 2319 ECML	95	200	67	3.0	121.5	530.0	585.0	69.5	2350	2800	109.0	186.0	2.5	9.750
NU 419 M	95	240	55	4.0	133.5	413.0	455.0	52.00	3200	3600	115.0	220.0	3.0	13.500
NU 1020 M	100	150	24	1.5	113.0	85.8	114.0	13.70	5000	7500	106.0	143.0	1.5	1.450
NU 1020 ML	100	150	24	1.5	113.0	85.8	114.0	13.70	3250	4900	106.0	143.0	1.5	1.450
NU 220 ECP	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.400
NU 220 ECJ	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.400
NU 220 ECM	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.400
NU 220 ECML	100	180	34	2.1	119.0	285.0	305.0	36.50	2600	2900	112.0	168.0	2.0	3.400
NJ 220 ECP	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.500
NJ 220 ECJ	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.500
NJ 220 ECM	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.500
NJ 220 ECML	100	180	34	2.1	119.0	285.0	305.0	36.50	2600	2900	112.0	168.0	2.0	3.500
NUP 220 ECP	100	180	34	2.1	119.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.600
NUP 220 ECML	100	180	34	2.1	119.0	385.0	305.0	36.50	2600	2900	112.0	168.0	2.0	3.600
N 220 ECP	100	180	34	2.1	163.0	285.0	305.0	36.50	4000	4500	112.0	168.0	2.0	3.450
NU 2220 ECP	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.750
NU 2220 ECJ	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.750
NU 2220 ECM	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.750
NU 2220 ECML	100	180	46	2.1	119.0	380.0	450.0	54.00	2600	2900	112.0	168.0	2.0	4.750
NJ 2220 ECP	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.800
NJ 2220 ECJ	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.800



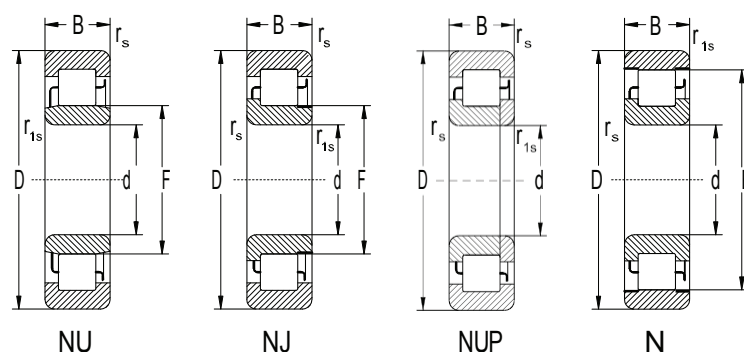
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NJ 2220 ECM	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.800
NJ 2220 ECML	100	180	46	2.1	119.0	380.0	450.0	54.00	2600	2900	112.0	168.0	2.0	4.800
NUP 2220 ECP	100	180	46	2.1	119.0	380.0	450.0	54.00	4000	4500	112.0	168.0	2.0	4.900
NUP 2220 ECML	100	180	46	2.1	119.0	380.0	450.0	54.00	2600	2900	112.0	168.0	2.0	4.900
NU 320 ECP	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.450
NU 320 ECJ	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.450
NU 320 ECM	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.450
NU 320 ECML	100	215	47	3.0	127.5	450.0	440.0	51.00	2100	2500	114.0	201.0	2.5	7.450
NJ 320 ECP	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.650
NJ 320 ECJ	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.650
NJ 320 ECM	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.650
NJ 320 ECML	100	215	47	3.0	127.5	450.0	440.0	51.00	2100	2500	114.0	201.0	2.5	7.650
NUP 320 ECJ	100	215	47	3.0	127.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.850
NUP 320 ECML	100	215	47	3.0	127.5	450.0	440.0	51.00	2100	2500	114.0	201.0	2.5	7.850
N 320 ECP	100	215	47	3.0	191.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.500
N 320 ECM	100	215	47	3.0	191.5	450.0	440.0	51.00	3200	3800	114.0	201.0	2.5	7.500
NU 2320 ECP	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.000
NU 2320 ECJ	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.000
NU 2320 ECM	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.000
NU 2320 ECML	100	215	73	3.0	127.5	670.0	735.0	85.00	2100	2500	114.0	201.0	2.5	12.000
NJ 2320 ECP	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.200
NJ 2320 ECJ	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.200
NJ 2320 ECM	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.200
NJ 2320 ECML	100	215	73	3.0	127.5	670.0	735.0	85.00	2100	2500	114.0	201.0	2.5	12.200
NUP 2320 ECP	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.500
NUP 2320 ECJ	100	215	73	3.0	127.5	670.0	735.0	85.00	3200	3800	114.0	201.0	2.5	12.500
NUP 2320 ECML	100	215	73	3.0	127.5	670.0	735.0	85.00	2100	2500	114.0	201.0	2.5	12.500
NU 420 M	100	250	58	4.0	139.0	429.	475.0	53.00	3000	3600	120.0	230.0	3.0	14.000
NU 1021 ML	105	160	26	2.0	119.5	101.0	137.0	16.00	4800	7500	111.0	151.0	2.0	1.900



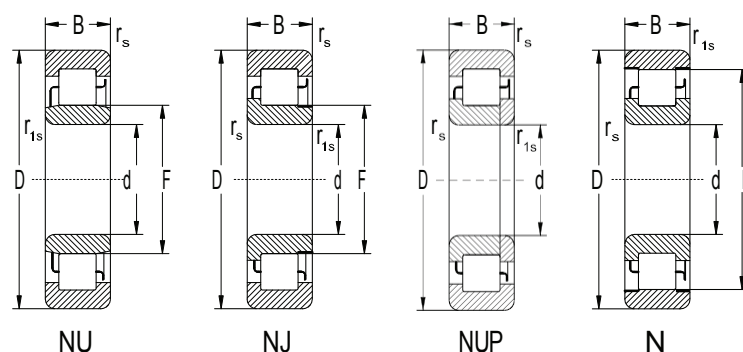
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NU 221 ECP	105	190	36	2.1	125.0	300.0	315.0	36.50	3800	4300	117.0	178.0	2.0	4.000
NU 221 ECJ	105	190	36	2.1	125.0	300.0	315.0	36.50	3800	4300	117.0	178.0	2.0	4.000
NU 221 ECML	105	190	36	2.1	125.0	300.0	315.0	36.50	2500	2800	117.0	178.0	2.0	4.000
NJ 221 ECP	105	190	36	2.1	125.0	300.0	315.0	36.50	3800	4300	117.0	178.0	2.0	4.100
NJ 221 ECML	105	190	36	2.1	125.0	300.0	315.0	36.50	2500	2800	117.0	178.0	2.0	4.100
NUP 221 ECP	105	190	36	2.1	125.0	300.0	315.0	36.50	3800	4300	117.0	178.0	2.0	4.200
NUP 221 ECML	105	190	36	2.1	125.0	300.0	315.0	36.50	2500	2800	117.0	178.0	2.0	4.200
N 221 ECP	105	190	36	2.1	125.0	300.0	315.0	36.50	3800	4300	117.0	178.0	2.0	3.950
NU 321 ECP	105	225	49	3.0	133.0	500.0	500.0	57.00	3200	3800	119.0	211.0	2.5	8.550
NU 321 ECJ	105	225	49	3.0	133.0	500.0	500.0	57.00	3200	3800	119.0	211.0	2.5	8.550
NU 321 ECML	105	225	49	3.0	133.0	500.0	500.0	57.00	2100	2500	119.0	211.0	2.5	8.550
NJ 321 ECJ	105	225	49	3.0	133.0	500.0	500.0	57.00	3200	3800	119.0	211.0	2.5	8.750
NJ 321 ECML	105	225	49	3.0	133.0	500.0	500.0	57.00	2100	2500	119.0	211.0	2.5	8.750
N 321 ECP	105	225	49	3.0	201.0	500.0	500.0	57.00	3200	3800	119.0	211.0	2.5	8.600
NU 421 M	105	260	60	4.0	144.5	501.0	570.0	64.00	2800	3400	125.0	240.0	3.0	19.000
NU 1022 ML	110	170	28	2.0	125.0	128.0	166.0	19.30	4500	7000	116.0	161.0	2.0	2.350
NU 222 ECP	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.800
NU 222 ECJ	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.800
NU 222 ECM	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.800
NU 222 ECML	110	200	38	2.1	132.5	335.0	365.0	42.50	2350	2600	122.0	188.0	2.0	4.800
NJ 222 ECP	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.900
NJ 222 ECJ	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.900
NJ 222 ECM	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.900
NJ 222 ECML	110	200	38	2.1	132.5	335.0	365.0	42.50	2350	2600	122.0	188.0	2.0	4.900
NUP 222 ECP	110	200	38	2.1	132.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	5.000
NUP 222 ECML	110	200	38	2.1	132.5	335.0	365.0	42.50	2350	2600	122.0	188.0	2.0	5.000
N 222 ECP	110	200	38	2.1	180.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.800
N 222 ECM	110	200	38	2.1	180.5	335.0	365.0	42.50	3600	4000	122.0	188.0	2.0	4.800
NU 2222 ECP	110	200	53	2.1	132.5	440.0	520.0	61.00	3600	4000	122.0	188.0	2.0	6.700



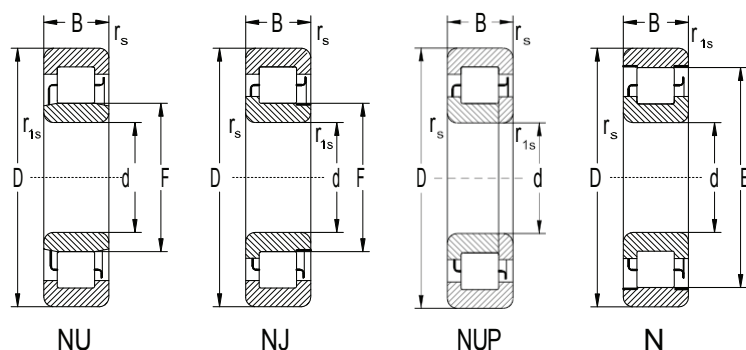
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 2222 ECJ	110	200	53	2.1	132.5	440.0	520.0	61.00	3600	4000	122.0	188.0	2.0	6.700
NU 2222 ECML	110	200	53	2.1	132.5	440.0	520.0	61.00	2350	2600	122.0	188.0	2.0	6.700
NJ 2222 ECP	110	200	53	2.1	132.5	440.0	520.0	61.00	3600	4000	122.0	188.0	2.0	6.750
NJ 2222 ECJ	110	200	53	2.1	132.5	440.0	520.0	61.00	3600	4000	122.0	188.0	2.0	6.750
NJ 2222 ECML	110	200	53	2.1	132.5	440.0	520.0	61.00	2350	2600	122.0	188.0	2.0	6.750
NUP 2222 ECP	110	200	53	2.1	132.5	440.0	520.0	61.00	3600	4000	122.0	188.0	2.0	6.800
NUP 2222 ECML	110	200	53	2.1	132.5	440.0	520.0	61.00	2350	2600	122.0	188.0	2.0	6.800
NU 322 ECP	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.300
NU 322 ECJ	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.300
NU 322 ECM	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.300
NU 322 ECML	110	240	50	3.0	143.0	530.0	540.0	61.00	1950	2200	124.0	226.0	2.5	10.300
NJ 322 ECP	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.500
NJ 322 ECJ	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.500
NJ 322 ECM	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.500
NJ 322 ECML	110	240	50	3.0	143.0	530.0	540.0	61.00	1950	2200	124.0	226.0	2.5	10.500
NUP 322 ECP	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.700
NUP 322 ECJ	110	240	50	3.0	143.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.700
NUP 322 ECML	110	240	50	3.0	143.0	530.0	540.0	61.00	1950	2200	124.0	226.0	2.5	10.700
N 322 ECP	110	240	50	3.0	211.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.200
N 322 ECM	110	240	50	3.0	211.0	530.0	540.0	61.00	3000	3400	124.0	226.0	2.5	10.200
NU 2322 ECP	110	240	80	3.0	143.0	780.0	900.0	102.00	3000	3400	124.0	226.0	2.5	17.000
NU 2322 ECMA	110	240	80	3.0	143.0	780.0	900.0	102.00	2250	2550	124.0	226.0	2.5	17.000
NJ 2322 ECP	110	240	80	3.0	143.0	780.0	900.0	102.00	3000	3400	124.0	226.0	2.5	17.200
NJ 2322 ECMA	110	240	80	3.0	143.0	780.0	900.0	102.00	2250	2550	124.0	226.0	2.5	17.200
NUP 2322 ECP	110	240	80	3.0	143.0	780.0	900.0	102.0	3000	3400	124.0	226.0	2.5	17.400
NUP 2322 ECMA	110	240	80	3.0	143.0	780.0	900.0	102.0	2250	2550	124.0	226.0	2.5	17.400
NU 422	110	280	65	4.0	155.0	532.0	585.0	64.00	2600	3200	130.0	260.0	3.0	20.000
NJ 422	110	280	65	4.0	155.0	532.0	585.0	64.00	2600	3200	130.0	260.0	3.0	20.300
NU 1024 ML	120	180	28	2.0	135.0	134.0	183.0	20.80	4000	6300	126.0	171.0	2.0	2.550



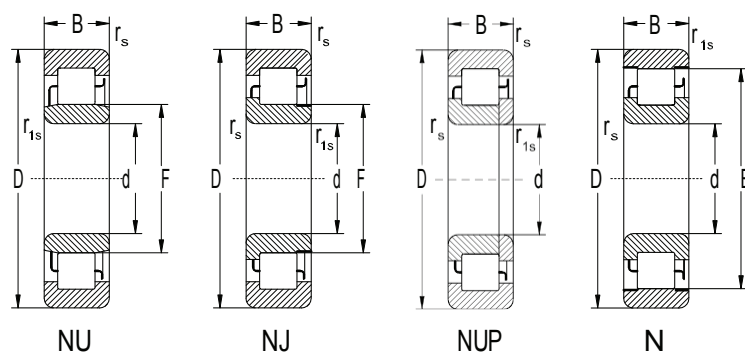
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NU 224 ECP	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.750
NU 224 ECJ	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.750
NU 224 ECM	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.750
NU 224 ECML	120	215	40	2.1	143.5	390.0	430.0	49.00	2200	2350	132.0	203.0	2.0	5.750
NJ 224 ECP	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.850
NJ 224 ECJ	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.850
NJ 224 ECM	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.850
NJ 224 ECML	120	215	40	2.1	143.5	390.0	430.0	49.00	2200	2350	132.0	203.0	2.0	5.850
NUP 224 ECJ	120	215	40	2.1	143.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	6.000
NUP 224 ECML	120	215	40	2.1	143.5	390.0	430.0	49.00	2200	2350	132.0	203.0	2.0	6.000
N 224 ECP	120	215	40	2.1	195.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.750
N 224 ECM	120	215	40	2.1	195.5	390.0	430.0	49.00	3400	3600	132.0	203.0	2.0	5.750
NU 2224 ECP	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.300
NU 2224 ECJ	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.300
NU 2224 ECM	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.300
NU 2224 ECML	120	215	58	2.1	143.5	520.0	630.0	72.00	2200	2350	132.0	203.0	2.0	8.300
NJ 2224 ECP	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.500
NJ 2224 ECJ	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.500
NJ 2224 ECM	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.500
NJ 2224 ECML	120	215	58	2.1	143.5	520.0	630.0	72.00	2200	2350	132.0	203.0	2.0	8.500
NUP 2224 ECP	120	215	58	2.1	143.5	520.0	630.0	72.00	3400	3600	132.0	203.0	2.0	8.700
NUP 2224 ECML	120	215	58	2.1	143.5	520.0	630.0	72.00	2200	2350	132.0	203.0	2.0	8.700
NU 324 ECP	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.000
NU 324 ECJ	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.000
NU 324 ECM	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.000
NU 324 ECML	120	260	55	3.0	154.0	610.0	620.0	69.50	1800	2000	134.0	246.0	2.5	13.000
NJ 324 ECP	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.300
NJ 324 ECJ	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.300
NJ 324 ECM	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.300



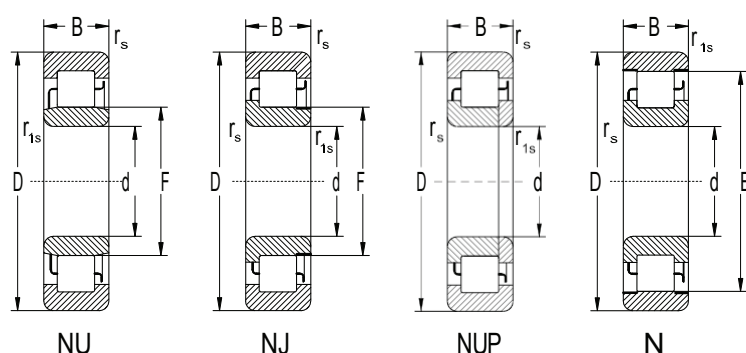
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NJ 324 ECML	120	260	55	3.0	154.0	610.0	620.0	69.50	1800	2000	134.0	246.0	2.5	13.300
NUP 324 ECP	120	260	55	3.0	154.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.700
NUP 324 ECML	120	260	55	3.0	154.0	610.0	620.0	69.50	1800	2000	134.0	246.0	2.5	13.700
N 324 ECP	120	260	55	3.0	230.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.700
N 324 ECM	120	260	55	3.0	230.0	610.0	620.0	69.50	2800	3200	134.0	246.0	2.5	13.700
NU 2324 ECMA	120	260	86	3.0	154.0	915.0	1040.0	116.00	2800	4300	134.0	246.0	2.5	23.300
NJ 2324 ECMA	120	260	86	3.0	154.0	915.0	1040.0	116.00	2800	4300	134.0	246.0	2.5	23.600
NUP 2324 ECMA	120	260	86	3.0	154.0	915.0	1040.0	116.00	2800	4300	134.0	246.0	2.5	24.000
NU 424	120	310	72	5.0	170.0	644.0	735.0	78.00	2400	2800	144.0	286.0	4.0	28.000
NU 1026 ML	130	200	33	2.0	148.0	165.0	224.0	25.00	3800	5600	136.0	191.0	2.0	3.850
NU 226 ECP	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.450
NU 226 ECJ	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.450
NU 226 ECM	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.450
NU 226 ECML	130	230	40	3.0	153.5	415.0	455.0	51.00	2000	2200	144.0	216.0	2.5	6.450
NJ 226 ECP	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.600
NJ 226 ECJ	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.600
NJ 226 ECM	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.600
NJ 226 ECML	130	230	40	3.0	153.5	415.0	455.0	51.00	2000	2200	144.0	216.0	2.5	6.600
NUP 226 ECP	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.750
NUP 226 ECJ	130	230	40	3.0	153.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.750
NUP 226 ECML	130	230	40	3.0	153.5	415.0	455.0	51.00	2000	2200	144.0	216.0	2.5	6.750
N 226 ECP	130	230	40	3.0	209.5	415.0	455.0	51.00	3200	3400	144.0	216.0	2.5	6.300
NU 2226 ECP	130	230	64	3.0	153.5	610.0	735.0	83.00	3200	3400	144.0	216.0	2.5	10.300
NU 2226 ECML	130	230	64	3.0	153.5	610.0	735.0	83.00	2000	2200	144.0	216.0	2.5	10.300
NJ 2226 ECP	130	230	64	3.0	153.5	610.0	735.0	83.00	3200	3400	144.0	216.0	2.5	10.600
NJ 2226 ECML	130	230	64	3.0	153.5	610.0	735.0	83.00	2000	2200	144.0	216.0	2.5	10.600
NUP 2226 ECP	130	230	64	3.0	153.5	610.0	735.0	83.00	3200	3400	144.0	216.0	2.5	11.000
NUP 2226 ECML	130	230	64	3.0	153.5	610.0	735.0	83.00	2000	2200	144.0	216.0	2.5	11.000
NU 326 ECP	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.100



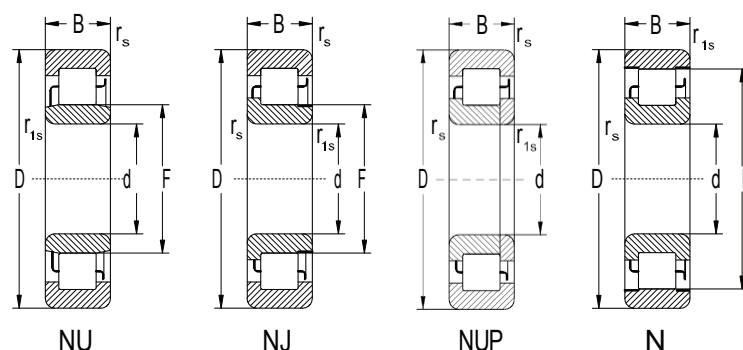
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NU 326 ECJ	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.100
NU 326 ECM	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.100
NU 326 ECML	130	280	58	4.0	167.0	720.0	750.0	81.50	1550	1950	147.0	263.0	3.0	16.100
NJ 326 ECP	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.500
NJ 326 ECJ	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.500
NJ 326 ECM	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.500
NJ 326 ECML	130	280	58	4.0	167.0	720.0	750.0	81.50	1550	1950	147.0	263.0	3.0	16.500
NUP 326 ECP	130	280	58	4.0	167.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	17.000
NUP 326 ECML	130	280	58	4.0	167.0	720.0	750.0	81.50	1550	1950	147.0	263.0	3.0	17.000
N 326 ECP	130	280	58	4.0	247.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.000
N 326 ECM	130	280	58	4.0	247.0	720.0	750.0	81.50	2400	3000	147.0	263.0	3.0	16.000
NU 2326 ECMA	130	280	93	4.0	167.0	1060.0	1250.0	137.00	2400	3800	147.0	263.0	3.0	30.000
NJ 2326 ECMA	130	280	93	4.0	167.0	1060.0	1250.0	137.00	2400	3800	147.0	263.0	3.0	30.500
NUP 2326 ECMA	130	280	93	4.0	167.0	1060.0	1250.0	137.00	2400	3800	147.0	263.0	3.0	31.000
NU 1028 ML	140	210	33	2.0	158.0	172.0	245.0	27.00	3600	5300	146.0	201.0	2.0	4.050
NU 228 ECM	140	250	42	3.0	169.0	450.0	510.0	57.00	2800	3200	154.0	236.0	2.5	9.000
NU 228 ECJ	140	250	42	3.0	169.0	450.0	510.0	57.00	2800	3200	154.0	236.0	2.5	9.000
NU 228 ECML	140	250	42	3.0	169.0	450.0	510.0	57.00	1800	2000	154.0	236.0	2.5	9.000
NJ 228 ECM	140	250	42	3.0	169.0	450.0	510.0	57.00	2800	3200	154.0	236.0	2.5	9.200
NJ 228 ECJ	140	250	42	3.0	169.0	450.0	510.0	57.00	2800	3200	154.0	236.0	2.5	9.200
NJ 228 ECML	140	250	42	3.0	169.0	450.0	510.0	57.00	1800	2000	154.0	236.0	2.5	9.200
NUP 228 ECM	140	250	42	3.0	169.0	450.0	510.0	57.00	2800	3200	154.0	236.0	2.5	9.400
NUP 228 ECML	140	250	42	3.0	169.0	450.0	510.0	57.00	1800	2000	154.0	236.0	2.5	9.400
NU 2228 ECML	140	250	68	3.0	169.0	655.0	830.0	93.00	2800	4800	154.0	236.0	2.5	15.000
NJ 2228 ECML	140	250	68	3.0	169.0	655.0	830.0	93.00	2800	4800	154.0	236.0	2.5	15.300
NUP 2228 ECML	140	250	68	3.0	169.0	655.0	830.0	93.00	2800	4800	154.0	236.0	2.5	15.600
NU 328 ECM	140	300	62	4.0	180.0	780.0	830.0	88.00	2400	2800	157.0	283.0	3.0	22.000
NU 328 ECJ	140	300	62	4.0	180.0	780.0	830.0	88.00	2400	2800	157.0	283.0	3.0	22.000
NU 328 ECML	140	300	62	4.0	180.0	780.0	830.0	88.00	1550	1800	157.0	283.0	3.0	22.000



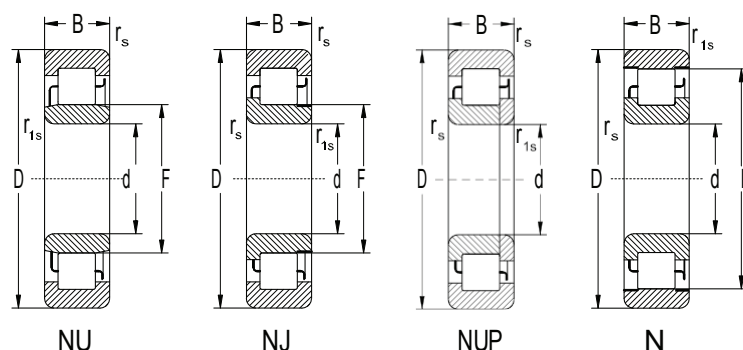
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NJ 328 ECM	140	300	62	4.0	180.0	780.0	830.0	88.00	2400	2800	157.0	283.0	3.0	22.500
NJ 328 ECJ	140	300	62	4.0	180.0	780.0	830.0	88.00	2400	2800	157.0	283.0	3.0	22.500
NJ 328 ECML	140	300	62	4.0	180.0	780.0	830.0	88.00	1550	1800	157.0	283.0	3.0	22.500
NUP 328 ECM	140	300	62	4.0	180.0	780.0	830.0	88.00	2400	2800	157.0	283.0	3.0	23.000
NUP 328 ECML	140	300	62	4.0	180.0	780.0	830.0	88.00	1550	1800	157.0	283.0	3.0	23.000
NU 2328 ECMA	140	300	102	4.0	180.0	1200.0	1430.0	150.00	2400	3600	157.0	283.0	3.0	37.000
NJ 2328 ECMA	140	300	102	4.0	180.0	1200.0	1430.0	150.00	2400	3600	157.0	283.0	3.0	37.500
NUP 2328 ECMA	140	300	102	4.0	180.0	1200.0	1430.0	150.00	2400	3600	157.0	283.0	3.0	38.000
NU 1030 ML	150	225	35	2.1	169.5	194.0	275.0	30.00	3200	5000	157.0	215.0	2.0	4.900
NU 230 ECM	150	270	45	3.0	182.0	510.0	600.0	64.00	2600	2800	163.0	256.0	2.5	11.800
NU 230 ECJ	150	270	45	3.0	182.0	510.0	600.0	64.00	2600	2800	163.0	256.0	2.5	11.800
NU 230 ECML	150	270	45	3.0	182.0	510.0	600.0	64.00	1700	1850	163.0	256.0	2.5	11.800
NJ 230 ECM	150	270	45	3.0	182.0	510.0	600.0	64.00	2600	2800	163.0	256.0	2.5	12.000
NJ 230 ECJ	150	270	45	3.0	182.0	510.0	600.0	64.00	2600	2800	163.0	256.0	2.5	12.000
NJ 230 ECML	150	270	45	3.0	182.0	510.0	600.0	64.00	1700	1850	163.0	256.0	2.5	12.000
NUP 230 ECM	150	270	45	3.0	182.0	510.0	600.0	64.00	2600	2800	163.0	256.0	2.5	12.200
NUP 230 ECML	150	270	45	3.0	182.0	510.0	600.0	64.00	1700	1850	163.0	256.0	2.5	12.200
NU 2230 ECM	150	270	73	3.0	182.0	735.0	930.0	100.00	2600	2800	164.0	256.0	2.5	18.500
NJ 2230 ECM	150	270	73	3.0	182.0	735.0	930.0	100.00	2600	2800	164.0	256.0	2.5	19.000
NU 330 ECM	150	320	65	4.0	193.0	900.0	965.0	100.00	2200	2600	167.0	303.0	3.0	26.300
NU 330 ECMA	150	320	65	4.0	193.0	900.0	965.0	100.00	1650	1950	167.0	303.0	3.0	26.300
NJ 330 ECM	150	320	65	4.0	193.0	900.0	965.0	100.00	2200	2600	167.0	303.0	3.0	27.000
NJ 330 ECMA	150	320	65	4.0	193.0	900.0	965.0	100.00	1650	1950	167.0	303.0	3.0	27.000
NU 2330 ECMA	150	320	108	4.0	193.0	1370.0	1630.0	166.00	2200	3400	167.0	303.0	3.0	45.500
NJ 2330 ECMA	150	320	108	4.0	193.0	1370.0	1630.0	166.00	2200	3400	167.0	303.0	3.0	46.000
NUP 2330 ECMA	150	320	108	4.0	193.0	1370.0	1630.0	166.00	2200	3400	167.0	303.0	3.0	46.500
NU 1032 ML	160	240	38	2.1	180.0	229.0	325.0	35.50	3000	4800	167.0	230.0	2.0	5.950
NU 232 ECM	160	290	48	3.0	195.0	585.0	680.0	72.00	2400	2600	174.0	276.0	2.5	14.100
NU 232 ECML	160	290	48	3.0	195.0	585.0	680.0	72.00	1550	1700	174.0	276.0	2.5	14.100



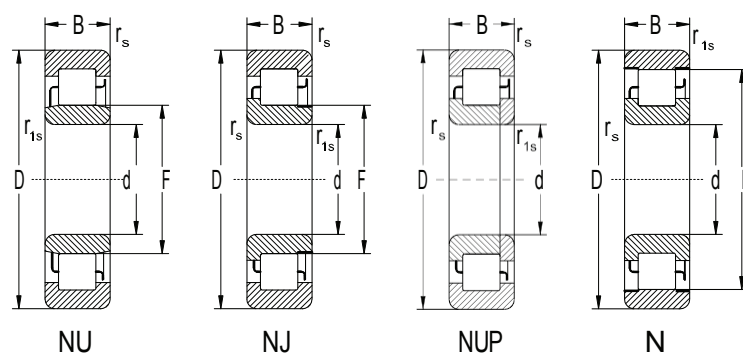
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 232 ECM	160	290	48	3.0	195.0	585.0	680.0	72.00	2400	2600	174.0	276.0	2.5	14.400
NJ 232 ECML	160	290	48	3.0	195.0	585.0	680.0	72.00	1550	1700	174.0	276.0	2.5	14.400
NUP 232 ECM	160	290	48	3.0	195.0	585.0	680.0	72.00	2400	2600	174.0	276.0	2.5	14.800
NUP 232 ECML	160	290	48	3.0	195.0	585.0	680.0	72.00	1550	1700	174.0	276.0	2.5	14.800
N 232 ECM	160	290	48	3.0	259.0	585.0	680.0	72.00	2400	2600	174.0	276.0	2.5	14.000
NU 232 ECMA	160	290	80	3.0	193.0	930.0	1200.00	129.00	2400	3600	174.0	276.0	2.5	24.300
NJ 232 ECMA	160	290	80	3.0	193.0	930.0	1200.00	129.00	2400	3600	174.0	276.0	2.5	24.800
NU 322 ECM	160	340	68	4.0	204.0	1000.0	1080.0	112.00	2000	2400	177.0	323.0	3.0	32.000
NU 322 ECMA	160	340	68	4.0	204.0	1000.0	1080.0	112.00	1500	1800	177.0	323.0	3.0	32.000
NJ 322 ECM	160	340	68	4.0	204.0	1000.0	1080.0	112.00	2000	2400	177.0	323.0	3.0	32.500
NJ 322 ECMA	160	340	68	4.0	204.0	1000.0	1080.0	112.00	1500	1800	177.0	323.0	3.0	32.500
NU 2332 ECMA	160	340	114	4.0	204.0	1250.0	1730.0	173.00	1800	2800	177.0	323.0	3.0	53.000
NJ 2332 ECMA	160	340	114	4.0	204.0	1250.0	1730.0	173.00	1800	2800	177.0	323.0	3.0	53.500
NU 1034 ML	170	260	42	2.1	193.0	275.0	400.0	41.50	2800	4300	180.0	250.0	2.0	8.000
NU 234 ECM	170	310	52	4.0	207.0	695.0	815.0	85.00	2200	2400	187.0	293.0	3.0	18.200
NU 234 ECMA	170	310	52	4.0	207.0	695.0	815.0	85.00	1650	1800	187.0	293.0	3.0	18.200
NJ 234 ECM	170	310	52	4.0	207.0	695.0	815.0	85.00	2200	2400	187.0	293.0	3.0	18.600
NJ 234 ECMA	170	310	52	4.0	207.0	695.0	815.0	85.00	1650	1800	187.0	293.0	3.0	18.600
NUP 234 ECM	170	310	52	4.0	207.0	695.0	815.0	85.00	2200	2400	187.0	293.0	3.0	19.000
NUP 234 ECMA	170	310	52	4.0	207.0	695.0	815.0	85.00	1650	1800	187.0	293.0	3.0	19.000
NU 2234 ECMA	170	310	86	4.0	205.0	1060.0	1340.0	140.00	2200	3200	187.0	293.0	3.0	30.000
NU 334 ECM	170	360	72	4.0	218.0	952.0	1180.0	116.00	1700	2200	187.0	343.0	3.0	37.500
NU 334 ECMA	170	360	72	4.0	218.0	952.0	1180.0	116.00	1280	1650	187.0	343.0	3.0	37.500
N 334 ECM	170	360	72	4.0	318.0	952.0	1180.0	116.00	1700	2200	187.0	343.0	3.0	38.500
NU 2334 ECMA	170	360	120	4.0	216.0	1450.0	2040.0	204.00	1700	3000	187.0	343.0	3.0	62.000
NJ 2334 ECMA	170	360	120	4.0	216.0	1450.0	2040.0	204.00	1700	3000	187.0	343.0	3.0	63.000
NU 1036 ML	180	280	46	2.1	205.0	336.0	475.0	51.00	2600	4000	190.0	270.0	2.0	10.500
NU 236 ECMA	180	320	52	4.0	217.0	720.0	850.0	88.00	2200	3200	197.0	303.0	3.0	19.000
NU 236 ECM	180	320	52	4.0	217.0	720.0	850.0	88.00	2850	4150	197.0	303.0	3.0	19.000



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NJ 236 ECMA	180	320	52	4.0	217.0	720.0	850.0	88.00	2200	3200	197.0	303.0	3.0	19.300
NUP 236 ECMA	180	320	52	4.0	217.0	720.0	850.0	88.00	2200	3200	197.0	303.0	3.0	19.800
NU 2236 ECMA	180	320	86	4.0	215.0	1100.0	1430.0	146.00	2200	3200	197.0	303.0	3.0	31.500
NU 2236 ECM	180	320	86	4.0	215.0	1100.0	1430.0	146.00	2850	4150	197.0	303.0	3.0	31.500
NJ 2236 ECMA	180	320	86	4.0	215.0	1100.0	1430.0	146.00	2200	3200	197.0	303.0	3.0	32.000
NJ 2236 ECM	180	320	86	4.0	215.0	1100.0	1430.0	146.00	2850	4150	197.0	303.0	3.0	32.000
NU 336 ECM	180	380	75	4.0	231.0	1020.0	1290.0	125.00	1600	2200	197.0	363.0	3.0	44.000
NU 2336 ECMA	180	380	126	4.0	227.0	1610.0	2240.0	216.00	1600	2800	197.0	363.0	3.0	71.500
NU 1038 ML	190	290	46	2.1	215.0	347.0	500.0	53.00	2600	3800	200.0	280.0	2.0	11.000
NU 238 ECMA	190	340	55	4.0	230.0	800.0	965.0	98.00	2000	3000	207.0	323.0	3.0	24.000
NU 238 ECM	190	340	55	4.0	230.0	800.0	965.0	98.00	2600	3900	207.0	323.0	3.0	24.000
NJ 238 ECMA	190	340	55	4.0	230.0	800.0	965.0	98.00	2000	3000	207.0	323.0	3.0	24.500
NJ 238 ECM	190	340	55	4.0	230.0	800.0	965.0	98.00	2600	3900	207.0	323.0	3.0	24.500
NUP 238 ECMA	190	340	55	4.0	230.0	800.0	965.0	98.00	2000	3000	207.0	323.0	3.0	25.000
NUP 238 ECM	190	340	55	4.0	230.0	800.0	965.0	98.00	2600	3900	207.0	323.0	3.0	25.000
NU 2238 ECMA	190	340	92	4.0	228.0	1220.0	1600.0	160.00	2000	3000	207.0	323.0	3.0	39.000
NU 2238 ECM	190	340	92	4.0	228.0	1220.0	1600.0	160.00	2600	3900	207.0	323.0	3.0	39.000
NU 338 ECM	190	400	78	5.0	245.0	1140.0	1500.0	143.00	1500	2000	210.0	380.0	4.0	50.000
NU 2338 ECMA	190	400	132	5.0	240.0	1830.0	2550.0	236.00	1500	2600	210.0	380.0	4.0	82.500
NU 1040 MA	200	310	51	2.1	229.0	380.0	570.0	58.50	2400	3000	210.0	299.0	2.0	14.500
NU 240 ECMA	200	360	58	4.0	243.0	850.0	1020.0	100.00	1900	2800	217.0	343.0	3.0	28.500
NU 240 ECM	200	360	58	4.0	243.0	850.0	1020.0	100.00	2500	3650	217.0	343.0	3.0	28.500
NJ 240 ECMA	200	360	58	4.0	243.0	850.0	1020.0	100.00	1900	2800	217.0	343.0	3.0	29.000
NJ 240 ECM	200	360	58	4.0	243.0	850.0	1020.0	100.00	2500	3650	217.0	343.0	3.0	29.000
NUP 240 ECMA	200	360	58	4.0	243.0	850.0	1020.0	100.00	1900	2800	217.0	343.0	3.0	29.500
NUP 240 ECM	200	360	58	4.0	243.0	850.0	1020.0	100.00	2500	3650	217.0	343.0	3.0	29.500
NU 2240 ECMA	200	360	98	4.0	241.0	1370.0	1800.0	180.00	1900	2800	217.0	343.0	3.0	46.000
NU 340 ECMA	200	420	80	5.0	258.0	1230.0	1630.0	150.00	1400	2400	220.0	400.0	4.0	57.500
NU 2340 ECMA	200	420	138	5.0	253.0	1980.0	2800.0	255.00	1400	2400	220.0	400.0	4.0	96.500



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
NJ 2340 ECMA	200	420	138	5.0	253.0	1980.0	2800.0	255.00	1400	2400	220.0	400.0	4.0	97.000
NU 1044 MA	220	340	56	3.0	250.0	495.0	735.0	73.50	2200	2800	233.0	327.0	2.5	18.500
NU 244 ECMA	220	400	65	4.0	268.0	1060.0	1290.0	125.00	1600	2400	237.0	383.0	3.0	38.500
NU 244 ECM	220	400	65	4.0	268.0	1060.0	1290.0	125.00	2100	3150	237.0	383.0	3.0	38.500
NJ 244 ECMA	220	400	65	4.0	268.0	1060.0	1290.0	125.00	1600	2400	237.0	383.0	3.0	39.000
NJ 244 ECM	220	400	65	4.0	268.0	1060.0	1290.0	125.00	2100	3150	237.0	383.0	3.0	39.000
NUP 244 ECMA	220	400	65	4.0	268.0	1060.0	1290.0	125.00	1600	2400	237.0	383.0	3.0	39.500
NUP 244 ECM	220	400	65	4.0	268.0	1060.0	1290.0	125.00	2100	3150	237.0	383.0	3.0	39.500
NU 2244 ECMA	220	400	108	4.0	259.0	1570.0	2280.0	212.00	1600	2400	237.0	383.0	3.0	62.500
NU 344 M	220	460	88	5.0	284.0	1210.0	1630.0	150.00	1500	1700	240.0	440.0	4.0	72.500
NJ 344 M	220	460	88	5.0	284.0	1210.0	1630.0	150.00	1500	1700	240.0	440.0	4.0	73.500
NU 2344 ECMA	220	460	145	5.0	277.0	2380.0	3450.0	310.00	1300	2200	240.0	440.0	4.0	120.000
NU 1048 MA	240	360	56	3.0	270.0	523.0	800.0	78.00	2000	2600	253.0	347.0	2.5	20.000
NU 248 MA	240	440	72	4.0	295.0	952.0	1370.0	129.00	1600	2200	257.0	423.0	3.0	51.500
NJ 248 MA	240	440	72	4.0	295.0	952.0	1370.0	129.00	1600	2200	257.0	423.0	3.0	52.500
NUP 248 MA	240	440	72	4.0	295.0	952.0	1370.0	129.00	1600	2200	257.0	423.0	3.0	53.500
NU 2248 MA	240	440	120	4.0	295.0	1450.0	2360.0	216.00	1500	2200	257.0	423.0	3.0	84.000
NJ 2248 MA	240	440	120	4.0	295.0	1450.0	2360.0	216.00	1500	2200	257.0	423.0	3.0	85.000
NU 348 M	240	500	95	5.0	310.0	1450.0	2000.0	180.00	1300	1600	260.0	480.0	4.0	94.500
NJ 348 M	240	500	95	5.0	310.0	1450.0	2000.0	180.00	1300	1600	260.0	480.0	4.0	98.500
NU 2348 ECMA	240	500	155	5.0	299.0	2600.0	3650.0	320.00	1200	2000	260.0	480.0	4.0	155.00
NU 1052 MA	260	400	65	4.0	296.0	627.0	965.0	96.50	1800	2400	276.0	384.0	3.0	29.50
NU 252 MA	260	480	80	5.0	320.0	1170.0	1700.0	156.00	1400	2000	280.0	460.0	4.0	68.50
NJ 252 MA	260	480	80	5.0	320.0	1170.0	1700.0	156.00	1400	2000	280.0	460.0	4.0	70.00
NUP 252 MA	260	480	80	5.0	320.0	1170.0	1700.0	156.00	1400	2000	280.0	460.0	4.0	72.00
NU 2252 MA	260	480	130	5.0	320.0	1790.0	3000.0	265.00	1300	2000	280.0	460.0	4.0	110.00
NJ 2252 MA	260	480	130	5.0	320.0	1790.0	3000.0	265.00	1300	2000	280.0	460.0	4.0	112.00
NU 352 ECMA	260	540	102	6.0	337.0	1940.0	2700.0	236.00	1100	1800	286.0	516.0	5.0	125.00
NU 1056 MA	280	420	65	4.0	316.0	660.0	1060.0	102.00	1700	2200	295.0	405.0	3.0	31.50



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r min	E mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
NU 256 MA	280	500	80	5.0	340.0	1140.0	1700.0	153.0	1400	1900	300.0	480.0	4.0	71.50
NJ 256 MA	280	500	80	5.0	340.0	1140.0	1700.0	153.0	1400	1900	300.0	480.0	4.0	73.00
NU 2256 ECMA	280	500	130	5.0	327.0	2200.0	3250.0	285.0	1200	1900	300.0	480.0	4.0	115.00
NU 2356 MA	280	580	175	6.0	362.0	2700.0	4300.0	365.0	1000	1700	306.0	554.0	5.0	230.00
NU 1060 MA	300	460	74	4.0	340.0	858.0	1370.0	129.0	1500	2000	317.0	443.0	3.0	46.50
NJ 1060 MA	300	460	74	4.0	340.0	858.0	1370.0	129.0	1500	2000	317.0	443.0	3.0	47.00
NU 260 MA	300	540	85	5.0	364.0	1420.0	2120.0	183.0	1300	1800	320.0	520.0	4.0	89.50
NU 2260 MA	300	540	140	5.0	364.0	2090.0	3450.0	300.0	1200	1800	320.0	520.0	4.0	145.0
NU 1064 MA	320	480	74	4.0	360.0	880.0	1430.0	132.0	1400	1900	335.0	465.0	3.0	48.50
NJ 1064 MA	320	480	74	4.0	360.0	880.0	1430.0	132.0	1400	1900	335.0	465.0	3.0	49.00
NU 264 MA	320	580	92	5.0	390.0	1610.0	2450.0	204.0	1200	1600	340.0	560.0	4.0	115.00
NU 2266 ECMA	320	580	150	5.0	390.0	3190.0	5000.0	415.0	1000	1600	340.0	560.0	4.0	180.00
NU 1068 MA	340	520	82	5.0	385.0	1080.0	1760.0	156.0	1300	1700	358.0	502.0	4.0	65.00
NJ 1068 MA	340	520	82	5.0	385.0	1080.0	1760.0	156.0	1300	1700	358.0	502.0	4.0	68.00
NU 2268 MA	340	620	165	6.0	416.0	2640.0	4500.0	365.0	1000	1500	366.0	594.0	5.0	220.00
NU 1072 MA	360	540	82	5.0	405.0	1100.0	1830.0	163.0	1300	1600	378.0	522.0	4.0	67.50
NU 2272 MA	360	650	170	6.0	437.0	2920.0	4900.0	400.0	950	1400	386.0	624.0	5.0	250.00
NU 1076 MA	380	560	82	5.0	425.0	1140.0	1930.0	170.0	1200	1600	398.0	542.0	4.0	71.00
NJ 1076 MA	380	560	82	5.0	425.0	1140.0	1930.0	170.0	1200	1600	398.0	542.0	4.0	73.00
NU 2276 MA	380	680	175	6.0	451.0	3140.0	5500.0	440.0	900	1600	406.0	654.0	5.0	275.00
NU 1080 MA	400	600	90	5.0	450.0	1380.0	2320.0	204.0	1100	1500	418.0	582.0	4.0	92.50
NU 1084 MA	420	620	90	5.0	470.0	1420.0	2450.0	212.0	1100	1400	438.0	602.0	4.0	96.00
NU 1088 MA	440	650	94	6.0	493.0	1510.0	2650.0	212.0	1000	1300	463.0	627.0	5.0	105.00
NU 1092 MA	460	680	100	6.0	516.0	1650.0	2850.0	224.0	950	1200	483.0	657.0	5.0	115.00
NU 1292 MA	460	830	165	7.5	554.0	4180.0	6800.0	510.0	750	1100	492.0	798.0	6.0	415.00
NU 2292 MA	460	830	212	7.5	554.0	5120.0	8650.0	655.0	700	1100	492.0	798.0	6.0	530.00
NU 1096 MA	480	700	100	6.0	536.0	1680.0	3000.0	232.0	900	1200	503.0	677.0	5.0	130.00



Cuscinetti a Rulli Conici
Tapered Roller Bearings

I cuscinetti a rulli conici K.S.B. sono prodotti in varie esecuzioni per adattarsi alle molteplici applicazioni possibili. Nel catalogo troverete le versioni più comuni cioè:

- Cuscinetti ad una corona di rulli conici

- Cuscinetti ad una corona di rulli conici appaiati

Per le versioni a due e quattro corone di rulli conici che sono principalmente utilizzati per i laminatoi e che K.S.B. produce siete pregati di rivolgervi al nostro servizio tecnico.

Forma Costruttiva

I cuscinetti a rulli conici hanno sull'anello interno e su quello esterno piste coniche a contatto delle quali rotolano rulli conici. La forma costruttiva dei cuscinetti a rulli conici li rende particolarmente adatti per i carichi combinati sia radiali che assiali. La loro capacità di carico è in larga misura determinata dall'angolo di contatto, quanto più grande è tanto maggiore è la capacità di carico assiale. I cuscinetti a rulli conici sono generalmente scomponibili, ossia il cono costituito dall'anello interno e dal gruppo rulli con la gabbia può essere montato separatamente dalla coppa ossia dall'anello esterno.

Dimensioni

Le dimensioni dei cuscinetti a rulli conici ad una corona di rulli elencati di seguito sono conformi alla norma ISO 355-1977 salvo quelli che recano il prefisso J nell'appellativo che sono conformi alla norma ANSI-ABMA 19.1-1987.

Tolleranze

Gli anelli interni con relativo gruppo rulli e gabbia e gli anelli esterni dei cuscinetti a rulli conici che hanno lo stesso appellativo sono intercambiabili. La tolleranza sulla larghezza totale (distanza fra le facciate di appoggio) non viene superata se si scambiano fra di loro le coppe e i coni.

Gioco interno

Il gioco interno dei cuscinetti a rulli conici si ottiene solo dopo il montaggio e viene determinato dalla registrazione di un cuscinetto rispetto ad un secondo, che ha il compito di assicurare il vincolo in senso opposto.

Registrazione e rodaggio

Quando i cuscinetti a rulli conici devono essere registrati l'uno contro l'altro è necessario farli ruotare affinché i rulli possano assumere a posizione corretta. Durante le prime ore di funzionamento i cuscinetti a rulli conici normalmente presentano un momento di attrito relativamente elevato che poi si riduce dopo un certo periodo di funzionamento. Nel corso di questo periodo la temperatura dei cuscinetti cresce rapidamente a causa dell'attrito iniziale, per poi ridursi ad un livello di equilibrio una volta terminata la fase stessa. Questa fase di rodaggio si riduce notevolmente con i cuscinetti in esecuzione "Q", in questo tipo di cuscinetti l'attrito iniziale è molto basso e pertanto l'aumento di temperatura è pressoché trascurabile.

Gabbie

I cuscinetti ad una corona di rulli conici possono essere muniti di una delle seguenti gabbie:

- Gabbia stampata in lamiera d'acciaio a feritoie centrata sui rulli, nessun suffisso nell'appellativo oppure suffissi J1, J2 o J3.

- Gabbia stampata ad iniezione in poliammide 6,6 rinforzata con fibre di vetro, a feritoie, centrata sui rulli identificabile con il suffisso TN9.

I cuscinetti con gabbia in poliammide 6,6 si possono impiegare fino a +120°C. Nei sistemi che devono funzionare in modo continuo a temperature elevate o in condizioni difficili si consiglia l'impiego di cuscinetti con gabbia stampata in acciaio.

Cuscinetti appaiati

Nei sistemi in cui la capacità di carico di un solo cuscinetto a rulli conici non è sufficiente oppure quando l'albero deve essere vincolato assialmente in entrambe le direzioni con un determinato gioco assiale positivo o negativo si possono impiegare i cuscinetti ad una corona di rulli conici disposti come coppie appaiate

The tapered roller bearings K.S.B. are manufactured in various designs to suit a variety of applications possible. In the catalog you will find the most common versions namely:

- Bearings Single row tapered roller bearings*

- Bearings Single row tapered roller bearings paired*

For versions with two and four row tapered roller bearings which are mainly used for rolling mills and KSB produces, please contact our customer service.

Constructive form

The tapered roller bearings have on the 'inner ring and the outer tracks in contact with the conical tapered rollers which roll. The design of tapered roller bearings makes them particularly suitable for combined radial and axial loads. Their ability to load is largely determined by the contact angle, the larger the greater the axial load capacity. The tapered roller bearings are generally separable, ie the cone formed by 'inner ring and roller assembly with the cage can be mounted separately from the cup ie from 'outer ring.

Dimensions

The size of the tapered roller bearings single row of rollers listed below are in accordance with ISO 355-1977 except those that bear the prefix J in the 'name that are in accordance with ANSI-ABMA 19.1-1987.

Tolerances

The inner rings with roller and its group cage and the outer rings of tapered roller bearings that have the same name are interchangeable. The tolerance on total width (distance between the facades of support) is not exceeded if you swap between them all the cups and cones. internal

Clearance

The internal clearance of tapered roller bearings is obtained only after the installation and is determined by the recording of a bearing with respect to a second, which has the task of ensuring the constraint in the opposite direction.

Recording and running

When the tapered roller bearings must be registered with the one against the other it is necessary to rotate them so that the rollers can assume a correct position. During the first hours of operation, the tapered roller bearings normally have a time of relatively high friction which then decreases after a certain period of operation. During this period the temperature of the bearings increases rapidly due to friction initial and then fall to a level of equilibrium once the same phase. This phase of running is reduced significantly with the bearings running "Q", in this type of bearing the initial friction is very low and therefore the increase in temperature is almost negligible.

Cages

The bearings single row tapered roller bearings can be equipped with one of the following cages:

- Molded cage sheet steel slotted roller centered, no suffix or suffixes J1, J2 or J3.*

- Injection molded cage of polyamide 6.6 reinforced with glass fibers, grilles, roller centered identified with the suffix TN9.*

Bearings with a cage of polyamide 6.6 can be used up to +120 °C. In systems that must operate continuously at high temperatures or in harsh environments we recommend the use of bearings with molded cage of steel.

Matched bearing

In systems in which the load capacity of a single tapered roller bearing is not sufficient or when the tree needs to be constrained axially in both directions with a given positive or negative axial play can employ the row bearings of tapered rollers arranged as a matched pair

Appellativi supplementari

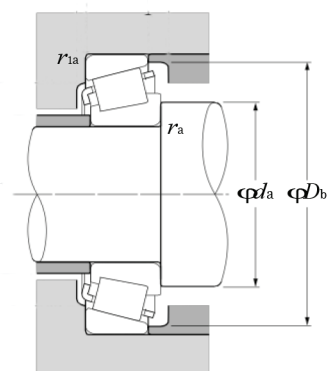
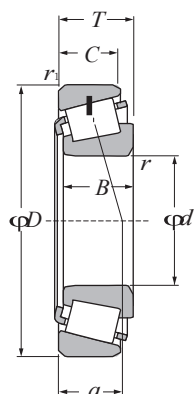
I suffissi nell'appellativo sono utilizzati per identificare alcune caratteristiche dei cuscinetti a rulli conici e sono i seguenti:

- **B** - Angolo di contatto maggiore di quello dell'esecuzione standard.
- **J** - Gabbia stampata in lamiera d'acciaio del tipo a feritoie centrata sui rulli. La cifra che segue (esempio J2) indica un'esecuzione diversa della gabbia.
- **P6** - Precisione dimensionale e di rotazione secondo la classe di tolleranza ISO 6, migliore della normale.
- **Q** - Geometria dei contatti e finitura delle superfici ottinizzate.
- **R** - Anello esterno flangiato.
- **TN9** - Gabbia stampata ad iniezione di poliammide 6,6 rinforzata con fibre di vetro a feritoie e centrata sui rulli.
- **W** - Tolleranza modificata sulla larghezza dell'anello +0,05/0 mm.
- **X** - Dimensioni d'ingombro modificate per essere conformi alle norme ISO.
- **T** - Seguita da una cifra identifica la larghezza totale della coppia di cuscinetti disposti a "0" o in tandem.
- **DB** - Cuscinetti appaiati disposti a "0". La combinazione di cifre che segue DB identifica l'esecuzione dei distanziali intermedi.
- **DF** - Cuscinetti appaiati disposti a "X". la combinazione di cifre che segue DF identifica l'esecuzione del distanziale intermedio.
- **DT** - Cuscinetti appaiati disposti in tandem. La combinazione di cifre che segue DT identifica l'esecuzione dei distanziali intermedi.

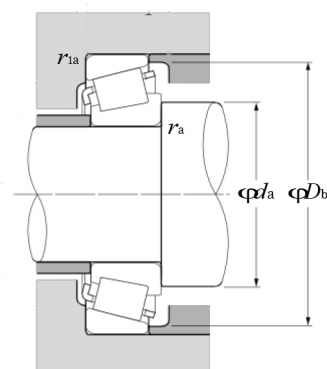
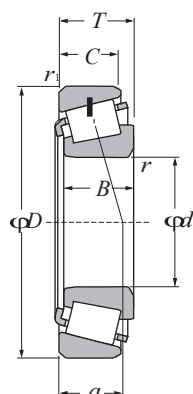
Supplementary designations

The suffixes in the designation are used to identify some characteristics of the tapered roller bearings and are the following:

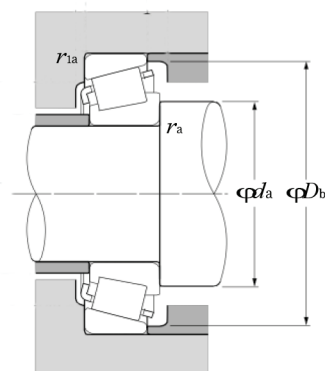
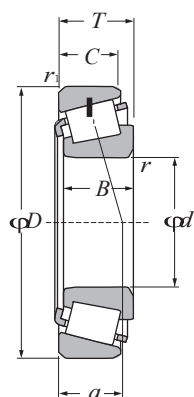
- **B** - *Contact angle greater than the standard version.*
- **J** - *molded cage made of sheet steel of the type with slots centered on the rollers. The figure below (eg J2) indicates different execution of the cage.*
- **P6** - *Dimensional and running accuracy according to ISO tolerance class 6, better than normal.*
- **Q** - *Geometry of contact and surface ottinizzate.*
- **R** - *flanged outer ring.*
- **TN9** - *Injection molded cage of polyamide 6,6 rinforzata with glass fibers and slits centered on the rollers.*
- **W** - *Tolerance changed the width of the ring +0,05 / 0 mm.*
- **X** - *Dimensions modified to comply with ISO standards.*
- **T** - *Followed by a number refers to the total width of the pair of bearings arranged back to "0" or in tandem.*
- **DB** - *Bearings paired willing to "0". The combination of digits following DB identifies the execution of the intermediate spacers.*
- **DF** - *Bearings paired willing to "X". the combination of digits that identifies DF follows the execution of the intermediate ring.*
- **DT** - *paired bearings arranged in tandem. The combination of digits that identifies DT follows the execution of the intermediate spacers.*



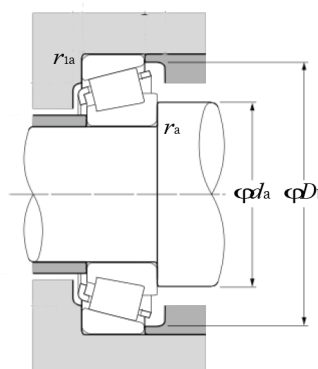
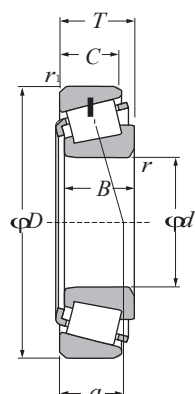
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r min	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
30302 J2	15	42	14.25	1.0	13	11	9	22.4	20.0	2.08	13000	18000	22	38	1.0	0.095
30203 J2	17	40	13.25	1.0	12	11	10	19.0	18.6	1.83	13000	18000	23	37	1.0	0.075
30303 J2	17	47	15.25	1.0	14	12	10	28.1	25.0	2.75	12000	16000	25	42	1.0	0.130
32303 J2/Q	17	47	20.25	1.0	19	26	12	34.7	33.5	3.65	11000	16000	24	43	1.0	0.170
32004 X/Q	20	42	15.00	0.6	15	12	10	24.2	27.0	2.70	12000	16000	25	39	0.6	0.097
30204 J2/Q	20	47	15.25	1.0	14	12	11	27.5	28.0	3.00	11000	15000	27	43	1.0	0.120
30304 J2/Q	20	52	16.25	1.5	15	13	11	34.1	32.5	3.60	11000	14000	28	47	1.5	0.170
32304 J2/Q	20	52	22.25	1.5	21	18	14	44.0	45.5	5.00	10000	14000	27	47	1.5	0.230
320/22 X	22	44	15.00	0.6	15	11.5	11	25.1	29.0	2.85	11000	15000	27	41	0.6	0.100
32005 X/Q	25	47	15.00	0.6	15	11.5	11	27.0	32.5	3.25	11000	14000	30	44	0.6	0.110
30205 J2/Q	25	52	16.25	1.0	15	13	12	30.8	33.5	3.45	10000	13000	31	48	1.0	0.150
33205 Q	25	52	22.00	1.0	22	18	14	54.0	56.0	6.00	10000	13000	30	49	1.0	0.230
30305 J2	25	62	18.25	1.5	17	15	13	44.6	43.0	4.75	9000	12000	34	57	1.5	0.260
31305 J2	25	62	18.25	1.5	17	13	20	38.0	40.0	4.40	7500	11000	34	59	1.5	0.260
32305 J2	25	62	25.25	1.5	24	20	15	60.5	63.0	7.10	8000	12000	33	57	1.5	0.360
320/28 X/Q	28	52	16.00	1.0	16	12	12	36.5	38.0	4.00	10000	13000	34	49	1.0	0.150
302/28 J2	28	58	17.25	1.0	16	14	13	38.0	41.5	4.40	9000	12000	35	54	1.0	0.250
32006 X/Q	30	55	17.00	1.0	17	13	13	35.8	44.0	4.55	9000	12000	35	52	1.0	0.170
30206 J2/Q	30	62	17.25	1.0	16	14	14	40.2	44.0	4.80	8500	11000	38	56	1.0	0.230
32206 J2/Q	30	62	21.25	1.0	20	17	15	50.1	57.0	6.30	8500	11000	37	58	1.0	0.280
33206 Q	30	62	25.00	1.0	25	19.5	16	64.4	76.5	8.50	7500	11000	36	59	1.0	0.370
30306 J2/Q	30	72	20.75	1.5	19	16	15	56.1	56.0	6.40	7500	10000	41	66	1.5	0.390
31306 J2/Q	30	72	20.75	1.5	19	14	22	47.3	50.0	5.70	6700	9500	40	68	1.5	0.390
32306 J2/Q	30	72	28.75	1.5	27	23	18	76.5	85.0	9.65	7000	10000	39	66	1.5	0.550
320/32 X/Q	32	53	17.00	1.0	17	13	14	36.9	46.5	4.80	8500	11000	38	55	1.0	0.190
32007 X/Q	35	62	18.00	1.0	18	14	15	49.0	54.0	5.85	8500	11000	41	59	1.0	0.220
32007 J2/Q	35	62	18.00	1.0	18	15	16	37.4	49.0	5.20	8000	11000	41	59	1.0	0.220
30207 J2/Q	35	72	18.25	1.5	17	15	15	51.2	56.0	6.10	7000	9500	44	67	1.5	0.320
32207 J2/Q	35	72	24.25	1.5	23	19	17	66.0	78.0	8.50	7000	9500	43	67	1.5	0.430



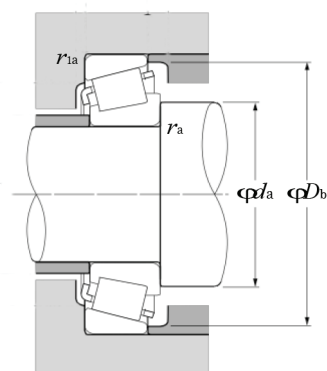
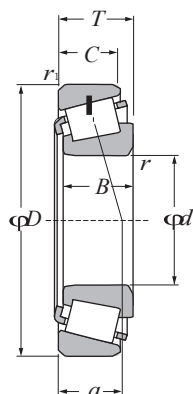
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	T mm	r min	B mm	C mm	a mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Db mm	ra mm	
33207 Q	35	72	28.00	1.5	28	22	18	84.2	106.0	11.80	6300	9500	42	68	1.5	0.56
30307 J2/Q	35	80	22.75	2.0	21	18	16	72.1	73.5	8.30	6700	9000	46	74	1.5	0.52
31307 J2/Q	35	80	22.75	2.0	21	15	25	61.6	67.0	7.8	6000	8500	45	76	1.5	0.52
32307 J2/Q	35	80	32.75	2.0	31	25	20	95.2	106.0	12.20	6300	9000	44	74	1.5	0.73
32008 X/Q	40	68	19.00	1.0	19	14.5	15	52.8	71.0	7.65	7000	9500	46	65	1.0	0.27
33108 Q	40	75	26.00	1.5	26	20.5	18	79.2	104.0	11.40	6700	9000	47	71	1.5	0.51
30208 J2/Q	40	80	19.75	1.5	18	16	16	61.6	68.0	7.65	6300	8500	49	74	1.5	0.42
32208 J2/Q	40	80	24.75	1.5	23	19	19	74.8	86.5	9.80	6300	8500	49	75	1.5	0.53
30308 J2/Q	40	90	25.25	2.0	23	20	19	85.8	95.0	10.80	6000	8000	53	82	1.5	0.72
31308 J2/Q	40	90	25.25	2.0	23	17	28	85.0	81.5	9.50	5600	7500	51	86	2.0	0.72
32308 J2/Q	40	90	35.25	2.0	33	27	23	117.0	140.0	16.00	5300	8000	51	82	2.0	1.00
32009 X/Q	45	75	20	1.0	20	15.5	16	58.3	80.0	8.80	6300	8500	52	72	1.0	0.34
33109 Q	45	80	26	1.5	26	20.5	19	96.5	114.0	12.90	6700	8000	52	77	1.5	0.56
30209 J2/Q	45	85	20.75	1.5	19	16	18	66.0	76.5	8.65	6000	8000	54	80	1.5	0.48
32209 J2/Q	45	85	24.75	1.5	23	19	20	91.5	98.0	11.00	6300	8000	54	80	1.5	0.58
33209 Q	45	85	32	1.5	32	25	22	108.0	143.0	16.30	5300	7500	52	81	1.5	0.82
30309 J2/Q	45	100	27.25	2.0	25	22	21	108.0	120.0	14.30	5300	7000	59	92	1.5	0.97
31309 J2/Q	45	100	27.25	2.0	25	18	31	106.0	102.0	12.50	5000	6700	59	95	1.5	0.95
32309 J2/Q	45	100	38.25	2.0	36	30	25	140.0	170.0	20.40	4800	7000	57	93	1.5	1.35
32010 X/Q	50	80	20	1.0	20	15.5	18	60.5	88.0	9.65	6000	8000	57	77	1.0	0.37
33010 Q	50	80	24	1.0	24	19	17	69.3	102.0	11.40	6000	8000	56	76	1.0	0.45
33110 Q	50	85	26	1.5	26	20	20	85.8	122.0	13.40	5600	7500	57	82	1.5	0.59
30210 J2/Q	50	90	21.75	1.5	20	17	19	76.5	91.5	10.40	5600	7500	58	85	1.5	0.54
32210 J2/Q	50	90	24.75	1.5	23	19	21	82.5	100.0	11.40	5600	7500	58	85	1.5	0.61
33210 Q	50	90	32	1.5	32	24.5	23	114.0	160.0	18.30	5000	7000	57	87	1.5	0.90
30310 J2/Q	50	110	29.25	2.5	27	23	23	143.0	140.0	16.60	5300	6300	65	102	2.0	1.25
31310 J2/Q	50	110	29.25	2.5	27	19	34	122.0	120.0	14.30	4500	6000	62	104	2.0	1.20
32310 J2/Q	50	110	42.25	2.5	40	33	27	172.0	212.0	24.00	4300	6300	63	102	2.0	1.80
32011 X/Q	55	90	23	1.5	23	17.5	20	80.9	116.0	12.90	5300	7000	63	86	1.5	0.55



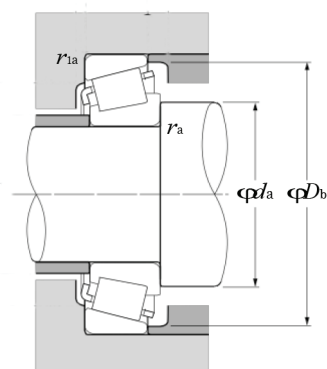
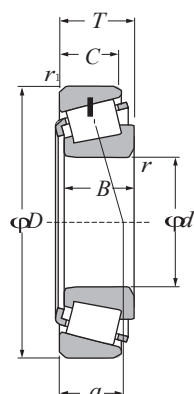
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r min	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
33011 Q	55	90	27	1.5	27	21	19	104.0	137.0	15.30	5600	7000	63	86	1.5	0.67
33111 Q	55	95	30	1.5	30	23	22	110.0	156.0	17.60	5000	6700	63	91	1.5	0.86
30211 J2/Q	55	100	22.75	2.0	21	18	20	104.0	106.0	12.00	5300	6700	64	94	1.5	0.70
32211 J2/Q	55	100	26.75	2.0	25	21	22	106.0	129.0	15.00	5000	6700	64	95	1.5	0.83
33211 Q	55	100	35	2.0	35	27	25	138.0	190.0	21.60	4500	6300	63	96	1.5	1.20
30311 J2/Q	55	120	31.5	2.5	29	25	24	166.0	163.0	19.30	4800	5600	71	111	2.0	1.55
31311 J2/Q	55	120	31.5	2.5	29	21	37	121.0	137.0	16.60	3800	5600	68	113	2.0	1.55
32311 J2	55	120	45.5	2.5	43	35	29	198.0	250.0	28.50	4000	5600	68	111	2.0	2.30
32012 X/Q	60	95	23	1.5	23	17.5	21	95.0	122.0	13.40	5300	6700	67	91	1.5	0.59
33012 Q	60	95	27	1.5	27	21	20	106.0	143.0	16.00	5300	6700	67	90	1.5	0.71
33112 Q	60	100	30	1.5	30	23	23	117.0	170.0	19.60	4800	6300	67	96	1.5	0.92
30212 J2/Q	60	110	23.75	2.0	22	19	22	112.0	114.0	13.20	5000	6000	70	103	1.5	0.88
32212 J2/Q	60	110	29.75	2.0	28	24	24	125.0	160.0	18.60	4500	6000	69	104	1.5	1.15
33212 Q	60	110	38	2.0	38	29	27	168.0	236.0	26.50	4000	6000	69	105	1.5	1.60
30312 J2/Q	60	130	33.5	3.0	31	26	26	168.0	196.0	23.60	4000	5300	77	120	2.0	1.95
31312 J2/Q	60	130	33.5	3.0	31	22	39	145.0	166.0	20.40	3600	5300	74	123	2.0	1.90
32312 J2/Q	60	130	48.5	3.0	46	37	31	229.0	290.0	34.00	3600	5300	74	120	2.0	2.85
32013 X/Q	65	100	23	1.5	23	17.5	22	96.5	127.0	14.00	5000	6000	72	97	1.5	0.63
33013 Q	65	100	27	1.5	27	21	21	110.0	153.0	17.3	5000	6300	72	96	1.5	0.78
33113 Q	65	110	34	1.5	34	26.5	26	142.0	208.0	24.00	4300	5600	74	106	1.5	1.30
30213 J2/Q	65	120	24.75	2.0	23	20	23	132.0	134.0	16.30	4500	5600	78	113	1.5	1.15
32213 J2/Q	65	120	32.75	2.0	31	27	27	151.0	193.0	22.80	4000	5600	76	115	1.5	1.50
33213 Q	65	120	41	2.0	41	32	29	194.0	270.0	30.5	3800	5300	75	115	1.5	2.05
30313 J2/Q	65	140	36	3.0	33	28	28	194.0	228.0	27.50	3600	4800	84	130	2.0	2.40
31313 J2/Q	65	140	36	3.0	33	23	42	165.0	193.0	23.60	3200	4800	80	132	2.0	2.35
32313 J2/Q	65	140	51	3.0	48	39	33	264.0	335.0	40.00	3400	4800	80	130	2.0	3.45
32014 X/Q	70	110	25	1.5	25	19	23	101.0	153.0	17.30	4300	5600	78	105	1.5	0.84
33014	70	110	31	1.5	31	25.5	23	130.0	196.0	22.80	4300	5600	78	105	1.5	1.10
33114 Q	70	120	37	2.0	37	29	28	172.0	250.0	30.00	4000	5300	80	115	1.5	1.70



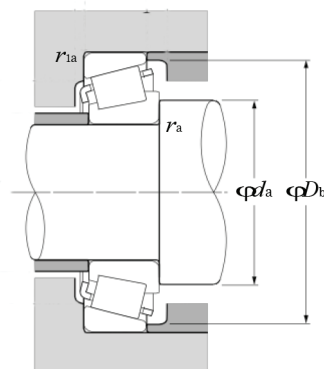
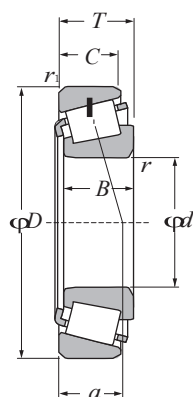
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r mm	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
30214 J2/Q	70	125	26.25	2.0	24	21	25	125.0	156.0	18.00	4000	5300	82	118	1.5	1.25
32214 J2/Q	70	125	33.25	2.0	31	27	28	157.0	208.0	24.50	3800	5300	80	119	1.5	1.60
33214 Q	70	125	41	2.0	41	32	30	201.0	285.0	32.50	3600	5000	79	120	1.5	2.10
30314 J2/Q	70	150	38	3.0	35	30	29	220.0	260.0	31.00	3400	4500	90	140	2.0	2.90
31314 J2/Q	70	150	38	3.0	35	25	45	187.0	220.0	27.00	3000	4500	85	141	2.0	2.95
32314 J2/Q	70	150	54	3.0	51	42	36	297.0	380.0	45.00	3200	4500	86	140	2.0	4.30
32015 X/Q	75	115	25	1.5	25	19	25	106.0	163.0	18.60	4000	5300	83	110	1.5	0.90
33015 Q	75	115	31	1.5	31	25.5	23	134.0	228.0	26.00	4000	5300	84	110	1.5	1.15
33115 Q	75	125	37	2.0	37	29	29	176.0	265.0	31.50	3800	5000	84	120	1.5	1.80
30215 J2/Q	75	130	27.25	2.0	25	22	27	140.0	176.0	20.40	3800	5000	86	124	1.5	1.40
32215 J2/Q	75	130	33.25	2.0	31	27	29	161.0	212.0	24.50	3600	5000	85	125	1.5	1.70
33215 Q	75	130	41	2.0	41	31	32	209.0	300.0	34.00	3400	4800	84	125	1.5	2.25
30315 J2/Q	75	160	40	3.0	37	31	31	246.0	290.0	34.00	3200	4300	96	149	2.0	3.45
31315 J2/Q	75	160	40	3.0	37	26	48	209.0	245.0	29.00	2800	4300	91	151	2.0	3.50
32315 J2	75	160	58	3.0	55	45	38	336.0	440.0	51.00	3000	4300	92	149	2.0	5.20
32016 X/Q	80	125	29	1.5	29	22	27	138.0	216.0	24.50	3600	5000	90	120	1.5	1.30
33016 Q	80	125	36	1.5	36	29.5	26	168.0	285.0	32.00	3600	5000	90	119	1.5	1.65
33116 Q	80	130	37	2.0	37	29	30	179.0	280.0	32.50	3600	4800	89	126	1.5	1.90
30216 J2/Q	80	140	28.25	2.5	26	22	28	151.0	183.0	21.20	3400	4800	92	132	2.0	1.60
32216 J2/Q	80	140	35.25	2.5	33	28	30	187	245.0	28.50	3400	4500	91	134	2.0	2.05
33216 Q	80	140	46	2.5	46	35	35	251.0	375.0	41.50	3200	4500	89	135	2.0	2.90
30316 J2	80	170	42.5	3.0	39	33	33	270.0	320.0	38.00	3000	4300	102	159	2.0	4.10
31316 J2/Q	80	170	42.5	3.0	39	27	52	224.0	265.0	32.00	2800	4000	97	159	2.0	4.05
32316 J2	80	170	61.5	3.0	58	48	41	380.0	500.0	57.00	3000	4300	98	159	2.0	6.20
32017 X/Q	85	130	29	1.5	29	22	28	140.0	224.0	25.50	3400	4800	94	125	1.5	1.35
33017 Q	85	130	36	1.5	36	29.5	26	183.0	310.0	34.50	3600	4800	94	125	1.5	1.75
33117 Q	85	140	41	2.5	41	32	32	220.0	340.0	38.00	3400	4500	95	135	2.0	2.45
30217 J2/Q	85	150	30.5	2.5	28	24	30	176.0	220.0	25.50	3200	4300	97	141	2.0	2.05
32217 J2/Q	85	150	38.5	2.5	36	30	33	212.0	285.0	33.5	3200	4300	97	142	2.0	2.60



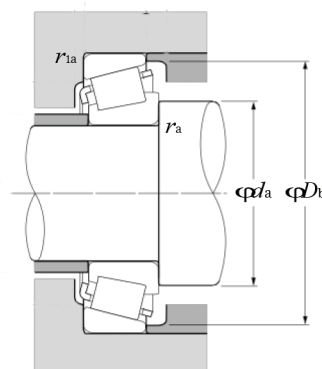
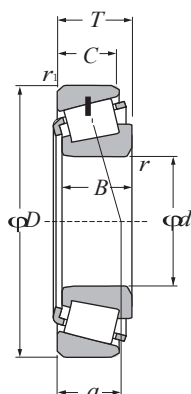
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r min	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
33217 Q	85	150	49	2.5	49	37	37	286.0	430.0	48.00	3000	4300	96	144	2.0	3.70
30317 J2	85	180	44.5	4.0	41	34	35	303.0	365.0	40.50	2800	4000	107	167	2.5	4.85
31317 J2	85	180	44.5	4.0	41	28	55	242.0	285.0	33.50	2600	3800	103	169	2.5	4.60
32317 J2	85	180	63.5	4.0	60	49	42	402.0	530.0	60.00	2800	4000	103	167	2.5	6.85
32018 X/Q	90	140	32	2.0	32	24	30	168.0	270.0	31.00	3200	4300	100	134	1.5	1.75
33018 Q	90	140	39	2.0	39	32.5	27	216.0	355.0	39.00	3200	4500	100	135	1.5	2.20
33118 Q	90	150	45	2.5	45	35	35	251.0	390.0	43.00	3000	4300	101	144	2.0	3.10
30218 J2	90	160	32.5	2.5	30	26	31	194.0	245.0	28.50	3000	4000	104	150	2.0	2.55
32218 J2/Q	90	160	42.5	2.0	40	34	36	251.0	340.0	38.00	3000	4000	102	152	2.0	3.35
30318 J2	90	190	46.5	3.0	43	36	36	330.0	400.0	44.00	2600	4000	113	176	2.5	5.65
31318 J2	90	190	46.5	4.0	43	30	57	264.0	315.0	36.50	2400	3400	109	179	2.5	5.90
32318 J2	90	190	67.5	4.0	64	53	44	457.0	610.0	67.00	2600	4000	109	177	2.5	8.40
32019 X/Q	95	145	32	2.0	32	24	31	168.0	270.0	30.50	3200	4300	105	139	1.5	1.80
33019 Q	95	145	39	2.0	39	32.5	28	220.0	375.0	40.50	3200	4300	104	138	1.5	2.30
30219 J2	95	170	34.5	3.0	32	27	33	216.0	275.0	31.50	2800	3800	110	159	2.0	3.00
32219 J2	95	170	45.5	3.0	43	37	39	281.0	390.0	43.00	2800	3800	109	161	2.0	4.05
30319	95	200	49.5	3.0	45	38	39	330.0	390.0	42.50	2600	3400	118	184	2.5	6.70
31319 J2	95	200	49.5	4.0	45	32	60	292.0	355.0	39.00	2400	3400	114	187	2.5	6.95
32319 J2	95	200	71.5	4.0	67	55	47	501.0	670.0	72.00	2400	3400	115	186	2.5	11.00
32920 Q	100	140	25	1.5	25	20	24	119.0	204.0	22.40	3200	4800	109	135	1.5	1.15
32020 X/Q	100	150	32	2.0	32	24	32	172.0	280.0	31.00	3000	4000	110	144	1.5	1.90
33020 Q	100	150	39	2.0	39	32.5	29	224.0	390.0	41.50	3000	4000	109	143	1.5	2.40
30220 J2	100	180	37	3.0	34	29	35	246.0	320.0	36.00	2800	3600	116	168	2.0	3.65
32220 J2	100	180	49	3.0	46	39	41	319.0	440.0	48.00	2600	3600	115	171	2.0	4.90
33220	100	180	63	3.0	63	48	43	429.0	655.0	71.00	2400	3600	112	172	2.0	6.95
30320 J2	100	215	51.5	4.0	47	39	40	402.0	490.0	53.00	2400	3200	127	197	2.5	8.05
32320 J2	100	215	77.5	4.0	73	60	51	572.0	780.0	83.00	2200	3000	123	200	2.5	12.50
32021 X/Q	105	160	35	2.5	35	26	34	201.0	335.0	37.50	2800	3800	116	154	2.0	2.40
33021 Q	105	160	43	2.5	43	34	31	246.0	430.0	45.50	2800	3800	117	153	2.0	3.05



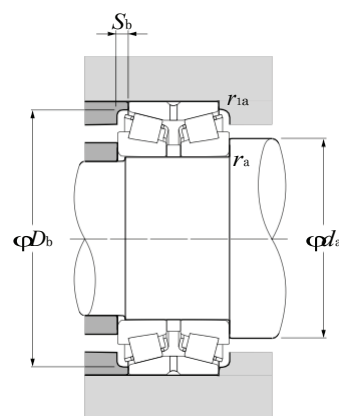
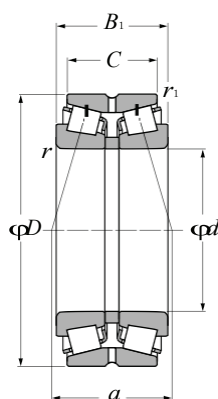
Codice Code	Dimensioni - Dimensions							Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r mm	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
30221 j2	105	190	39	3.0	36	30	37	270.0	355.0	40.00	2600	3400	123	177	2.0	4.25
32221 j2	105	190	53	3.0	50	43	44	358.0	510.0	55.00	2600	3400	120	180	2.0	6.00
32321 j2	105	225	81.5	4.0	77	63	53	605.0	815.0	85.00	2000	3000	129	209	2.5	14.50
32922 X/Q	110	150	25	1.5	25	20	26	125.0	224.0	24.00	3000	4300	118	145	1.5	1.25
32022 X/Q	110	170	38	2.5	38	29	36	233.0	390.0	42.50	2600	3600	123	163	2.0	3.05
33022	110	170	47	2.5	47	37	34	281.0	500.0	53.00	2600	3600	123	161	2.0	3.85
33122	110	180	56	2.5	56	43	44	369.0	630.0	67.00	2600	3400	121	174	2.0	5.55
30222 J2	110	200	41	3.0	38	32	39	308.0	405.0	45.00	2400	3200	129	187	2.0	5.10
32222 J2	110	200	56	3.0	53	46	46	402.0	570.0	61.00	2400	3200	127	190	2.0	7.10
30322 J2	110	240	54.5	4.0	50	42	43	473.0	585.0	62.00	2200	2800	142	220	2.5	11.00
31322 J2	110	240	63	4.0	57	38	72	457.0	585.0	62.00	1900	2800	135	224	2.5	12.00
32322	110	240	84.5	4.0	80	65	55	627.0	830.0	86.50	1900	2800	137	222	2.5	17.00
32924	120	165	29	1.5	29	23	29	165.0	305.0	32.00	2600	3800	130	160	1.5	1.80
32024 X	120	180	38	2.5	38	29	39	242.0	415.0	44.00	2400	3400	132	173	2.0	3.25
33024	120	180	48	2.5	48	38	36	292.0	540.0	56.00	2600	3400	132	171	2.0	4.20
30224 J2	120	215	43.5	3.0	40	34	43	341.0	465.0	49.00	2200	3000	141	201	2.0	6.15
32224 J2	120	215	61.5	3.0	58	50	51	468.0	695.0	72.00	2200	3000	137	204	2.0	9.15
30324 J2	120	260	59.5	4.0	55	46	47	561.0	710.0	73.50	2000	2600	153	237	2.5	14.00
31324 J2	120	260	68	4.0	62	42	78	539.0	695.0	73.50	1700	2400	145	244	2.5	15.50
32324 J2	120	260	90.5	4.0	86	69	60	792.0	1120.0	110.00	1800	2600	148	239	2.5	21.50
32926	130	180	32	2.0	32	25	31	198.0	365.0	38.00	2400	3600	141	173	2.0	2.40
32026 X	130	200	45	2.5	45	34	42	314.0	540.0	55.00	2200	3000	144	192	2.0	4.95
30226 J2	130	230	43.75	4.0	40	34	45	369.0	490.0	53.00	2000	2800	152	217	2.5	7.60
32226 J2	130	230	67.75	4.0	64	54	56	550.0	830.0	85.00	2000	2800	146	219	2.5	11.50
30326 J2	130	280	63.75	5.0	58	49	51	627.0	800.0	83.00	1800	2400	164	255	3.0	17.00
31326 J2	130	280	72	5.0	66	44	84	605.0	780.0	81.50	1600	2400	157	261	3.0	18.50
32928	140	190	32	2.0	32	25	33	205.0	390.0	40.00	2200	3400	150	184	1.5	2.55
32028 X	140	210	45	2.5	45	34	46	330.0	585.0	58.50	2200	2800	153	202	2.0	5.25
30228 J2	140	250	45.75	4.0	42	36	47	418.0	570.0	58.50	1900	2600	164	234	2.5	8.65



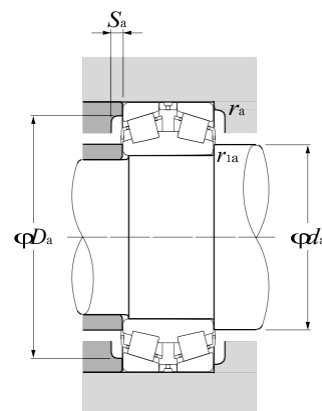
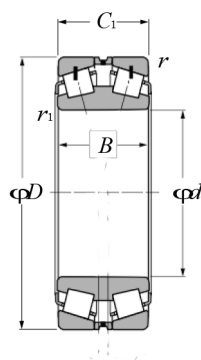
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r mm	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
32228 J2	140	250	71.75	4.0	68	58	60	644.0	1000.0	100.00	1900	2600	159	238	2.5	14.50
31328 J2	140	300	77	5.0	70	47	90	693.0	900.0	88.00	1500	2200	169	280	3.0	24.50
32030 X	150	225	48	3.0	48	36	49	369.0	655.0	65.50	2000	2600	164	216	2.0	6.35
33030	150	225	59	3.0	59	46	48	457.0	865.0	86.50	2000	2600	164	217	2.0	8.15
30230	150	270	49	4.0	45	38	50	429.0	560.0	57.00	1800	2400	175	250	2.5	11.00
32230 J2	150	270	77	4.0	73	60	64	737.0	1140.0	112.00	1700	2400	171	254	2.5	17.50
31330 J2	150	320	82	5.0	75	50	96	781.0	1020.0	100.00	1400	2000	181	300	3.0	29.50
32032 X	160	240	51	3.0	51	38	52	429.0	780.0	78.00	1800	2400	175	231	2.0	7.75
30232 J2	160	290	52	4.0	48	40	54	528.0	735.0	72.00	1600	2200	189	269	2.5	13.00
32232 J2	160	290	84	4.0	80	67	70	880.0	1400.0	132.00	1600	2200	183	274	2.5	25.50
30332 J2	160	340	75	5.0	68	58	61	913.0	1180.0	114.00	1500	2000	201	310	3.0	29.00
32934	170	230	38	2.5	38	30	42	286.0	585.0	55.00	1900	2800	183	222	2.0	4.50
32034 X	170	260	57	3.0	57	43	56	512.0	915.0	90.00	1700	2200	188	249	2.0	10.50
30234 J2	170	310	57	5.0	52	43	58	616.0	865.0	83.00	1500	2000	203	288	3.0	19.00
32234 J2	170	310	91	5.0	86	71	75	1010.0	1630.0	150.00	1500	2000	196	294	3.0	28.50
32936	180	250	45	2.5	45	34	53	352.0	735.0	68.00	1700	2600	194	241	2.0	6.65
32036 X	180	280	64	3.0	64	48	59	644.0	1160.0	110.00	1600	2200	199	267	2.0	14.50
30236 J2	180	320	57	5.0	52	43	61	583.0	815.0	80.00	1500	2000	211	297	3.0	20.00
32236 J2	180	320	91	5.0	86	71	78	1010.0	1630.0	150.00	1400	1900	204	303	3.0	29.50
32938	190	260	45	2.5	45	34	55	358.0	765.0	72.00	1600	2400	204	251	2.0	7.00
32038 X	190	290	64	3.0	64	48	62	660.0	1200.0	112.0	1500	2000	210	279	2.0	15.00
30238 J2	190	340	60	5.0	55	46	63	721.0	1000.0	95.00	1400	1800	224	318	3.0	24.00
32940	200	280	51	3.0	51	39	53	473.0	950.0	88.00	1500	2200	217	271	2.0	9.50
32040 X	200	310	70	3.0	70	53	66	748.0	1370.0	127.00	1400	1900	222	297	2.0	19.50
30240 J2	200	360	64	5.0	58	48	68	792.0	1120.0	106.00	1300	1700	237	336	3.0	25.00
32240 J2	200	360	104	5.0	98	82	83	1210.0	2000.0	180.00	1300	1700	231	340	3.0	42.50
32944	220	300	51	3.0	51	39	58	484.0	1000.0	91.50	1400	2000	234	290	2.0	10.00
32044 X	220	340	76	4.0	76	57	72	897.0	1660.0	150.00	1300	1700	244	326	2.5	25.50
30244 J2	220	400	72	5.0	65	54	74	990.0	1400.0	129.00	1200	1600	259	371	3.0	40.00



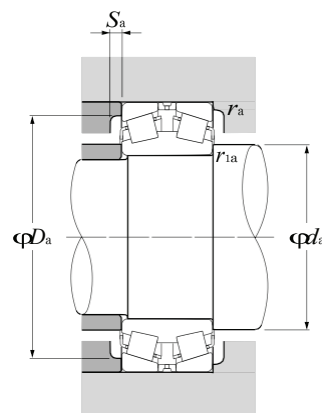
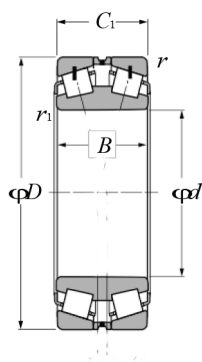
Codice Code	Dimensioni - Dimensions							Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	T mm	r mm	B mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	ra mm	Kg
32244 J2	220	400	114	5.0	108	90	95	1610.0	2700.0	232.00	1100	1500	253	379	3.0	60.00
32948	240	320	51	3.0	51	39	64	512.0	1080.0	96.50	1300	1900	255	311	2.0	11.00
32048 X	240	360	76	4.0	76	57	78	935.0	1800.0	160.00	1200	1600	262	346	2.5	27.50
32248 J2	240	440	127	5.0	120	100	105	1790.0	3350.0	275.00	1000	1400	290	415	3.0	83.50
32052 X	260	400	87	5.0	87	65	84	1170.0	2200.0	190.00	1100	1400	287	383	3.0	40.00
32252 J2	260	480	137	6.0	130	106	112	2200.0	3650.0	300.00	900	1200	303	454	4.0	105.00
30352 J2	260	540	113	6.0	102	85	97	2120.0	3050.0	250.00	850	1200	325	493	5.0	110.00
32956	280	380	63.5	3.0	63.5	48	74	765.0	1660.0	143.00	1100	1600	298	368	2.0	20.00
32056 X	280	420	87	5.0	87	65	89	1210.0	2360.0	200.00	1000	1300	305	402	3.0	40.50
32960	300	420	76	4.0	76	57	79	1050.0	2240.0	190.00	950	1400	324	405	2.5	32.00
32060 X	300	460	100	5.0	100	74	97	1540.0	3000.0	250.00	900	1200	330	439	3.0	58.00
32260 J2	300	540	149	6.0	140	115	126	2750.0	4750.0	365.00	800	1100	343	511	4.0	140.00
32964	320	440	76	4.0	76	57	84	1080.0	2360.0	196.00	900	1300	343	426	2.5	33.50
32064 X	320	480	100	5.0	100	74	103	1540.0	3100.0	255.00	850	1100	350	461	3.0	64.00
32968	340	460	76	4.0	76	57	90	1080.0	2400.0	200.00	850	1300	361	446	2.5	35.00
32972	360	480	76	4.0	76	57	96	1120.0	2550.0	204.00	800	1200	380	466	2.5	37.00



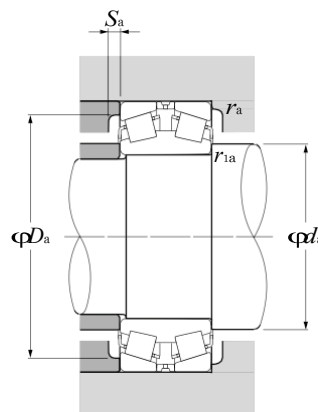
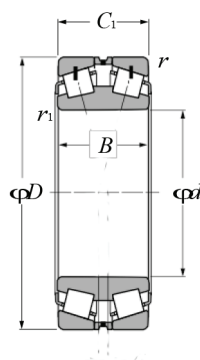
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	B mm	r mm	C mm	a mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Db mm	Sb mm	ra mm	Kg
30308 J2/DB	40	90	72	0.6	61.5	50	147	190	21.6	4800	8000	49	82	5	0.6	1.90
30215 J2/DB	75	130	70	0.6	59.5	69	238	355	41.5	3000	5000	84	124	5	0.6	3.25
32215 J2/DB	75	130	80	0.6	67.5	72	275	425	49.0	3000	5000	84	125	6	0.6	6.80
32216 J2/DB	80	140	78	0.6	63.5	68	319	490	57.0	2800	4500	90	134	7	0.6	4.45
32017 J2/DB	85	130	66	0.6	52.0	64	238	450	51.0	2800	4800	92	125	7	0.6	2.70
30217 J2/DB	85	150	71	0.6	58.5	71	303	440	51.0	2600	4300	95	141	6.5	0.6	4.10
31318 J2/DB	90	190	103	1.0	70.0	124	457	630	73.5	1900	3400	105	179	16.5	1.0	12.50
32220 J2/DB	100	180	108	1.0	88	92	539	880	96.5	2200	3600	112	171	10	1.0	10.50
32022 J2/DB	110	170	84	0.6	66	80	402	780	85.0	2200	3600	121	163	9	0.6	6.50
32024 J2/DB	120	180	84	0.6	66	86	418	830	88.0	2000	3400	131	173	9	0.6	7.00
32224 J2/DB	120	215	146	1.0	123	125	792	1400	146	1800	3000	132	204	11.5	1.0	21.00
31324 J2/DB	120	260	146	1.0	134	166	935	1400	146	1400	2400	135	244	26	1.0	35.00
30226 J2/DB	130	230	97.5	1.0	78	99	627	980	106	1700	2800	146	217	9.5	1.0	15.00
30326 J2/DB	130	280	142	1.5	112.5	117	1080	1600	166	1400	2400	150	255	14.5	1.5	36.50
32028 J2/DB	140	210	130	0.6	108	132	561	1160	116	1700	2800	152	202	11	0.6	12.70
30228 J2/DB	140	250	106	1.0	86.5	108	721	1140	116	1500	2600	156	234	9.5	1.0	19.50
32228 J2/DB	140	250	158	1.0	130.5	134	1100	2000	200	1500	2600	156	238	13.50	1.0	31.00
32230 J2/DB	150	270	168	1.0	134	142	1250	2280	224	1400	2400	166	254	17	1.0	38.00
31330 J2/DB	150	320	179	1.5	115	207	1340	2040	200	1100	2000	170	300	32	1.5	58.50
32232 J2/DB	160	290	179	1.0	145	150	1510	2800	265	1300	2200	176	274	17	1.0	52.50
32034 J2/DB	170	260	162	1.0	134	160	880	1830	180	1400	2200	184	249	14	1.0	30.50
32936 DB	180	250	135	0.6	83	122	605	1460	137	1400	2600	192	241	11	0.6	14.50
32036 X/DB	180	280	150	1.0	118	140	1100	2320	220	1300	2200	194	267	16	1.0	29.50
32236 J2/DB	180	320	196	1.5	156	169	1720	3250	300	1100	1900	200	297	14	1.5	61.50
32938 DB	190	260	102	0.6	80	122	616	1530	143	1300	2400	202	251	11	0.6	15.00
32035 X/DB	190	290	146	1.0	114	142	1120	2400	224	1200	2000	204	279	16	1.0	31.50
32040 X/DB	200	310	154.5	1.0	120.5	147	1280	2750	255	1100	1900	214	297	17	1.0	39.50
32044 X/DB	220	340	168	1.0	130	160	1540	3550	300	1000	1700	236	326	19	1.0	52.00
32048 X/DB	240	360	172	1.0	134	175	1570	3550	315	950	1600	256	346	19	1.0	56.00



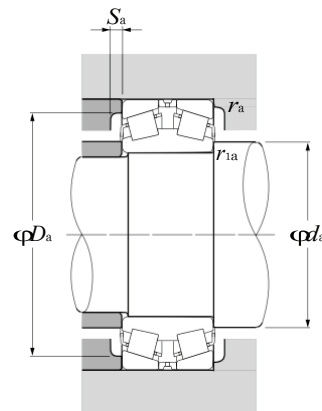
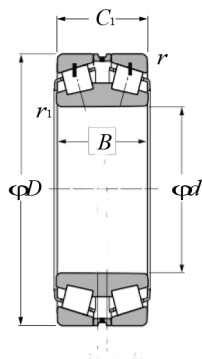
Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight Kg
	d mm	D mm	C1 mm	r min	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	Sa mm	ra mm	
31305 J2/QDF	25	62	36.5	1.5	34	64.4	80	8.65	6000	11000	34	55	3	1.5	0.55
31306 J2/QDF	30	72	41.5	1.5	38	80.9	100	11.4	5300	9500	40	65	3	1.5	0.85
31307 J2/QDF	35	80	45.5	1.5	42	105	134	15.6	4500	8500	45	71	3	1.5	1.10
31308 J2/QDF	40	90	50.5	1.5	46	146	163	19	4500	7500	51	81	3	1.5	1.50
31309 J2/QDF	45	100	54.5	1.5	50	180	204	24.5	4000	6700	57	91	4	1.5	2.00
30210 J2/QDF	50	90	43.5	1.5	40	130	183	20.8	4500	7500	58	83	3	1.5	1.10
31310 J2/QDF	50	110	58.5	2.0	54	208	240	28.5	3600	6000	62	100	4	2.0	2.60
33011 QDF	55	90	54	1.5	54	180	270	30.5	4500	7000	63	83	5	1.5	1.35
31311 J2/QDF	55	120	63	2.0	58	209	275	33.5	3000	5600	68	112	4	2.0	3.30
32012 X/QDF	60	95	46	1.5	46	163	245	27	4300	6700	67	88	4	1.5	1.90
32212 J2/QDF	60	110	59.5	1.5	56	216	320	37.5	3600	6000	69	103	4	1.5	2.40
31312 J2/QDF	60	130	67	2.5	62	246	335	40.5	2800	5300	74	118	5	2.0	4.10
30213 J2/QDF	65	120	49.5	1.5	46	228	270	32.5	3600	5600	78	113	4	1.5	1.20
31313 J2/QDF	65	140	72	2.5	66	281	380	47.5	2600	4800	80	128	5	2.0	5.05
32014 X/QDF	70	110	50	1.5	50	172	305	34.5	3400	5600	78	103	5	1.5	1.80
33014 DF	70	110	62	1.5	62	220	400	45.5	3400	5600	78	103	5	1.5	2.40
31314 J2/QDF	70	150	76	2.5	70	319	440	54	2400	4500	85	138	5	2.0	6.15
33015 QDF	75	115	62	1.5	62	233	455	52	3200	5300	84	108	6	1.5	2.40
33115 QDF	75	125	74	1.5	74	303	530	63	3000	5000	84	117	6	1.5	3.80
30215 J2/QDF	75	130	54.5	1.5	50	238	355	41.5	3000	5000	86	122	4	1.5	2.85
32215 J2/QDF	75	130	66.5	1.5	62	275	425	49	3000	5000	85	122	4	1.5	3.40
31315 J2/QDF	75	160	80	2.5	74	358	490	58.5	2200	4300	91	148	6	2.0	7.25
32016 X/QDF	80	125	58	1.5	58	233	430	49	3000	5000	90	117	6	1.5	2.65
32216 J2/QDF	80	140	70.5	2.0	66	319	490	57	2800	4500	91	130	5	2.0	4.25
31316 J2/QDF	80	170	85	2.5	78	380	530	64	2200	4000	97	158	6	2.0	8.75
32017 X/QDF	85	130	58	1.5	58	238	450	51	2800	4800	94	122	6	1.5	2.80
33017 QDF	85	130	72	1.5	72	308	620	69.5	2800	4800	94	122	6	1.5	3.55
30217 J2/QDF	85	150	61	2.0	56	303	440	51	2600	4300	97	140	5	2.0	4.30
32217 J2/QDF	85	150	77	2.0	72	369	570	65.5	2600	4300	97	140	5	2.0	5.45



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	C1 mm	r mm	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	Sa mm	ra mm	
33217 QDF	85	150	98	2.0	98	495	850	96.5	2400	4300	96	140	7	2.0	7.35
31317 J2/DF	85	180	89	3.0	82	413	570	67	2000	3800	103	166	6	2.5	10.00
32018 X/QDF	90	140	64	1.5	64	292	540	62	2600	4300	100	132	6	1.5	3.65
33018 QDF	90	140	78	1.5	78	369	710	78	2600	4500	100	132	7	1.5	4.50
30218 J2/DF	90	160	65	2.0	60	336	490	57	2400	4000	102	150	5	2.0	5.15
32218 J2/DF	90	160	85	2.0	80	429	680	76.5	2400	4000	102	150	5	2.0	6.90
31318 J2/DF	90	190	93	3.0	86	457	630	73.5	1900	3400	109	176	5	2.5	11.50
33019 QDF	95	145	78	1.5	78	380	735	81.5	2600	4300	104	138	7	1.5	5.00
32219 J2/DF	95	170	91	2.5	86	484	780	86.5	2200	3800	109	158	5	2.0	8.45
31319 J2/DF	95	200	99	3.0	90	501	710	78	1800	3400	114	186	5	2.5	13.00
32020 X/QDF	100	150	64	1.5	64	292	560	62	2400	4000	110	142	6	1.5	3.95
30220 J2/DF	100	180	74	2.5	68	418	640	72	2200	3600	116	168	5	2.0	7.60
32220 J2/DF	100	180	98	2.5	92	539	880	96.5	2200	3600	115	168	5	2.0	10.00
30320 J2/DF	100	215	103	3.0	94	693	980	106	1900	3200	127	201	6	2.5	16.50
31320 J2/DF	100	215	113	3.0	102	644	930	102	1700	3000	121	201	7	2.5	18.00
32021 X/QDF	105	160	70	2.0	70	347	670	73.5	2200	3800	116	150	6	2.0	5.00
32022 X/QDF	110	170	76	2.0	76	402	780	85	2200	3600	123	160	7	2.0	6.30
33122 DF	110	180	112	2.0	112	627	1250	134	2000	3400	121	170	9	2.0	11.50
30222 J2/DF	110	200	82	2.5	76	523	800	90	2000	3200	129	174	6	2.0	10.50
32222 J2/DF	110	200	112	2.5	106	682	1140	122	1900	3200	127	188	6	2.0	14.50
31322 J2/DF	110	240	126	3.0	114	781	1160	125	1500	2800	135	226	7	2.5	26.00
32024 X/DF	120	180	76	2.0	76	418	830	88	2000	3400	132	170	7	2.0	6.75
33024 DF	120	180	96	2.0	96	495	1080	112	2000	3400	132	170	6	2.0	8.65
30224 J2/DF	120	215	87	2.5	80	583	915	98	1800	3000	141	203	6	2.0	13.00
32224 J2/DF	120	215	123	2.5	116	792	1400	146	1800	3000	137	203	7	2.0	18.50
30324 J2/DF	120	260	119	3.0	110	968	1400	146	1600	2600	153	245	7	2.5	29.50
31324 J2/DF	120	260	136	3.0	124	935	1400	146	1400	2400	145	245	9	2.5	33.50
32926 DF	130	180	64	1.5	64	341	735	76.5	2000	3600	141	172	6	1.5	4.95
32026 X/DF	130	200	90	2.0	90	539	1080	110	1800	3000	144	190	7	2.0	10.00



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight Kg
	d mm	D mm	C1 mm	r mm	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	Sa mm	ra mm	
30226 J2/DF	130	230	87.5	3.0	80	627	980	106	1700	2800	152	216	7	2.5	14.50
32226 J2/DF	130	230	135.5	3.0	128	952	1660	170	1600	2800	146	216	7	2.5	23.00
31326 J2/DF	130	280	144	4.0	132	1050	1560	163	1300	2400	157	263	8	3.0	40.00
32028 X/DF	140	210	90	2.0	90	561	1160	116	1700	2800	153	200	7	2.0	11.00
30228 J2/DF	140	250	91.5	3.0	84	721	1140	116	1500	2600	164	236	7	2.5	18.00
32228 J2/DF	140	250	143.5	3.0	136	1100	2000	200	1500	2600	159	236	8	2.5	29.50
31328 J2/DF	140	300	154	4.0	140	1190	1800	176	1200	2200	169	283	9	3.0	52.50
32030 X/DF	150	225	96	2.5	96	644	1320	132	1600	2600	164	213	8	2.0	13.50
30230 DF	150	270	98	3.0	90	737	1120	114	1400	2400	175	256	9	2.5	22.50
32230 J2/DF	150	270	154	3.0	146	1250	2280	224	1400	2400	171	256	8	2.5	37.00
31330 J2/DF	150	320	164	4.0	150	1340	2040	200	1100	2000	181	303	9	3.0	58.50
32032 X/DF	160	240	102	2.5	102	737	1560	156	1500	2400	175	228	8	2.0	16.00
30232 J2/DF	160	290	104	3.0	96	913	1460	143	1300	2200	189	275	8	2.5	27.50
32232 J2/DF	160	290	168	3.0	160	1510	2800	265	1300	2200	183	275	10	2.5	48.00
32934 DF	170	230	76	2.0	76	484	1160	110	1500	2800	183	220	7	2.0	9.20
32034 X/DF	170	260	114	2.5	114	880	1830	180	1400	2200	188	246	10	2.0	22.00
32234 J2/DF	170	310	182	4.0	172	1720	3250	300	1200	2000	196	293	10	3.0	59.00
32936 DF	180	250	90	2.0	90	605	1460	137	1400	2600	194	240	8	2.0	14.00
32036 X/DF	180	280	128	2.5	128	1100	2320	220	1300	2000	199	266	10	2.0	29.50
30236 J2/DF	180	320	114	4.0	104	1010	1630	160	1200	2000	211	303	9	3.0	42.00
32236 J2/DF	180	320	182	4.0	172	1720	3250	300	1100	1900	204	303	10	3.0	61.00
32938 DF	190	260	90	2.0	90	616	1530	143	1300	2400	204	248	8	2.0	14.50
32038 X/DF	190	290	128	2.5	128	1120	2400	224	1200	2000	210	276	10	2.0	30.50
30238 J2/DF	190	340	120	4.0	110	1230	2000	190	1100	1800	224	323	9	3.0	50.00
32040 X/DF	200	310	140	2.5	140	1280	2750	255	1100	1900	222	296	11	2.0	39.00
30240 J2/DF	200	360	128	4.0	116	1340	2240	212	1000	1700	237	343	9	3.0	52.00
32240 J2/DF	200	360	208	4.0	196	2090	4000	360	1000	1700	231	343	11	3.0	88.00
32944 DF	220	300	102	2.5	102	842	2000	183	1100	2000	234	286	9	2.0	21.00
32044 X/DF	220	340	152	3.0	152	1540	3350	300	1000	1700	244	325	12	2.5	51.00



Codice Code	Dimensioni - Dimensions					Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions				Peso Weight
	d mm	D mm	C1 mm	r mm	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	Sa mm	ra mm	
32048 X/DF	240	360	152	3.0	152	1570	3550	315	950	1600	262	345	12	2.5	54.50
32052 X/DF	260	400	174	4.0	174	1980	4400	380	850	1400	287	383	13	3.0	79.50
32056 X/DF	280	420	174	4.0	174	2050	4750	400	800	1300	305	400	14	3.0	84.50
32960 DF	300	420	152	3.0	152	1790	4500	375	800	1400	324	404	12	2.5	65.50
32064 X/DF	320	480	200	4.0	200	2640	6200	510	700	1100	350	460	15	3.0	125.00



Cuscinetti Orientabili a Rulli
Spherical Roller Bearings

I cuscinetti orientabili a rulli hanno due corone di corpi volventi, un'unica pista sferica sull'anello esterno e due piste sull'anello interno disposte con una determinata angolazione rispetto all'asse trasversale del cuscinetto. Le loro particolari caratteristiche costruttive li rendono insostituibili in molte applicazioni gravose, ed essendo orientabili questi cuscinetti non sono sensibili al disallineamento dell'albero rispetto all'alloggiamento nè alle flessioni dell'albero stesso.

La gamma standard dei cuscinetti orientabili a rulli comprende

- Cuscinetti aperti
- Cuscinetti con tenute incorporate (chiedere al servizio tecnico)
- Cuscinetti per applicazioni vibranti (chiedere al servizio tecnico)

I cuscinetti orientabili a rulli sono prodotti in diverse esecuzioni in base alle dimensioni ed alla serie come descritto qui di seguito:

- **C, CC** - Due gabbie in acciaio del tipo a feritoie, anello interno privo di orletti e anello di guida centrato sull'anello interno.
- **EC, ECC** - Due gabbie di acciaio del tipo a feritoie, anello interno privo di orletti, anello di guida centrato sull'anello interno e rulli rinforzati.
- **CA** - Gabbia massiccia in un solo pezzo in ottone con doppia alettatura, orletti laterali di ritenuta sull'anello interno e anello di guida centrato sull'anello interno.
- **CAF** - Come l'esecuzione CA, ma con gabbia in acciaio
- **ECA, ECAC** - Gabbia massiccia in un solo pezzo in ottone con doppia alettatura, orletti laterali di ritenuta sull'anello interno, anello di guida centrato sull'anello interno e rulli rinforzati.
- **ECAF** - Come l'esecuzione ECA ma con gabbia in acciaio
- **E** - Quando il diametro del foro del cuscinetto è < 65 mm, due gabbie in acciaio del tipo a feritoie, anello interno privo di orletti e anello di guida centrato sulle gabbie
- **CAFA** - Gabbia massiccia in un solo pezzo in acciaio, con doppia alettatura, centrata sulla pista dell'anello esterno, orletti di ritenuta sull'anello interno e anello di guida centrato sull'anello interno
- **CAMA** - Come l'esecuzione CAFA ma con gabbia in ottone.

A parte alcune eccezioni tutti i cuscinetti orientabili a rulli sono disponibili sia con foro cilindrico che con foro conico (appellativo **K**) Per facilitare la lubrificazione del cuscinetto i cuscinetti orientabili a rulli sono dotati di

- Scanalatura circonferenziale e tre fori di lubrificazione sull'anello esterno appellativo **W33**

mentre i cuscinetti orientabili a rulli in esecuzione E hanno la scanalatura circonferenziale e tre fori di lubrificazione di serie, per questa ragione il suffisso W33 viene omissso dall'appellativo del cuscinetto.

The spherical roller bearings have two rows of rolling elements, a single spherical raceway on the outer ring and two runs on the inner ring arranged with a certain angle with respect to the transverse axis of the bearing. Their special design features make them irreplaceable in many demanding applications, and being adjustable these bearings are not sensitive to misalignment of the shaft relative to the housing nor to bending of the shaft.

The standard range of spherical roller bearings includes

- *Open bearings*
- *Sealed bearings (ask your service technician)*
- *Bearings for vibratory applications (ask your service technician)*

The spherical roller bearings are produced in different versions based on the size and the range as described below:

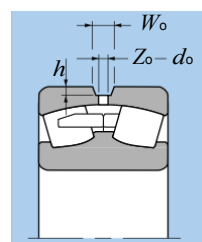
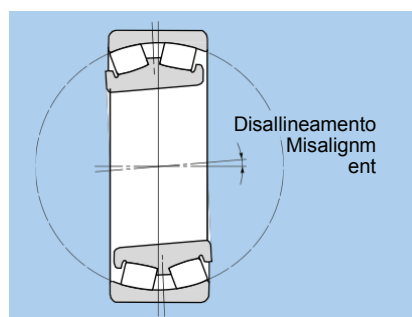
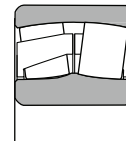
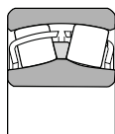
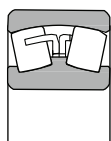
- **C, CC** - Two window-type steel cages with slots, inner ring without flanges and guide ring centered on the inner ring.
- **EC, ECC** - Two window-type steel cages loopholes, Inner ring without flanges, guide ring centered on the inner ring and rollers reinforced.
- **CA** - cage in one piece brass with double fins, lateral retaining flanges on the inner ring and guide ring centered on the inner ring.
- **CAF** - How to run AC, but with steel cage
- **ECA, ECAC** - cage in one piece brass with double fins, lateral retaining flanges on the inner ring, guide ring centered on the inner ring and rollers reinforced.
- **ECAF** - How to run ECA but with steel cage
- **E** - When the hole diameter of the bearing is < 65 mm, two cages type steel slotted, inner ring without flanges and guide ring centered on the cages
- **CAFA** - cage in a single piece of steel, with double fins, centered on the outer ring raceway, flanges Inner retaining ring and guide ring centered on the inner ring
- **CAMA** - How to run CFAA but with brass cage.

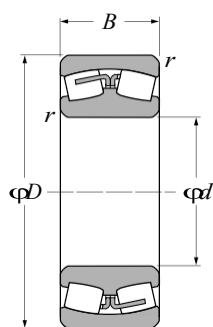
With a few exceptions all spherical roller bearings are available with cylindrical bore that tapered bore (K name)

To facilitate lubrication of the bearing spherical roller bearings are equipped with

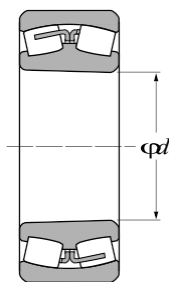
- *Circumferential groove and three lubrication holes in outer ring **W33** title*

while the spherical roller bearings running E have the annular groove and three lubrication holes as standard, for this reason the suffix is omitted from W33 'appellation of the bearing.

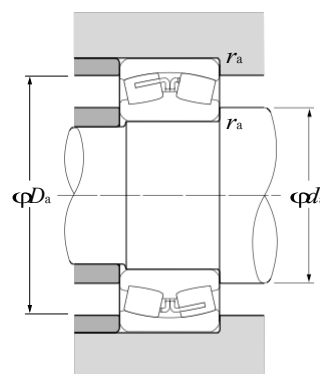




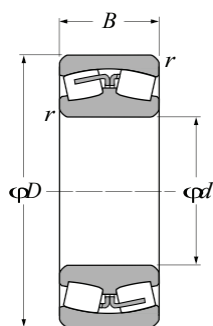
Foro cilindrico
Cylindric hole



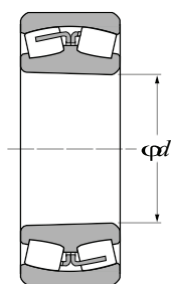
Foro conico 1:12
Conic hole 1:12



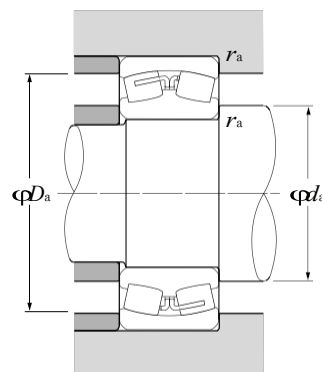
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
22205 E	25	52	18	1.0	49	44	4.75	13000	17000	30.6	46.4	1.0	0.26
22205 EK	25	52	18	1.0	49	44	4.75	13000	17000	30.6	46.4	1.0	0.26
21305 CC	25	62	17	1.1	41.4	41.5	4.55	8500	12000	32.0	55.0	1.0	0.28
22206 E	30	62	20	1.0	64	60	6.40	10000	14000	35.6	56.4	1.0	0.29
22206 EK	30	62	20	1.0	64	60	6.40	10000	14000	35.6	56.4	1.0	0.29
21306 CC	30	72	19	1.1	55.2	61	6.80	7500	10000	37.0	65.0	1.0	0.41
21306 CCK	30	72	19	1.1	55.2	61	6.80	7500	10000	37.0	65.0	1.0	0.41
22207 E	35	72	23	1.1	86.5	85	9.3	9000	12000	42.0	65.0	1.0	0.45
22207 EK	35	72	23	1.1	86.5	85	9.3	9000	12000	42.0	65.0	1.0	0.45
21307 CC	35	80	21	1.5	65.6	72	8.15	6700	9500	44.0	71.0	1.5	0.55
21307 CCK	35	80	21	1.5	65.5	72	8.15	6700	9500	44.0	71.0	1.5	0.55
22208 E	40	80	23	1.1	96.5	90	9.8	8000	11000	47.0	73.0	1.0	0.53
22208 EK	40	80	23	1.1	96.5	90	9.8	8000	11000	47.0	73.0	1.0	0.53
21308 E	40	90	23	1.5	104	108	11.8	7000	9500	49.0	81.0	1.5	0.75
21308 EK	40	90	23	1.5	104	108	11.8	7000	9500	49.0	81.0	1.5	0.75
22308 E	40	90	33	1.5	150	140	15.0	6000	8000	49.0	81.0	1.5	1.05
22308 EK	40	90	33	1.5	150	140	15.0	6000	8000	49.0	81.0	1.5	1.05
22209 E	45	85	23	1.1	102	98	10.8	7500	10000	52.0	78.0	1.0	0.58
22209 EK	45	85	23	1.1	102	98	10.8	7500	10000	52.0	78.0	1.0	0.58
21309 E	45	100	25	1.5	125	127	13.7	6300	8500	54.0	91.0	1.5	0.99
21309 EK	45	100	25	1.5	125	127	13.7	6300	8500	54.0	91.0	1.5	0.99
22309 E	45	100	36	1.5	183	183	19.6	5300	7000	54.0	91.0	1.5	1.40
22309 EK	45	100	36	1.5	183	183	19.6	5300	7000	54.0	91.0	1.5	1.40
22210 E	50	90	23	1.1	104	108	11.8	7000	9500	57.0	83.0	1.0	0.63
22210 EK	50	90	23	1.1	104	108	11.8	7000	9500	57.0	83.0	1.0	0.63
21310 E	50	110	27	2.0	156	166	18.6	5600	7500	61.0	99.0	2.0	1.35
21310 EK	50	110	27	2.0	156	166	18.6	5600	7500	61.0	99.0	2.0	1.35
22310 E	50	110	40	2.0	220	224	24.0	4800	6300	61.0	99.0	2.0	1.90
22310 EK	50	110	40	2.0	220	224	24.0	4800	6300	61.0	99.0	2.0	1.90



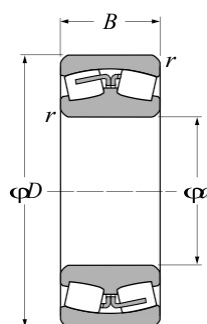
Foro cilindrico
Cylindric hole



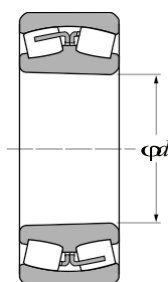
Foro conico 1:12
Conic hole 1:12



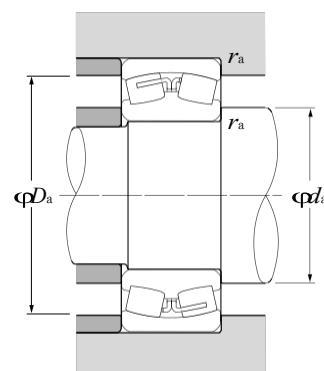
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
22211 E	55	100	25	1.5	125	127	13.7	6300	8500	64.0	91.0	1.5	0.84
22211 EK	55	100	25	1.5	125	127	13.7	6300	8500	64.0	91.0	1.5	0.84
21311 E	55	120	29	2.0	156	166	18.6	5600	7500	66.0	109.0	2.0	1.70
21311 EK	55	120	29	2.0	156	166	18.6	5600	7500	66.0	109.0	2.0	1.70
22311 E	55	120	43	2.0	270	280	30.0	4300	5600	66.0	109.0	2.0	2.45
22311 EK	55	120	43	2.0	270	280	30.0	4300	5600	66.0	109.0	2.0	2.45
22212 E	60	110	28	1.5	156	166	18.6	5600	7500	69.0	101.0	1.5	1.15
22212 EK	60	110	28	1.5	156	166	18.6	5600	7500	69.0	101.0	1.5	1.15
21312 E	60	130	31	2.1	212	240	26.5	4800	6300	72.0	118.0	2.0	2.10
21312 EK	60	130	31	2.1	212	240	26.5	4800	6300	72.0	118.0	2.0	2.10
22312 E	60	130	46	2.1	310	335	36.5	4000	5300	72.0	118.0	2.0	3.10
22312 EK	60	130	46	2.1	310	335	36.5	4000	5300	72.0	118.0	2.0	3.10
24013 CC/W33	65	100	35	1.1	132	173	20.4	4300	6300	71.0	94.0	1.0	0.95
24013 CCK/W33	65	100	35	1.1	132	173	20.4	4300	6300	71.0	94.0	1.0	0.95
22213 E	65	120	31	1.5	193	216	24.0	5000	7000	74.0	111.0	1.5	1.55
22213 EK	65	120	31	1.5	193	216	24.0	5000	7000	74.0	111.0	1.5	1.55
21313 E	65	140	33	2.1	236	270	29.0	4300	6000	77.0	128.0	2.0	2.55
21313 EK	65	140	33	2.1	236	270	29.0	4300	6000	77.0	128.0	2.0	2.55
22313 E	65	140	48	2.1	340	360	38.0	3800	5000	77.0	128.0	2.0	3.75
22313 EK	65	140	48	2.1	340	360	38.0	3800	5000	77.0	128.0	2.0	3.75
22214 E	70	125	31	1.5	208	228	25.5	5000	6700	79.0	116.0	1.5	1.55
22214 EK	70	125	31	1.5	208	228	25.5	5000	6700	79.0	116.0	1.5	1.55
21314 E	70	150	35	2.1	285	325	34.5	4000	5600	82.0	138.0	2.0	3.10
21314 EK	70	150	35	2.1	285	325	34.5	4000	5600	82.0	138.0	2.0	3.10
22314 E	70	150	51	2.1	400	430	45.0	3400	4500	82.0	138.0	2.0	4.55
22314 EK	70	150	51	2.1	400	430	45.0	3400	4500	82.0	138.0	2.0	4.55
24015 CC/W33	75	115	40	1.1	173	232	28.5	3800	5300	81.0	109.0	1.0	1.55
24015 CCK/W33	75	115	40	1.1	173	232	28.5	3800	5300	81.0	109.0	1.0	1.55
22215 E	75	130	31	1.5	212	240	26.5	4800	6300	84.0	121.0	1.5	1.70



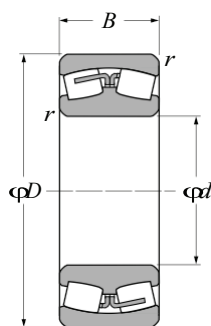
Foro cilindrico
Cylindric hole



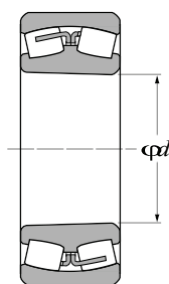
Foro conico 1:12
Conic hole 1:12



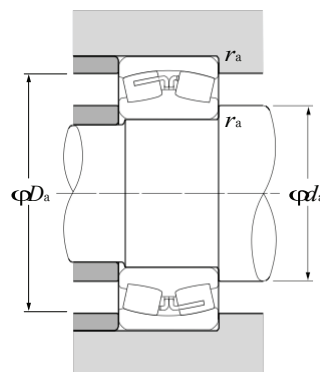
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
22215 EK	75	130	31	1.5	212	240	26.5	4800	6300	84.0	121.0	1.5	1.70
21315 E	75	160	37	2.1	285	325	34.5	4000	5600	87.0	148.0	2.0	3.75
21315 EK	75	160	37	2.1	285	325	34.5	4000	5600	87.0	148.0	2.0	3.75
22315 E	75	160	55	2.1	440	475	48.0	3200	4300	87.0	148.0	2.0	5.55
22315 EK	75	160	55	2.1	440	475	48.0	3200	4300	87.0	148.0	2.0	5.55
22216 E	80	140	33	2.0	236	270	29.0	4300	6000	91.0	129.0	2.0	2.10
22216 EK	80	140	33	2.0	236	270	29.0	4300	6000	91.0	129.0	2.0	2.10
21316 E	80	170	39	2.1	325	375	39.0	3800	5300	92.0	158.0	2.0	4.45
21316 EK	80	170	39	2.1	325	375	39.0	3800	5300	92.0	158.0	2.0	4.45
22316 E	80	170	58	2.1	490	540	54.0	3000	4000	92.0	158.0	2.0	6.60
22316 EK	80	170	58	2.1	490	540	54.0	3000	4000	92.0	158.0	2.0	6.60
22217 E	85	150	36	2.0	285	325	34.5	4000	5600	96.0	139.0	2.0	2.65
22217 EK	85	150	36	2.0	285	325	34.5	4000	5600	96.0	139.0	2.0	2.65
21317 E	85	180	41	3.0	325	375	39.0	3800	5300	99.0	166.0	2.5	5.20
21317 EK	85	180	41	3.0	325	375	39.0	3800	5300	99.0	166.0	2.5	5.20
22317 E	85	180	60	3.0	550	620	61.0	2800	3800	99.0	166.0	2.5	7.65
22317 EK	85	180	60	3.0	550	620	61.0	2800	3800	99.0	166.0	2.5	7.65
22218 E	90	160	40	2.0	325	375	39.0	3800	5300	101.0	149.0	2.0	3.40
22218 EK	90	160	40	2.0	325	375	39.0	3800	5300	101.0	149.0	2.0	3.40
23218 CC/W33	90	160	52.4	2.0	355	440	48.0	2800	3800	101.0	149.0	2.0	4.65
23218 CCK/W33	90	160	52.4	2.0	355	440	48.0	2800	3800	101.0	149.0	2.0	4.65
21318 E	90	190	43	3.0	380	450	46.5	3600	4800	104.0	176.0	2.5	6.10
21318 EK	90	190	43	3.0	380	450	46.5	3600	4800	104.0	176.0	2.5	6.10
22318 E	90	190	64	3.0	610	695	67.0	2600	3600	104.0	176.0	2.5	9.05
22318 EK	90	190	64	3.0	610	695	67.0	2600	3600	104.0	176.0	2.5	9.05
22219 E	95	170	43	2.1	380	450	46.5	3600	4800	107.0	158.0	2.0	4.15
22219 EK	95	170	43	2.1	380	450	46.5	3600	4800	107.0	158.0	2.0	4.15
21319 E	95	200	45	3.0	425	490	49.0	3400	4500	109.0	186.0	2.5	7.05
21319 EK	95	200	45	3.0	425	490	49.0	3400	4500	109.0	186.0	2.5	7.05



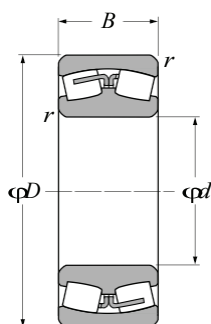
Foro cilindrico
Cylindric hole



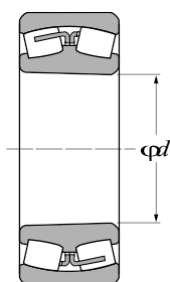
Foro conico 1:12
Conic hole 1:12



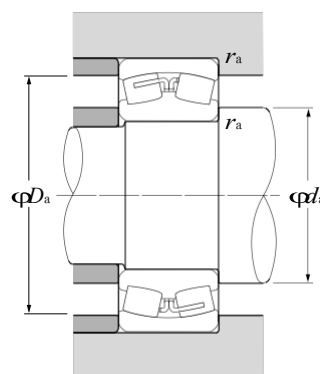
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
22319 E	95	200	67	3.0	670	765	73.5	2600	3400	109	186	2.5	10.50
22319 EK	95	200	67	3.0	670	765	73.5	2600	3400	109	186	2.5	10.50
24020 CC/W33	100	150	50	1.5	285	415	45.5	2800	4000	107	143	1.5	3.15
24020 CCK/W33	100	150	50	1.5	285	415	45.5	2800	4000	107	143	1.5	3.15
23120 CC/W33	100	165	52	2.0	365	490	53.0	3000	4000	111	154	2.0	4.55
23120 CCK/W33	100	165	52	2.0	365	490	53.0	3000	4000	111	154	2.0	4.55
24120 CC/W33	100	165	65	2.0	455	640	68.0	2400	3200	111	154	2.0	5.65
24120 CCK/W33	100	165	65	2.0	455	640	68.0	2400	3200	111	154	2.0	5.65
22220 E	100	180	46	2.1	425	490	49.0	3400	4500	112	168	2.0	4.90
22220 EK	100	180	46	2.1	425	490	49.0	3400	4500	112	168	2.0	4.90
23220 CC/W33	100	180	60.3	2.1	475	600	63.0	2400	3400	112	168	2.0	6.85
23220 CCK/W33	100	180	60.3	2.1	475	600	63.0	2400	3400	112	168	2.0	6.85
21320 E	100	215	47	3.0	425	490	49.0	3400	4500	114	201	2.5	8.60
21320 EK	100	215	47	3.0	425	490	49.0	3400	4500	114	201	2.5	8.60
22320 E	100	215	73	3.0	815	950	88.0	2400	3000	114	201	2.5	13.50
22320 EK	100	215	73	3.0	815	950	88.0	2400	3000	114	201	2.5	13.50
23022 CC/W33	110	170	45	2.0	310	440	46.5	3400	4300	119	161	2.0	3.80
23022 CCK/W33	110	170	45	2.0	310	440	46.5	3400	4300	119	161	2.0	3.80
24022 CC/W33	110	170	60	2.0	415	620	67.0	2400	3600	119	161	2.0	5.00
24022 CCK/W33	110	170	60	2.0	415	620	67.0	2400	3600	119	161	2.0	5.00
23122 CC/W33	110	180	56	2.0	430	585	61.0	2800	3600	121	169	2.0	5.75
23122 CCK/W33	110	180	56	2.0	430	585	61.0	2800	3600	121	169	2.0	5.75
24122 CC/W33	110	180	69	2.0	520	750	78.0	2200	3000	121	169	2.0	7.10
24122 CCK/W33	110	180	69	2.0	520	750	78.0	2200	3000	121	169	2.0	7.10
22222 E	110	200	53	2.1	560	640	63.0	3000	4000	122	188	2.0	7.00
22222 EK	110	200	53	2.1	560	640	63.0	3000	4000	122	188	2.0	7.00
23222 CC/W33	110	200	69.8	2.1	600	765	76.5	2200	3200	122	188	2.0	9.85
23222 CCK/W33	110	200	69.8	2.1	600	765	76.5	2200	3200	122	188	2.0	9.85
22322 E	110	240	80	3.0	950	1120	100.0	2000	2800	124	226	2.5	18.40



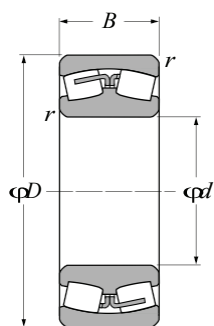
Foro cilindrico
Cylindric hole



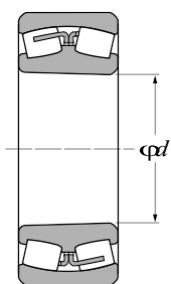
Foro conico 1:12
Conic hole 1:12



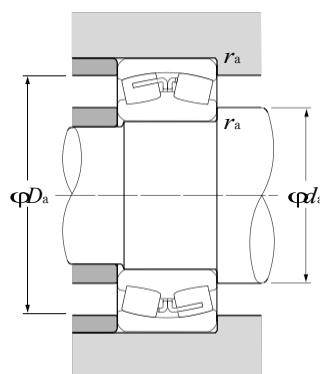
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
22322 EK	110	240	80	3.0	950	1120	100.0	2000	2800	124	226	2.5	18.40
23024 CC/W33	120	180	46	2.0	355	510	53.0	3200	4000	129	171	2.0	4.20
23024 CCK/W33	120	180	46	2.0	355	510	53.0	3200	4000	129	171	2.0	4.20
24024 CC/W33	120	180	60	2.0	430	670	68.0	2400	3400	129	171	2.0	5.45
24024 CCK/W33	120	180	60	2.0	430	670	68.0	2400	3400	129	171	2.0	5.45
23124 CC/W33	120	200	62	2.0	510	695	71.0	2600	3400	131	189	2.0	8.00
23124 CCK/W33	120	200	62	2.0	510	695	71.0	2600	3400	131	189	2.0	8.00
24124 CC/W33	120	200	80	2.0	655	950	95.0	1900	2600	131	189	2.0	10.30
24124 CCK/W33	120	200	80	2.0	655	950	95.0	1900	2600	131	189	2.0	10.30
22224 E	120	215	58	2.1	630	765	73.5	2800	3800	132	203	2.0	8.70
22224 EK	120	215	58	2.1	630	765	73.5	2800	3800	132	203	2.0	8.70
23224 CC/W33	120	215	76	2.1	695	930	93.0	2000	2800	132	203	2.0	12.00
23224 CCK/W33	120	215	76	2.1	695	930	93.0	2000	2800	132	203	2.0	12.00
22324 CC/W33	120	260	86	3.0	965	1120	100.0	2000	2600	134	246	2.5	23.00
22324 CCK/W33	120	260	86	3.0	965	1120	100.0	2000	2600	134	246	2.5	23.00
23026 CC/W33	130	200	52	2.0	430	610	62.0	2800	3600	139	191	2.0	6.00
23026 CCK/W33	130	200	52	2.0	430	610	62.0	2800	3600	139	191	2.0	6.00
24026 CC/W33	130	200	69	2.0	540	815	81.5	2000	3000	139	191	2.0	8.05
24026 CCK/W33	130	200	69	2.0	540	815	81.5	2000	3000	139	191	2.0	8.05
23126 CC/W33	130	210	64	2.0	560	780	78.0	2400	3200	141	199	2.0	8.80
23126 CCK/W33	130	210	64	2.0	560	780	78.0	2400	3200	141	199	2.0	8.80
24126 CC/W33	130	210	80	2.0	680	1000	100.0	1800	2400	141	199	2.0	11.00
24126 CCK/W33	130	210	80	2.0	680	1000	100.0	1800	2400	141	199	2.0	11.00
22226 E	130	230	64	3.0	735	930	88.0	2600	3600	144	216	2.5	11.00
22226 EK	130	230	64	3.0	735	930	88.0	2600	3600	144	216	2.5	11.00
23226 CC/W33	130	230	80	3.0	780	1060	104.0	1900	2600	144	216	2.5	14.50
23226 CCK/W33	130	230	80	3.0	780	1060	104.0	1900	2600	144	216	2.5	14.50
22326 CC/W33	130	280	93	4.0	1120	1320	114.0	1800	2400	147	263	3.0	29.00
22326 CCK/W33	130	280	93	4.0	1120	1320	114.0	1800	2400	147	263	3.0	29.00



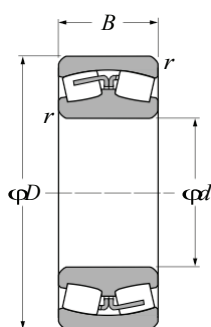
Foro cilindrico
Cylindric hole



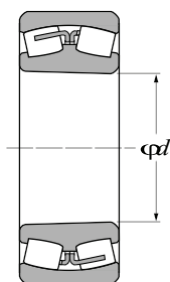
Foro conico 1:12
Conic hole 1:12



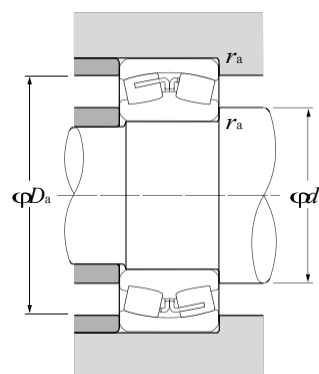
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	B mm	r min	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
23028 CC/W33	140	210	53	2.0	465	680	68.0	2600	3400	149	201	2.0	6.55
23028 CCK/W33	140	210	53	2.0	465	680	68.0	2600	3400	149	201	2.0	6.55
24028 CC/W33	140	210	69	2.0	570	900	88.0	2000	2800	149	201	2.0	8.55
24028 CCK/W33	140	210	69	2.0	570	900	88.0	2000	2800	149	201	2.0	8.55
23128 CC/W33	140	225	68	2.1	630	900	88.0	2200	2800	152	213	2.0	10.50
23128 CCK/W33	140	225	68	2.1	630	900	88.0	2200	2800	152	213	2.0	10.50
24128 CC/W33	140	225	85	2.1	765	1160	112.0	1700	2400	152	213	2.0	13.50
24128 CCK/W33	140	225	85	2.1	765	1160	112.0	1700	2400	152	213	2.0	13.50
22228 CC/W33	140	250	68	3.0	710	900	86.5	2400	3200	154	236	2.5	14.00
22228 CCK/W33	140	250	68	3.0	710	900	86.5	2400	3200	154	236	2.5	14.00
23228 CC/W33	140	250	88	3.0	915	1250	120.0	1700	2400	154	236	2.5	19.00
23228 CCK/W33	140	250	88	3.0	915	1250	120.0	1700	2400	154	236	2.5	19.00
22328 CC/W33	140	300	102	4.0	1290	1560	132.0	1700	2200	157	283	3.0	36.50
22328 CCK/W33	140	300	102	4.0	1290	1560	132.0	1700	2200	157	283	3.0	36.50
23030 CC/W33	150	225	56	2.1	510	750	73.5	2400	3200	161	214	2.0	7.95
23030 CCK/W33	150	225	56	2.1	510	750	73.5	2400	3200	161	214	2.0	7.95
24030 CC/W33	150	225	75	2.1	655	1040	100.0	1800	2600	161	214	2.0	10.50
24030 CCK/W33	150	225	75	2.1	655	1040	100.0	1800	2600	161	214	2.0	10.50
23130 CC/W33	150	250	80	2.1	830	1200	114.0	2000	2600	162	238	2.0	16.00
23130 CCK/W33	150	250	80	2.1	830	1200	114.0	2000	2600	162	238	2.0	16.00
24130 CC/W33	150	250	100	2.1	1020	1530	146.0	1500	2200	162	238	2.0	20.00
24130 CCK/W33	150	250	100	2.1	1020	1530	146.0	1500	2200	162	238	2.0	20.00
22230 CC/W33	150	270	73	3.0	850	1080	102.0	2200	3000	164	256	2.5	18.00
22230 CCK/W33	150	270	73	3.0	850	1080	102.0	2200	3000	164	256	2.5	18.00
23230 CC/W33	150	270	96	3.0	1080	1460	137.0	1600	2200	164	256	2.5	24.50
23230 CCK/W33	150	270	96	3.0	1080	1460	137.0	1600	2200	164	256	2.5	24.50
22330 CC/W33	150	320	108	4.0	1460	1760	146.0	1600	2000	167	303	3.0	43.50
22330 CCK/W33	150	320	108	4.0	1460	1760	146.0	1600	2000	167	303	3.0	43.50
23032 CC/W33	160	240	60	2.1	585	880	83.0	2400	3000	171	229	2.0	9.70



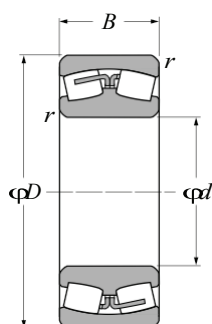
Foro cilindrico
Cylindric hole



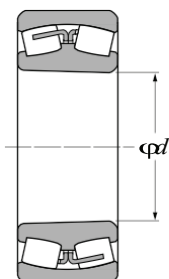
Foro conico 1:12
Conic hole 1:12



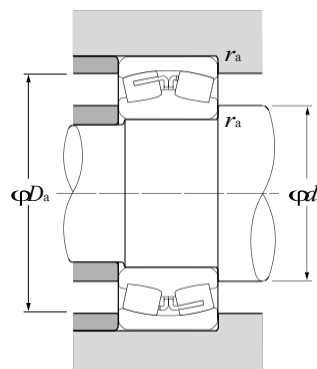
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d_a mm	D_a mm	r_a mm	
23032 CCK/W33	160	240	60	2.1	585	880	83.0	2400	3000	171	229	2.0	9.70
24032 CC/W33	160	240	80	2.1	750	1200	114.0	1700	2400	171	229	2.0	13.00
24032 CCK/W33	160	240	80	2.1	750	1200	114.0	1700	2400	171	229	2.0	13.00
23132 CC/W33	160	270	86	2.1	980	1370	129.0	1900	2400	172	258	2.0	20.50
23132 CCK/W33	160	270	86	2.1	980	1370	129.0	1900	2400	172	258	2.0	20.50
24132 CC/W33	160	270	109	2.1	1180	1760	163.0	1400	1900	172	258	2.0	25.00
24132 CCK/W33	160	270	109	2.1	1180	1760	163.0	1400	1900	172	258	2.0	25.00
22232 CC/W33	160	290	80	3.0	1000	1290	118.0	2000	2800	174	276	2.5	22.50
22232 CCK/W33	160	290	80	3.0	1000	1290	118.0	2000	2800	174	276	2.5	22.50
23232 CC/W33	160	290	104	3.0	1220	1660	153.0	1500	2200	174	276	2.5	31.00
23232 CCK/W33	160	290	104	3.0	1220	1660	153.0	1500	2200	174	276	2.5	31.00
22332 CC/W33	160	340	114	4.0	1600	1960	160.0	1500	1900	177	323	3.0	52.00
22332 CCK/W33	160	340	114	4.0	1600	1960	160.0	1500	1900	177	323	3.0	52.00
23034 CC/W33	170	260	67	2.1	710	1060	100.0	2200	2800	181	249	2.0	13.00
23034 CCK/W33	170	260	67	2.1	710	1060	100.0	2200	2800	181	249	2.0	13.00
24034 CC/W33	170	260	90	2.1	930	1460	137.0	1600	2400	181	249	2.0	17.50
24034 CCK/W33	170	260	90	2.1	930	1460	137.0	1600	2400	181	249	2.0	17.50
23134 CC/W33	170	280	88	2.1	1040	1500	137.0	1800	2400	182	268	2.0	22.00
23134 CCK/W33	170	280	88	2.1	1040	1500	137.0	1800	2400	182	268	2.0	22.00
24134 CC/W33	170	280	109	2.1	1220	1860	170.0	1300	1900	182	268	2.0	27.50
24134 CCK/W33	170	280	109	2.1	1220	1860	170.0	1300	1900	182	268	2.0	27.50
22234 CC/W33	170	310	86	4.0	1120	1460	132.0	1900	2600	187	293	3.0	28.50
22234 CCK/W33	170	310	86	4.0	1120	1460	132.0	1900	2600	187	293	3.0	28.50
23234 CC/W33	170	310	110	4.0	1400	1930	173.0	1400	2000	187	293	3.0	37.50
23234 CCK/W33	170	310	110	4.0	1400	1930	173.0	1400	2000	187	293	3.0	37.50
22334 CC/W33	170	360	120	4.0	1760	2160	176.0	1400	1800	187	343	3.0	61.00
22334 CCK/W33	170	360	120	4.0	1760	2160	176.0	1400	1800	187	343	3.0	61.00
23936 CC/W33	180	250	52	2.0	431	830	76.5	2200	2800	189	241	2.0	7.90
23936 CCK/W33	180	250	52	2.0	431	830	76.5	2200	2800	189	241	2.0	7.90



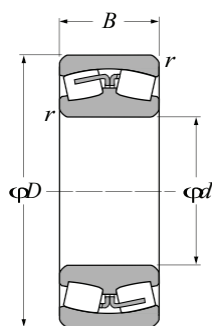
Foro cilindrico
Cylindric hole



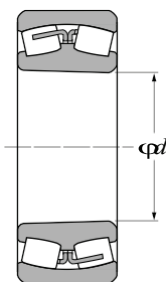
Foro conico 1:12
Conic hole 1:12



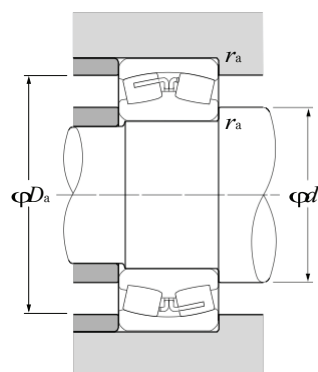
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
23036 CC/W33	180	280	74	2.1	830	1250	114.0	2000	2600	191	269	2.0	17.00
23036 CCK/W33	180	280	74	2.1	830	1250	114.0	2000	2600	191	269	2.0	17.00
24036 CC/W33	180	280	100	2.1	1080	1730	156.0	1500	2200	191	269	2.0	23.00
24036 CCK/W33	180	280	100	2.1	1080	1730	156.0	1500	2200	191	269	2.0	23.00
23136 CC/W33	180	300	96	3.0	1200	1760	160.0	1700	2200	194	286	2.5	28.00
23136 CCK/W33	180	300	96	3.0	1200	1760	160.0	1700	2200	194	286	2.5	28.00
24136 CC/W33	180	300	118	3.0	1400	2160	196.0	1300	1700	194	286	2.5	34.50
24136 CCK/W33	180	300	118	3.0	1400	2160	196.0	1300	1700	194	286	2.5	34.50
22236 CC/W33	180	320	86	4.0	1180	1560	140.0	1800	2600	197	303	3.0	29.50
22236 CCK/W33	180	320	86	4.0	1180	1560	140.0	1800	2600	197	303	3.0	29.50
23236 CC/W33	180	320	112	4.0	1500	2120	186.0	1300	1900	197	303	3.0	39.50
23236 CCK/W33	180	320	112	4.0	1500	2120	186.0	1300	1900	197	303	3.0	39.50
22336 CC/W33	180	380	126	4.0	2000	2450	193.0	1300	1700	197	363	3.0	71.50
22336 CCK/W33	180	380	126	4.0	2000	2450	193.0	1300	1700	197	363	3.0	71.50
23938 CC/W33	190	260	52	2.0	414	800	76.5	2200	2600	199	251	2.0	8.30
23938 CCK/W33	190	260	52	2.0	414	800	76.5	2200	2600	199	251	2.0	8.30
23038 CC/W33	190	290	75	2.1	865	1340	122.0	1900	2400	201	279	2.0	18.00
23038 CCK/W33	190	290	75	2.1	865	1340	122.0	1900	2400	201	279	2.0	18.00
24038 CC/W33	190	290	100	2.1	1120	1800	163.0	1400	2000	201	279	2.0	24.50
24038 CCK/W33	190	290	100	2.1	1120	1800	163.0	1400	2000	201	279	2.0	24.50
23138 CC/W33	190	320	104	3.0	1370	2080	183.0	1500	2000	204	306	2.5	35.00
23138 CCK/W33	190	320	104	3.0	1370	2080	183.0	1500	2000	204	306	2.5	35.00
24138 CC/W33	190	320	128	3.0	1600	2500	212.0	1200	1600	204	306	2.5	43.00
24138 CCK/W33	190	320	128	3.0	1600	2500	212.0	1200	1600	204	306	2.5	43.00
22238 CC/W33	190	340	92	4.0	1270	1700	150.0	1700	2400	207	323	3.0	36.50
22238 CCK/W33	190	340	92	4.0	1270	1700	150.0	1700	2400	207	323	3.0	36.50
23238 CC/W33	190	340	120	4.0	1660	2400	208.0	1300	1800	207	323	3.0	48.00
23238 CCK/W33	190	340	120	4.0	1660	2400	208.0	1300	1800	207	323	3.0	48.00
22338 CC/W33	190	400	132	5.0	2120	2650	208.0	1200	1600	210	380	4.0	82.50



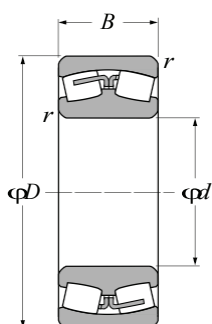
Foro cilindrico
Cylindric hole



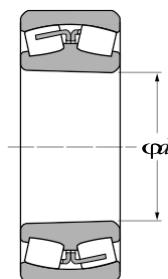
Foro conico 1:12
Conic hole 1:12



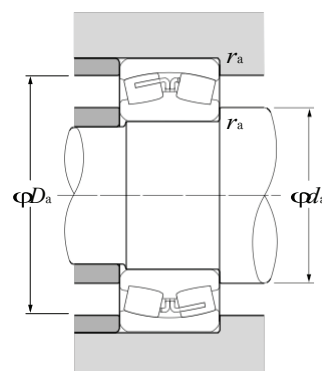
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
22338 CCK/W33	190	400	132	5.0	2120	2650	208.0	1200	1600	210	380	4.0	82.50
23940 CC/W33	200	280	60	2.1	546	1040	93.0	2000	2400	211	269	2.0	11.50
23940 CCK/W33	200	280	60	2.1	546	1040	93.0	2000	2400	211	269	2.0	11.50
23040 CC/W33	200	310	82	2.1	1000	1530	137.0	1800	2200	211	299	2.0	23.30
23040 CCK/W33	200	310	82	2.1	1000	1530	137.0	1800	2200	211	299	2.0	23.30
24040 CC/W33	200	310	109	2.1	1290	2120	186.0	1300	1900	211	299	2.0	31.00
24040 CCK/W33	200	310	109	2.1	1290	2120	186.0	1300	1900	211	299	2.0	31.00
23140 CC/W33	200	340	112	3.0	1600	2360	204.0	1500	1900	214	326	2.5	43.00
23140 CCK/W33	200	340	112	3.0	1600	2360	204.0	1500	1900	214	326	2.5	43.00
24140 CC/W33	200	340	140	3.0	1800	2800	232.0	1100	1500	214	326	2.5	53.50
24140 CCK/W33	200	340	140	3.0	1800	2800	232.0	1100	1500	214	326	2.5	53.50
22240 CC/W33	200	360	98	4.0	1460	1930	166.0	1600	2200	217	343	3.0	43.50
22240 CCK/W33	200	360	98	4.0	1460	1930	166.0	1600	2200	217	343	3.0	43.50
23240 CC/W33	200	360	128	4.0	1860	2700	228.0	1200	1700	217	343	3.0	58.00
23240 CCK/W33	200	360	128	4.0	1860	2700	228.0	1200	1700	217	343	3.0	58.00
22340 CC/W33	200	420	138	5.0	2320	2900	224.0	1200	1500	220	400	4.0	95.00
22340 CCK/W33	200	420	138	5.0	2320	2900	224.0	1200	1500	220	400	4.0	95.00
23944 CC/W33	220	300	60	2.1	546	1080	93.0	1900	2200	231	289	2.0	12.50
23944 CCK/W33	220	300	60	2.1	546	1080	93.0	1900	2200	231	289	2.0	12.50
23044 CC/W33	220	340	90	3.0	1220	1860	163.0	1600	2000	233	327	2.5	30.50
23044 CCK/W33	220	340	90	3.0	1220	1860	163.0	1600	2000	233	327	2.5	30.50
24044 CC/W33	220	340	118	3.0	1560	2600	212.0	1200	1700	233	327	2.5	40.00
24044 CCK/W33	220	340	118	3.0	1560	2600	212.0	1200	1700	233	327	2.5	40.00
23144 CC/W33	220	370	120	4.0	1800	2750	232.0	1300	1700	237	353	3.0	53.50
23144 CCK/W33	220	370	120	4.0	1800	2750	232.0	1300	1700	237	353	3.0	53.50
24144 CC/W33	220	370	150	4.0	2120	3350	285.0	1000	1400	237	353	3.0	67.00
24144 CCK/W33	220	370	150	4.0	2120	3350	285.0	1000	1400	237	353	3.0	67.00
22244 CC/W33	220	400	108	4.0	1760	2360	196.0	1500	2000	237	383	3.0	60.50
22244 CCK/W33	220	400	108	4.0	1760	2360	196.0	1500	2000	237	383	3.0	60.50



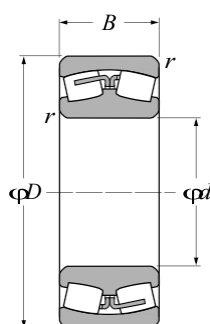
Foro cilindrico
Cylindric hole



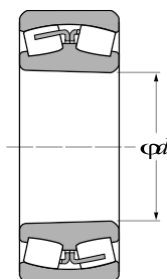
Foro conico 1:12
Conic hole 1:12



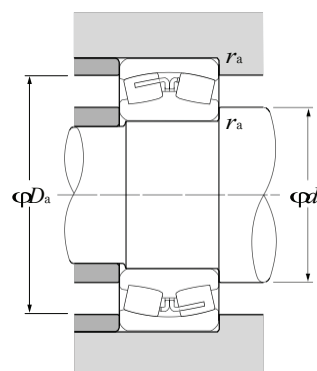
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
23244 CC/W33	220	400	144	4.0	2360	3450	285.0	1100	1500	237	383	3.0	81.50
23244 CCK/W33	220	400	144	4.0	2360	3450	285.0	1100	1500	237	383	3.0	81.50
22344 CC/W33	220	460	145	5.0	2700	3450	260.0	1000	1400	240	440	4.0	120.00
22344 CCK/W33	220	460	145	5.0	2700	3450	260.0	1000	1400	240	440	4.0	120.00
23948 CC/W33	240	320	60	2.1	564	1160	98.0	1700	2000	251	309	2.0	13.50
23948 CCK/W33	240	320	60	2.1	564	1160	98.0	1700	2000	251	309	2.0	13.50
23048 CC/W33	240	360	92	3.0	1290	2080	176.0	1500	1900	253	347	2.5	33.50
23048 CCK/W33	240	360	92	3.0	1290	2080	176.0	1500	1900	253	347	2.5	33.50
24048 CC/W33	240	360	118	3.0	1600	2700	228.0	1100	1600	253	347	2.5	43.00
24048 CCK/W33	240	360	118	3.0	1600	2700	228.0	1100	1600	253	347	2.5	43.00
23148 CC/W33	240	400	128	4.0	2080	3200	255.0	1200	1600	257	383	3.0	66.50
23148 CCK/W33	240	400	128	4.0	2080	3200	255.0	1200	1600	257	383	3.0	66.50
24148 CC/W33	240	400	160	4.0	2400	3900	320.0	900	1300	257	383	3.0	83.00
24148 CCK/W33	240	400	160	4.0	2400	3900	320.0	900	1300	257	383	3.0	83.00
22248 CC/W33	240	440	120	4.0	2200	3000	245.0	1300	1800	257	423	3.0	83.00
22248 CCK/W33	240	440	120	4.0	2200	3000	245.0	1300	1800	257	423	3.0	83.00
23248 CC/W33	240	440	160	4.0	2900	4300	345.0	950	1300	257	423	3.0	110.00
23248 CCK/W33	240	440	160	4.0	2900	4300	345.0	950	1300	257	423	3.0	110.00
22348 CC/W33	240	500	155	5.0	3100	4000	290.0	950	1300	260	480	4.0	155.00
22348 CCK/W33	240	500	155	5.0	3100	4000	290.0	950	1300	260	480	4.0	155.00
23952 CC/W33	260	360	75	2.1	880	1800	156.0	1500	1900	271	349	2.0	23.50
23952 CCK/W33	260	360	75	2.1	880	1800	156.0	1500	1900	271	349	2.0	23.50
23052 CC/W33	260	400	104	4.0	1600	2550	212.0	1300	1700	275	385	3.0	48.50
23052 CCK/W33	260	400	104	4.0	1600	2550	212.0	1300	1700	275	385	3.0	48.50
24052 CC/W33	260	400	140	4.0	2040	3450	285.0	1000	1400	275	385	3.0	65.50
24052 CCK/W33	260	400	140	4.0	2040	3450	285.0	1000	1400	275	385	3.0	65.50
23152 CC/W33	260	440	144	4.0	2550	3900	290.0	1100	1400	277	423	3.0	90.50
23152 CCK/W33	260	440	144	4.0	2550	3900	290.0	1100	1400	277	423	3.0	90.50
24152 CC/W33	260	440	180	4.0	3000	4800	380.0	850	1200	277	423	3.0	110.00



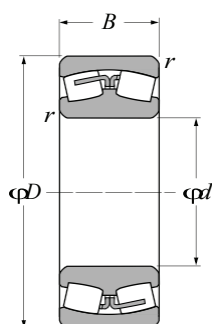
Foro cilindrico
Cylindric hole



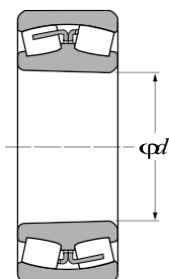
Foro conico 1:12
Conic hole 1:12



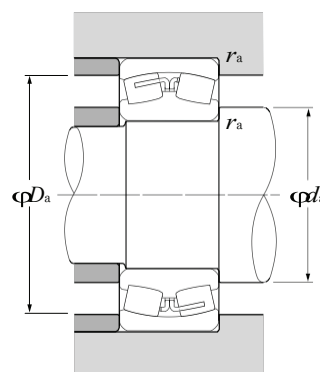
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	d _a mm	D _a mm	r _a mm	
24152 CCK/W33	260	440	180	4.0	3000	4800	380.0	850	1200	277	423	3.0	110.00
22252 CC/W33	260	480	130	5.0	2650	3550	285.0	1200	1600	280	460	4.0	110.00
22252 CCK/W33	260	480	130	5.0	2650	3550	285.0	1200	1600	280	460	4.0	110.00
23252 CC/W33	260	480	174	5.0	3250	4750	360.0	850	1200	280	460	4.0	140.00
23252 CCK/W33	260	480	174	5.0	3250	4750	360.0	850	1200	280	460	4.0	140.00
22352 CC/W33	260	540	165	6.0	3550	4550	325.0	850	1100	286	514	5.0	190.00
22352 CCK/W33	260	540	165	6.0	3550	4550	325.0	850	1100	286	514	5.0	190.00
23956 CC/W33	280	380	75	2.1	845	1760	143.0	1400	1700	291	369	2.0	25.00
23956 CCK/W33	280	380	75	2.1	845	1760	143.0	1400	1700	291	369	2.0	25.00
23056 CC/W33	280	420	106	4.0	1730	2850	224.0	1300	1600	295	405	3.0	52.50
23056 CCK/W33	280	420	106	4.0	1730	2850	224.0	1300	1600	295	405	3.0	52.50
24056 CC/W33	280	420	140	4.0	2160	3800	285.0	950	1400	295	405	3.0	69.50
24056 CCK/W33	280	420	140	4.0	2160	3800	285.0	950	1400	295	405	3.0	69.50
23156 CC/W33	280	460	146	5.0	2650	4250	335.0	1000	1300	300	440	4.0	97.00
23156 CCK/W33	280	460	146	5.0	2650	4250	335.0	1000	1300	300	440	4.0	97.00
24156 CC/W33	280	460	180	5.0	3100	5100	415.0	800	1100	300	440	4.0	120.00
24156 CCK/W33	280	460	180	5.0	3100	5100	415.0	800	1100	300	440	4.0	120.00
22256 CC/W33	280	500	130	5.0	2700	3750	300.0	1100	1500	300	480	4.0	115.00
22256 CCK/W33	280	500	130	5.0	2700	3750	300.0	1100	1500	300	480	4.0	115.00
23256 CC/W33	280	500	176	5.0	3250	4900	365.0	800	1100	300	480	4.0	150.00
23256 CCK/W33	280	500	176	5.0	3250	4900	365.0	800	1100	300	480	4.0	150.00
22356 CC/W33	280	580	175	6.0	4000	5200	365.0	800	1100	306	554	5.0	235.00
22356 CCK/W33	280	580	175	6.0	4000	5200	365.0	800	1100	306	554	5.0	235.00
23860 CAMA	300	380	60	2.1	656	1600	137.0	1400	1700	311	369	2.0	16.50
23860 CAKMA	300	380	60	2.1	656	1600	137.0	1400	1700	311	369	2.0	16.50
23960 CC/W33	300	420	90	3.0	1200	2500	200.0	1300	1600	313	407	2.5	39.50
23960 CCK/W33	300	420	90	3.0	1200	2500	200.0	1300	1600	313	407	2.5	39.50
23060 CC/W33	300	460	118	4.0	2120	3450	265.0	1200	1500	315	445	3.0	71.50
23060 CCK/W33	300	460	118	4.0	2120	3450	265.0	1200	1500	315	445	3.0	71.50



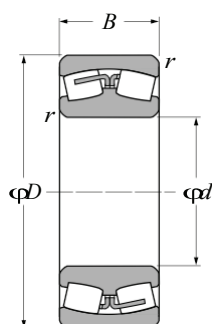
Foro cilindrico
Cylindric hole



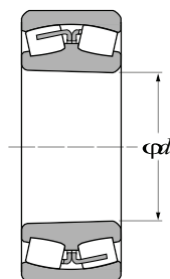
Foro conico 1:12
Conic hole 1:12



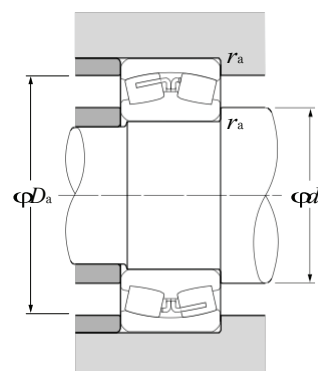
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
24060 CC/W33	300	460	160	4.0	2700	4750	355.0	850	1200	315	445	3.0	97.00
24060 CCK/W33	300	460	160	4.0	2700	4750	355.0	850	1200	315	445	3.0	97.00
23160 CC/W33	300	500	160	5.0	3200	5100	380.0	950	1200	320	480	4.0	125.00
23160 CCK/W33	300	500	160	5.0	3200	5100	380.0	950	1200	320	480	4.0	125.00
24160 CC/W33	300	500	200	5.0	3750	6300	465.0	700	1000	320	480	4.0	160.00
24160 CCK/W33	300	500	200	5.0	3750	6300	465.0	700	1000	320	480	4.0	160.00
22260 CC/W33	300	540	140	5.0	3150	4250	325.0	1000	1400	320	520	4.0	145.00
22260 CCK/W33	300	540	140	5.0	3150	4250	325.0	1000	1400	320	520	4.0	145.00
23260 CC/W33	300	540	192	5.0	3900	5850	425.0	750	1000	320	520	4.0	190.00
23260 CCK/W33	300	540	192	5.0	3900	5850	425.0	750	1000	320	520	4.0	190.00
23964 CC/W33	320	440	90	3.0	1430	2700	212.0	1400	1500	333	427	2.5	42.00
23964 CCK/W33	320	440	90	3.0	1430	2700	212.0	1400	1500	333	427	2.5	42.00
23064 CC/W33	320	480	121	4.0	2240	3800	285.0	1100	1400	335	465	3.0	78.00
23064 CCK/W33	320	480	121	4.0	2240	3800	285.0	1100	1400	335	465	3.0	78.00
24064 CC/W33	320	480	160	4.0	2850	5100	400.0	800	1200	335	465	3.0	100.00
24064 CCK/W33	320	480	160	4.0	2850	5100	400.0	800	1200	335	465	3.0	100.00
23164 CC/W33	320	540	176	5.0	3750	6000	440.0	850	1100	340	520	4.0	165.00
23164 CCK/W33	320	540	176	5.0	3750	6000	440.0	850	1100	340	520	4.0	165.00
24164 CC/W33	320	540	218	5.0	4250	7100	510.0	670	900	340	520	4.0	210.00
24164 CCK/W33	320	540	218	5.0	4250	7100	510.0	670	900	340	520	4.0	210.00
22264 CC/W33	320	580	150	5.0	3600	4900	375.0	950	1300	340	560	4.0	175.00
22264 CCK/W33	320	580	150	5.0	3600	4900	375.0	950	1300	340	560	4.0	175.00
23264 CC/W33	320	580	208	5.0	4400	6700	480.0	700	950	340	560	4.0	240.00
23264 CCK/W33	320	580	208	5.0	4400	6700	480.0	700	950	340	560	4.0	240.00
23968 CC/W33	340	460	90	3.0	1460	2800	216.0	1300	1400	353	447	2.5	45.50
23968 CCK/W33	340	460	90	3.0	1460	2800	216.0	1300	1400	353	447	2.5	45.50
23068 CC/W33	340	520	133	5.0	2700	4550	335.0	1000	1300	358	502	4.0	105.00
23068 CCK/W33	340	520	133	5.0	2700	4550	335.0	1000	1300	358	502	4.0	105.00
24068 CC/W33	340	520	180	5.0	3450	6200	475.0	750	1100	358	502	4.0	140.00



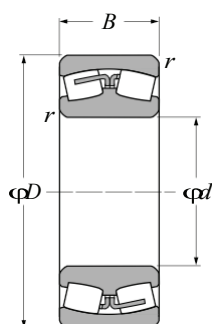
Foro cilindrico
Cylindric hole



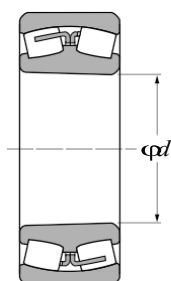
Foro conico 1:12
Conic hole 1:12



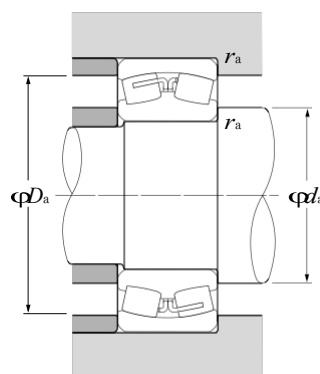
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
24068 CCK/W33	340	520	180	5.0	3450	6200	475.0	750	1100	358	502	4.0	140.00
23168 CC/W33	340	580	190	5.0	4250	6800	480.0	800	1000	360	560	4.0	210.00
23168 CCK/W33	340	580	190	5.0	4250	6800	480.0	800	1000	360	560	4.0	210.00
24168 ECCJ/W33	340	580	243	5.0	5300	8650	630.0	600	850	360	560	4.0	280.00
24168 ECCKJ/W33	340	580	243	5.0	5300	8650	630.0	600	850	360	560	4.0	280.00
23268 CA/W33	340	620	224	6.0	5100	7800	550.0	560	800	366	594	5.0	295.00
23268 CAK/W33	340	620	224	6.0	5100	7800	550.0	560	800	366	594	5.0	295.00
23972 CC/W33	360	480	90	3.0	1400	2750	220.0	1200	1300	373	467	2.5	46.00
23972 CCK/W33	360	480	90	3.0	1400	2750	220.0	1200	1300	373	467	2.5	46.00
23072 CC/W33	360	540	134	5.0	2750	4800	345.0	950	1200	378	522	4.0	110.00
23072 CCK/W33	360	540	134	5.0	2750	4800	345.0	950	1200	378	522	4.0	110.00
24072 CC/W33	360	540	180	5.0	3550	6550	490.0	700	1000	378	522	4.0	145.00
24072 CCK/W33	360	540	180	5.0	3550	6550	490.0	700	1000	378	522	4.0	145.00
23172 CC/W33	360	600	192	5.0	4300	6950	490.0	750	1000	380	580	4.0	220.00
23172 CCK/W33	360	600	192	5.0	4300	6950	490.0	750	1000	380	580	4.0	220.00
24172 EECJ/W33	360	600	243	5.0	5600	9300	670.0	560	800	380	580	4.0	280.00
24172 ECCKJ/W33	360	600	243	5.0	5600	9300	670.0	560	800	380	580	4.0	280.00
22272 CA/W33	360	650	170	6.0	4300	6200	440.0	630	850	386	624	5.0	255.00
22272 CAK/W33	360	650	170	6.0	4300	6200	440.0	630	850	386	624	5.0	255.00
23272 CA/W33	360	650	232	6.0	5400	8300	570.0	530	750	386	624	5.0	335.00
23272 CAK/W33	360	650	232	6.0	5400	8300	570.0	530	750	386	624	5.0	335.00
23976 CC/W33	380	520	106	4.0	1960	3800	285.0	1100	1200	395	505	3.0	69.00
23976 CCK/W33	380	520	106	4.0	1960	3800	285.0	1100	1200	395	505	3.0	69.00
23076 CC/W33	380	560	135	5.0	2900	5000	360.0	900	1200	398	542	4.0	115.00
23076 CCK/W33	380	560	135	5.0	2900	5000	360.0	900	1200	398	542	4.0	115.00
24076 CC/W33	380	560	180	5.0	3600	6800	480.0	670	950	398	542	4.0	150.00
24076 CCK/W33	380	560	180	5.0	3600	6800	480.0	670	950	398	542	4.0	150.00
23176 CA/W33	380	620	194	5.0	4400	7100	500.0	560	1000	400	600	4.0	230.00
23176 CAK/W33	380	620	194	5.0	4400	7100	500.0	560	1000	400	600	4.0	230.00



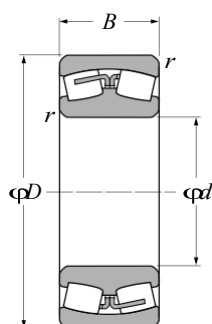
Foro cilindrico
Cylindric hole



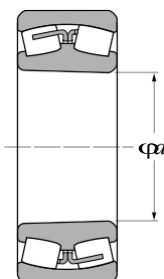
Foro conico 1:12
Conic hole 1:12



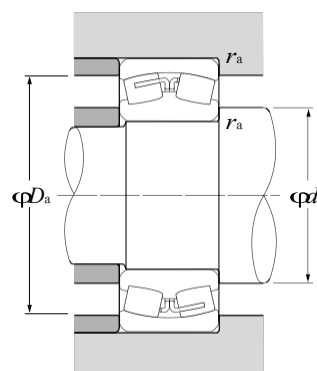
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
24176 ECA/W33	380	620	243	5.0	5700	9800	710.0	480	850	400	600	4.0	300.0
24176 ECAK/W33	380	620	243	5.0	5700	9800	710.0	480	850	400	600	4.0	300.0
23276 CA/W33	380	680	240	6.0	5850	9150	620.0	500	750	406	654	5.0	375.0
23276 CAK/W33	380	680	240	6.0	5850	9150	620.0	500	750	406	654	5.0	375.0
23980 CC/W33	400	540	106	4.0	2000	3900	290.0	1100	1200	415	525	3.0	71.0
23980 CCK/W33	400	540	106	4.0	2000	3900	290.0	1100	1200	415	525	3.0	71.0
23080 CC/W33	400	600	148	5.0	3250	5700	400.0	850	1100	418	582	4.0	150.0
23080 CCK/W33	400	600	148	5.0	3250	5700	400.0	850	1100	418	582	4.0	150.0
24080 ECCJ/W33	400	600	200	5.0	4300	8000	560.0	630	900	418	582	4.0	205.0
24080 EECKJ/W33	400	600	200	5.0	4300	8000	560.0	630	900	418	582	4.0	205.0
23180 CA/W33	400	650	200	6.0	4650	7650	530.0	530	950	426	624	5.0	265.0
23180 CAK/W33	400	650	200	6.0	4650	7650	530.0	530	950	426	624	5.0	265.0
24180 ECA/W33	400	650	250	6.0	6200	10600	735.0	430	800	426	624	5.0	340.0
24180 ECAK/W33	400	650	250	6.0	6200	10600	735.0	430	800	426	624	5.0	340.0
23280 CA/W33	400	720	256	6.0	6550	10400	680.0	480	670	426	694	5.0	450.0
23280 CAK/W33	400	720	256	6.0	6550	10400	680.0	480	670	426	694	5.0	450.0
22380 CA/W33	400	820	243	7.5	7500	10400	670.0	430	750	432	788	6.0	650.0
22380 CAK/W33	400	820	243	7.5	7500	10400	670.0	430	750	432	788	6.0	650.0
23984 CC/W33	420	560	106	4.0	2040	4150	300.0	1000	1100	435	545	3.0	74.5
23984 CCK/W33	420	560	106	4.0	2040	4150	300.0	1000	1100	435	545	3.0	74.5
23084 CA/W33	420	620	150	5.0	3400	6000	415.0	600	1100	438	602	4.0	155.0
23084 CAK/W33	420	620	150	5.0	3400	6000	415.0	600	1100	438	602	4.0	155.0
24084 ECA/W33	420	620	200	5.0	4400	8300	585.0	530	900	438	602	4.0	210.0
24084 ECAK/W33	420	620	200	5.0	4400	8300	585.0	530	900	438	602	4.0	210.0
23184 CC/W33	420	700	224	6.0	5600	9300	620.0	480	900	446	674	5.0	350.0
23184 CCK/W33	420	700	224	6.0	5600	9300	620.0	480	900	446	674	5.0	350.0
24184 ECA/W33	420	700	280	6.0	7350	12600	850.0	400	700	446	674	5.0	445.0
24184 ECAK/W33	420	700	280	6.0	7350	12600	850.0	400	700	446	674	5.0	445.0
23284 CA/W33	420	760	272	7.5	7350	11600	765.0	450	630	452	728	6.0	535.0



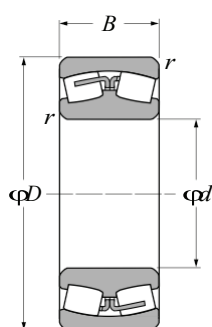
Foro cilindrico
Cylindric hole



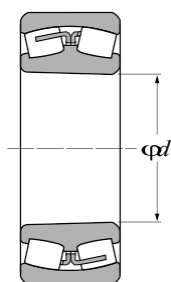
Foro conico 1:12
Conic hole 1:12



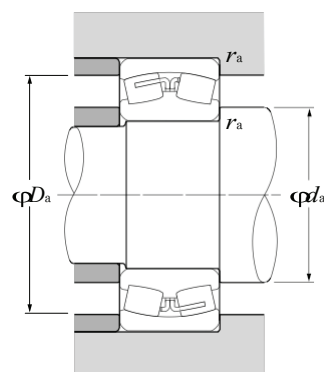
Codice Code	Dimensioni - Dimensions				Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	B mm	r min	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
23284 CAK/W33	420	760	272	7.5	7350	11600	765.0	450	630	452	728	6.0	535.0
23988 CC/W33	440	600	118	4.0	2450	4900	345.0	950	1000	455	585	3.0	99.5
23988 CCK/W33	440	600	118	4.0	2450	4900	345.0	950	1000	455	585	3.0	99.5
23088 CA/W33	440	650	157	6.0	3650	6550	450.0	560	1000	463	627	5.0	180.0
23088 CAK/W33	440	650	157	6.0	3650	6550	450.0	560	1000	463	627	5.0	180.0
24088 ECA/W33	440	650	212	6.0	4800	9150	630.0	500	850	463	627	5.0	245.0
24088 ECAK/W33	440	650	212	6.0	4800	9150	630.0	500	850	463	627	5.0	245.0
23188 CA/W33	440	720	226	6.0	6000	10000	670.0	450	850	466	694	5.0	360.0
23188 CAK/W33	440	720	226	6.0	6000	10000	670.0	450	850	466	694	5.0	360.0
24188 ECA/W33	440	720	280	6.0	7500	13200	900.0	400	700	466	694	5.0	460.0
24188 ECAK/W33	440	720	280	6.0	7500	13200	900.0	400	700	466	694	5.0	460.0
23288 CA/W33	440	790	280	7.5	7800	12500	800.0	430	600	472	758	6.0	590.0
23288 CAK/W33	440	790	280	7.5	7800	12500	800.0	430	600	472	758	6.0	590.0
23992 CA/W33	460	620	118	4.0	2500	5000	355.0	600	1000	475	605	3.0	105.0
23992 CAK/W33	460	620	118	4.0	2500	5000	355.0	600	1000	475	605	3.0	105.0
23092 CA/W33	460	680	163	6.0	3900	6950	465.0	560	950	483	657	5.0	205.0
23092 CAK/W33	460	680	163	6.0	3900	6950	465.0	560	950	483	657	5.0	205.0
24092 ECA/W33	460	680	218	6.0	5200	10000	670.0	480	800	483	657	5.0	275.0
24092 ECAK/W33	460	680	218	6.0	5200	10000	670.0	480	800	483	657	5.0	275.0
23192 CA/W33	460	760	240	7.5	6400	10800	680.0	430	800	492	728	6.0	440.0
23192 CAK/W33	460	760	240	7.5	6400	10800	680.0	430	800	492	728	6.0	440.0
24192 ECA/W33	460	760	300	7.5	8300	14600	1000.0	360	670	492	728	6.0	560.0
24192 ECAK/W33	460	760	300	7.5	8300	14600	1000.0	360	670	492	728	6.0	560.0
23292 CA/W33	460	830	296	7.5	8500	13700	880.0	400	560	492	798	6.0	695.0
23292 CA/W33	460	830	296	7.5	8500	13700	880.0	400	560	492	798	6.0	695.0
23996 CA/W33	480	650	128	5.0	2900	5700	405.0	560	1000	498	632	4.0	125.0
23996 CAK/W33	480	650	128	5.0	2900	5700	405.0	560	1000	498	632	4.0	125.0
23096 CA/W33	480	700	165	6.0	3900	6800	450.0	530	950	503	677	5.0	215.0
23096 CAK/W33	480	700	165	6.0	3900	6800	450.0	530	950	503	677	5.0	215.0



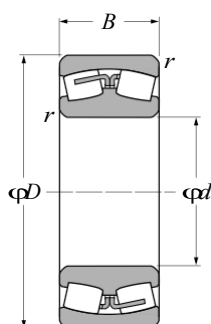
Foro cilindrico
Cylindric hole



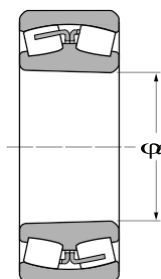
Foro conico 1:12
Conic hole 1:12



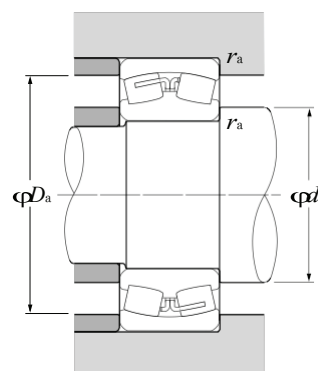
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
24096 ECA/W33	480	700	218	6.0	5300	10400	695	450	750	503	677	5.0	285.0
24096 ECAK/W33	480	700	218	6.0	5300	10400	695	450	750	503	677	5.0	285.0
23196 CA/W33	480	790	248	7.5	6950	12000	780	400	750	512	758	6.0	485.0
23196 CAK/W33	480	790	248	7.5	6950	12000	780	400	750	512	758	6.0	485.0
24196 ECA/W33	480	790	308	7.5	9000	15600	1040	340	630	512	758	6.0	605.0
24196 ECAK/W33	480	790	308	7.5	9000	15600	1040	340	630	512	758	6.0	605.0
23296 CA/W33	480	790	308	7.5	9300	15000	950	380	530	512	838	6.0	800.0
23296 CAK/W33	480	790	308	7.5	9300	15000	950	380	530	512	838	6.0	800.0
239/500 CA/W33	500	670	128	5.0	2900	6000	415	530	950	518	652	4.0	130.0
239/500 CAK/W33	500	670	128	5.0	2900	6000	415	530	950	518	652	4.0	130.0
230/500 CA/W33	500	720	167	6.0	4150	7800	510	500	900	523	697	5.0	225.0
230/500 CAK/W33	500	720	167	6.0	4150	7800	510	500	900	523	697	5.0	225.0
240/500 ECA/W33	500	720	218	6.0	5500	11000	735	430	700	523	697	5.0	295.0
240/500 ECAK/W33	500	720	218	6.0	5500	11000	735	430	700	523	697	5.0	295.0
231/500 CA/W33	500	830	264	7.5	7650	12900	830	380	700	532	798	6.0	580.0
231/500 CAK/W33	500	830	264	7.5	7650	12900	830	380	700	532	798	6.0	580.0
241/500 ECA/W33	500	830	325	7.5	9800	17000	1120	320	600	532	798	6.0	700.0
241/500 ECAK/W33	500	830	325	7.5	9800	17000	1120	320	600	532	798	6.0	700.0
232/500 CA/W33	500	920	336	7.5	10600	17300	1060	360	500	536	888	6.0	985.0
232/500 CAK/W33	500	920	336	7.5	10600	17300	1060	360	500	536	888	6.0	985.0
239/530 CA/W33	530	710	136	5.0	3200	6700	480	500	900	548	692	4.0	155.0
239/530 CAK/W33	530	710	136	5.0	3200	6700	480	500	900	548	692	4.0	155.0
230/530 CA/W33	530	780	185	6.0	5100	9300	630	450	800	553	757	5.0	310.0
230/530 CAK/W33	530	780	185	6.0	5100	9300	630	450	800	553	757	5.0	310.0
240/530 ECA/W33	530	780	250	6.0	6700	13200	830	400	670	553	757	5.0	410.0
240/530 ECAK/W33	530	780	250	6.0	6700	13200	830	400	670	553	757	5.0	410.0
231/530 CA/W33	530	870	272	7.5	8150	14000	915	360	670	562	838	6.0	645.0
231/530 CAK/W33	530	870	272	7.5	8150	14000	915	360	670	562	838	6.0	645.0
241/530 ECA/W33	530	870	335	7.5	10600	19000	1220	300	560	562	838	6.0	830.0



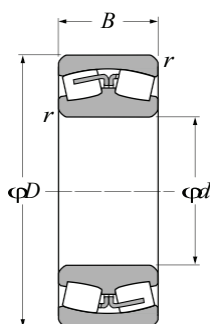
Foro cilindrico
Cylindric hole



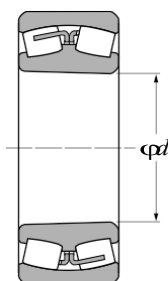
Foro conico 1:12
Conic hole 1:12



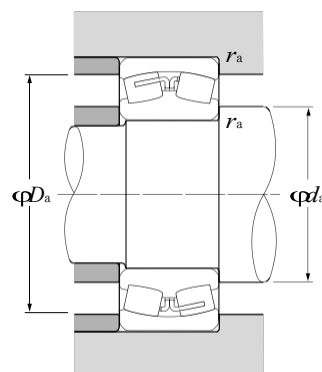
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
241/530 ECAK/W33	530	870	335	7.5	10600	19000	1220	300	560	562	838	6.0	830.0
232/530 CA/W33	530	980	355	9.5	11100	20400	1220	300	480	570	940	8.0	1200.0
232/530 CAK/W33	530	980	355	9.5	11100	20400	1220	300	480	570	940	8.0	1200.0
239/560 CA/W33	560	750	140	5.0	3450	7200	510	450	850	578	732	4.0	175.0
239/560 CAK/W33	560	750	140	5.0	3450	7200	510	450	850	578	732	4.0	175.0
230/560 CA/W33	560	820	195	6.0	5600	10200	680	430	750	583	797	5.0	355.0
230/560 CAK/W33	560	820	195	6.0	5600	10200	680	430	750	583	797	5.0	355.0
240/560 ECA/W33	560	820	258	6.0	7350	14600	960	380	630	583	797	5.0	465.0
240/560 ECAK/W33	560	820	258	6.0	7350	14600	960	380	630	583	797	5.0	465.0
231/560 CA/W33	560	920	280	7.5	9150	16000	980	340	630	592	888	6.0	740.0
231/560 CAK/W33	560	920	280	7.5	9150	16000	980	340	630	592	888	6.0	740.0
241/560 ECJ/W33	560	920	355	7.5	12000	21600	1340	280	500	592	888	6.0	985.0
241/560 ECJK/W33	560	920	355	7.5	12000	21600	1340	280	500	592	888	6.0	985.0
232/560 CA/W33	560	1030	365	9.5	11500	22000	1400	280	430	600	990	8.0	1350.0
232//560 CAK/W33	560	1030	365	9.5	11500	22000	1400	280	430	600	990	8.0	1350.0
239/600 CA/W33	600	800	150	5.0	3900	8300	585	430	750	618	782	4.0	220.0
239/600 CAK/W33	600	800	150	5.0	3900	8300	585	430	750	618	782	4.0	220.0
230/600 CA/W33	600	870	200	6.0	6000	11400	750	400	700	623	847	5.0	405.0
230/600 CAK/W33	600	870	200	6.0	6000	11400	750	400	700	623	847	5.0	405.0
240/600 ECA/W33	600	870	272	6.0	8150	17000	1100	340	560	623	847	5.0	520.0
240/600 ECAK/W33	600	870	272	6.0	8150	17000	1100	340	560	623	847	5.0	520.0
231/600 CA/W33	600	980	300	7.5	10200	18000	1100	320	560	632	948	6.0	895.0
231/600 CAK/W33	600	980	300	7.5	10200	18000	1100	320	560	632	948	6.0	895.0
241/600 ECA/W33	600	980	375	7.5	11500	23600	1460	240	480	632	948	6.0	1200.0
241/600 ECAK/W33	600	980	375	7.5	11500	23600	1460	240	480	632	948	6.0	1200.0
232/600 CA/W33	600	1090	388	9.5	13100	25500	1560	260	400	640	1050	8.0	1600.0
232/600 CA/W33	600	1090	388	9.5	13100	25500	1560	260	400	640	1050	8.0	1600.0
239/630 CA/W33	630	850	165	6.0	4650	9800	640	400	700	653	827	5.0	280.0
239/630 CAK/W33	630	850	165	6.0	4650	9800	640	400	700	653	827	5.0	280.0



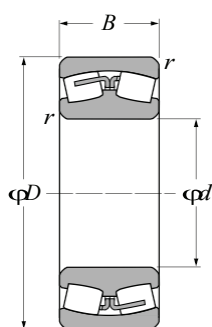
Foro cilindrico
Cylindric hole



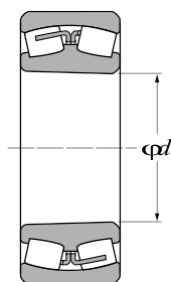
Foro conico 1:12
Conic hole 1:12



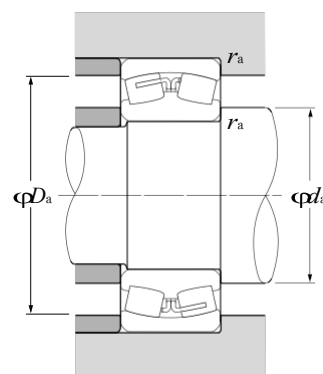
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
230/630 CA/W33	630	920	212	7.5	6700	12500	800	380	670	658	892	6.0	485.0
230/630 CAK/W33	630	920	212	7.5	6700	12500	800	380	670	658	892	6.0	485.0
240/630 ECJ/W33	630	920	290	7.5	8800	18000	1140	320	530	658	892	6.0	645.0
240/630 ECJK/W33	630	920	290	7.5	8800	18000	1140	320	530	658	892	6.0	645.0
231/630 CA/W33	630	1030	315	7.5	10500	20800	1220	260	530	662	998	6.0	1050.0
231/630 CAK/W33	630	1030	315	7.5	10500	20800	1220	260	530	662	998	6.0	1050.0
241/630 ECA/W33	630	1030	400	7.5	12700	27000	1630	220	450	662	998	6.0	1400.0
241/630 ECAK/W33	630	1030	400	7.5	12700	27000	1630	220	450	662	998	6.0	1400.0
239/670 CA/W33	670	900	170	6.0	5000	10800	695	360	670	693	877	5.0	315.0
239/670 CAK/W33	670	900	170	6.0	5000	10800	695	360	670	693	877	5.0	315.0
230/670 CA/W33	670	980	230	7.5	7650	14600	915	340	600	698	952	6.0	600.0
230/670 CAK/W33	670	980	230	7.5	7650	14600	915	340	600	698	952	6.0	600.0
240/670 ECA/W33	670	980	308	7.5	10000	20400	1320	300	500	698	952	6.0	790.0
240/670 ECAK/W33	670	980	308	7.5	10000	20400	1320	300	500	6698	952	6.0	790.0
231/670 CA/W33	670	1090	336	7.5	10900	22400	1370	240	500	702	1058	6.0	1250.0
231/670 CAK/W33	670	1090	336	7.5	10900	22400	1370	240	500	702	1058	6.0	1250.0
241/670 ECA/W33	670	1090	412	7.5	13800	29000	1760	200	400	702	1058	6.0	1600.0
241/670 ECAK/W33	670	1090	412	7.5	13800	29000	1760	200	400	702	1058	6.0	1600.0
232/670 CA/W33	670	1220	438	12.0	15400	30500	1700	220	360	718	1172	10.0	2270.0
232/670 CAK/W33	670	1220	438	12.0	15400	30500	1700	220	360	718	1172	10.0	2270.0
239/710 CA/W33	710	950	180	6.0	5600	12000	765	340	600	733	927	5.0	365.0
239/710 CAK/W33	710	950	180	6.0	5600	12000	765	340	600	733	927	5.0	365.0
249/710 CA/W33	710	950	243	6.0	6800	15600	930	300	500	733	927	5.0	495.0
249/710 CAK/W33	710	950	243	6.0	6800	15600	930	300	500	733	927	5.0	495.0
230/710 CA/W33	710	1030	236	7.5	8300	16300	1000	320	560	738	1002	6.0	670.0
230/710 CAK/W33	710	1030	236	7.5	8300	16300	1000	320	560	738	1002	6.0	670.0
240/710 ECA/W33	710	1030	315	7.5	10400	22000	1370	280	450	738	1002	6.0	895.0
240/710 ECAK/W33	710	1030	315	7.5	10400	22000	1370	280	450	738	1002	6.0	895.0
231/710 CA/W33	710	1150	345	9.5	12200	26000	1530	240	450	750	1110	8.0	1450.0



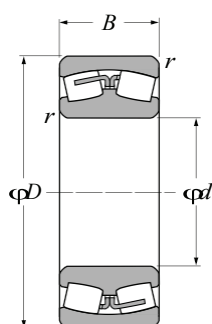
Foro cilindrico
Cylindric hole



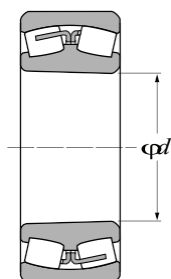
Foro conico 1:12
Conic hole 1:12



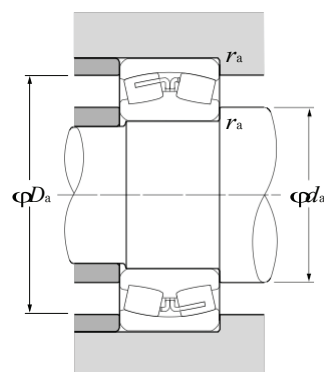
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
231/710 CAK/W33	710	1150	345	9.5	12200	26000	1530	240	450	750	1110	8.0	1450.0
241/710 ECA/W33	710	1150	438	9.5	15200	32500	1900	190	380	750	1110	8.0	1900.0
241/710 ECAK/W33	710	1150	438	9.5	15200	32500	1900	190	380	750	1110	8.0	1900.0
232/710 CA/W33	710	1280	450	12.0	17600	34500	2000	200	320	758	1232	10.0	2610.0
232/710 CAK/W33	710	1280	450	12.0	17600	34500	2000	200	320	758	1232	10.0	2610.0
239/750 CA/W33	750	1000	185	6.0	6000	13200	815	320	560	773	977	5.0	420.0
239/750 CAK/W33	750	1000	185	6.0	6000	13200	815	320	560	773	977	5.0	420.0
249/750 CA/W33	750	1000	250	6.0	7650	18000	1100	280	480	773	977	5.0	560.0
249/750 CAK/W33	750	1000	250	6.0	7650	18000	1100	280	480	773	977	5.0	560.0
230/750 CA/W33	750	1090	250	7.5	9650	18600	1100	300	530	778	1062	6.0	795.0
230/750 CAK/W33	750	1090	250	7.5	9650	18600	1100	300	530	778	1062	6.0	795.0
240/750 EAC/W33	750	1090	335	7.5	11400	24000	1400	260	430	778	1062	6.0	1065.0
240/750 ECAK/W33	750	1090	335	7.5	11400	24000	1400	260	430	778	1062	6.0	1065.0
231/750 CA/W33	750	1220	365	9.5	13800	29000	1660	220	430	790	1180	8.0	1700.0
231/750 CAK/W33	750	1220	365	9.5	13800	29000	1660	220	430	790	1180	8.0	1700.0
241/750 ECA/W33	750	1220	475	9.5	17300	37500	2160	180	360	790	1180	8.0	2100.0
241/750 ECAK/W33	750	1220	475	9.5	17300	37500	2160	180	360	790	1180	8.0	2100.0
232/750 CA/W33	750	1360	475	15.0	18700	36500	2120	190	300	808	1302	12.0	3050.0
232/750 CAK/W33	750	1360	475	15.0	18700	36500	2120	190	300	808	1302	12.0	3050.0
239/800 CA/W33	800	1060	195	6.0	6400	14300	880	300	530	823	1037	5.0	470.0
239/800 CAK/W33	800	1060	195	6.0	6400	14300	880	300	530	823	1037	5.0	470.0
249/800 CA/W33	800	1060	258	6.0	8000	19300	1060	260	430	823	1037	5.0	640.0
249/800 CAK/W33	800	1060	258	6.0	8000	19300	1060	260	430	823	1037	5.0	640.0
230/800 CA/W33	800	1150	258	7.5	10000	20000	1160	280	480	828	1122	6.0	895.0
230/800 CAK/W33	800	1150	258	7.5	10000	20000	1160	280	480	828	1122	6.0	895.0
240/800 ECA/W33	800	1150	345	7.5	12500	27500	1730	240	400	828	1122	6.0	1200.0
240/800 ECAK/W33	800	1150	345	7.5	12500	27500	1730	240	400	828	1122	6.0	1200.0
231/800 CA/W33	800	1280	375	9.5	14800	31500	1800	200	400	840	1240	8.0	1920.0
231/800 CAK/W33	800	1280	375	9.5	14800	31500	1800	200	400	840	1240	8.0	1920.0



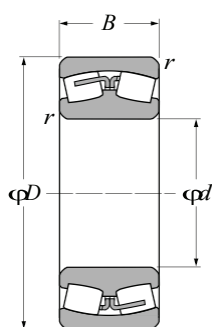
Foro cilindrico
Cylindric hole



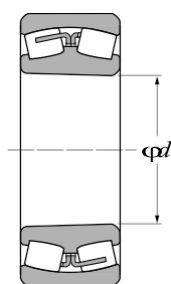
Foro conico 1:12
Conic hole 1:12



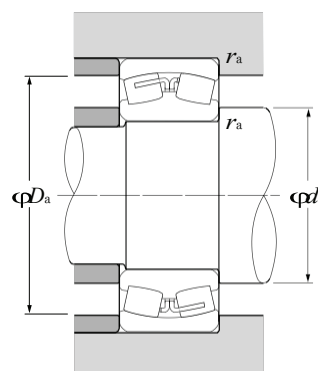
Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
241/800 CA/W33	800	1280	475	9.5	18400	40500	2320	170	320	840	1240	8.0	2300.0
241/800 CAK/W33	800	1280	475	9.5	18400	40500	2320	170	320	840	1240	8.0	2300.0
239/850 CA/W33	850	1120	200	6.0	6950	15600	930	280	480	873	1097	5.0	560.0
239/850 CAK/W33	850	1120	200	6.0	6950	15600	930	280	480	873	1097	5.0	560.0
248/850 CA/W33	850	1120	272	6.0	9300	22800	1370	240	400	873	1097	5.0	740.0
248/850 CAK/W33	850	1120	272	6.0	9300	22800	1370	240	400	873	1097	5.0	740.0
230/850 CA/W33	850	1220	272	7.5	9370	21600	1270	240	450	878	1192	6.0	1050.0
230/850 CAK/W33	850	1220	272	7.5	9370	21600	1270	240	450	878	1192	6.0	1050.0
240/850 ECA/W33	850	1220	365	7.5	12700	31500	1900	200	360	878	1192	6.0	1410.0
240/850 ECAK/W33	850	1220	365	7.5	12700	31500	1900	200	360	878	1192	6.0	1410.0
231/850 CA/W33	850	1360	400	12.0	16100	34500	2000	180	360	898	1312	10.0	2200.0
231/850 CAK/W33	850	1360	400	12.0	16100	34500	2000	180	360	898	1312	10.0	2200.0
241/850 ECA/W33	850	1360	500	12.0	20200	45000	2550	150	300	898	1312	10.0	2710.0
241/850 ECAK/W33	850	1360	500	12.0	20200	45000	2550	150	300	898	1312	10.0	2710.0
239/900 CA/W33	900	1180	206	6.0	7500	17000	1020	260	450	923	1157	5.0	605.0
239/900 CAK/W33	900	1180	206	6.0	7500	17000	1020	260	450	923	1157	5.0	605.0
230/900 CA/W33	900	1280	280	7.5	10100	23200	1340	220	400	928	1252	6.0	1200.0
230/900 CAK/W33	900	1280	280	7.5	10100	23200	1340	220	400	928	1252	6.0	1200.0
240/900 ECA/W33	900	1280	375	7.5	13600	34500	2040	190	340	928	1252	6.0	1570.0
240/900 ECAK/W33	900	1280	375	7.5	13600	34500	2040	190	340	928	1252	6.0	1570.0
241/900 ECA/W33	900	1420	515	12.0	21400	49000	2700	140	280	948	1372	10.0	3350.0
241/900 ECAK/W33	900	1420	515	12.0	21400	49000	2700	140	280	948	1372	10.0	3350.0
239/950 CA/W33	950	1250	224	7.5	7250	19600	1120	220	430	978	1222	6.0	755.0
239/950 CAK/W33	950	1250	224	7.5	7250	19600	1120	220	430	978	1222	6.0	755.0
249/950 CA/W33	950	1250	300	7.5	9200	26000	1500	180	340	978	1222	6.0	1015.0
249/950 CAK/W33	950	1250	300	7.5	9200	26000	1500	180	340	978	1222	6.0	1015.0
230/950 CA/W33	950	1360	300	7.5	12000	28500	1600	200	380	978	1332	6.0	1450.0
230/950 CAK/W33	950	1360	300	7.5	12000	28500	1600	200	380	978	1332	6.0	1450.0
240/950 CA/W33	950	1360	412	7.5	14800	39000	2320	170	300	978	1332	6.0	1990.0



Foro cilindrico
Cylindric hole



Foro conico 1:12
Conic hole 1:12



Codice Code	Dimensioni - Dimensions				Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimen- sions			Peso Weight Kg
	d mm	D mm	B mm	r mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
240/950 CAK/W33	950	1360	412	7.5	14800	39000	2320	170	300	978	1332	6.0	1990.0
241/950 CA/W33	950	1500	545	12.0	23900	55000	3000	130	260	998	1452	10.0	3535.0
241/950 CAK/W33	950	1500	545	12.0	23900	55000	3000	130	260	998	1452	10.0	3535.0
249/1000 CA/W33	1000	1320	315	7.5	10400	29000	1500	170	320	1028	1292	6.0	1200.0
249/1000 CAK/W33	1000	1320	315	7.5	10400	29000	1500	170	320	1028	1292	6.0	1200.0
230/1000 CA/W33	1000	1420	308	7.5	12700	30500	1700	180	360	1028	1392	6.0	1600.0
230/1000 CAK/W33	1000	1420	308	7.5	12700	30500	1700	180	360	1028	1392	6.0	1600.0
240/1000 CA/W33	1000	1420	412	7.5	15400	40500	2240	160	280	1028	1392	6.0	2140.0
240/1000 CAK/W33	1000	1420	412	7.5	15400	40500	2240	160	280	1028	1392	6.0	2140.0
231/1000 CA/W33	1000	1580	462	12.0	21400	48000	2550	140	280	1048	1532	10.0	3500.0
231/1000 CAK/W33	1000	1580	462	12.0	21400	48000	2550	140	280	1048	1532	10.0	3500.0
241/1000 CA/W33	1000	1580	580	12.0	26700	62000	3350	120	240	1048	1532	10.0	4300.0
241/1000 CAK/W33	1000	1580	580	12.0	26700	62000	3350	120	240	1048	1532	10.0	4300.0
239/1060 CA/W33	1060	1400	250	7.5	9550	26000	1460	180	360	1088	1372	6.0	1100.0
239/1060 CAK/W33	1060	1400	250	7.5	9550	26000	1460	180	360	1088	1372	6.0	1100.0
249/1060 CA/W33	1060	1400	335	7.5	11500	32500	1860	160	280	1088	1372	6.0	1400.0
249/1060 CAK/W33	1060	1400	335	7.5	11500	32500	1860	160	280	1088	1372	6.0	1400.0
230/1060 CA/W33	1060	1500	325	9.5	13800	34000	1830	170	320	1094	1466	8.0	2250.0
230/1060 CAK/W33	1060	1500	325	9.5	13800	34000	1830	170	320	1094	1466	8.0	2250.0
240/1060 CA/W33	1060	1500	438	9.5	17300	45500	2500	150	260	1094	1466	8.0	2515.0
240/1060 CAK/W33	1060	1500	438	9.5	17300	45500	2500	150	260	1094	1466	8.0	2515.0
249/1120 CA/W33	1120	1460	335	7.5	11700	34500	1830	140	260	1148	1432	6.0	1500.0
249/1120 CAK/W33	1120	1460	335	7.5	11700	34500	1830	140	260	1148	1432	6.0	1500.0
240/1120 CA/W33	1120	1580	462	9.5	18700	50000	2850	130	240	1154	1546	8.0	2925.0
240/1120 CAK/W33	1120	1580	462	9.5	18700	50000	2850	130	240	1154	1546	8.0	2925.0
239/1180 CA/W33	1180	1540	272	7.5	11100	31000	1660	150	300	1208	1512	6.0	1400.0
230/1250 CA/W33	1250	1750	375	9.5	17900	45000	2400	130	240	1284	1716	8.0	2840.0
248/1500 CA/W33	1500	1820	315	7.5	12700	45000	2400	110	200	1528	1792	6.0	1710.0
248/1800 CA/W33	1800	2180	375	9.5	17600	63000	3050	75	130	1834	2146	8.0	2900.0



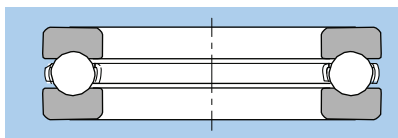
Cuscinetti Assiali
Thrust Bearings

I cuscinetti assiali sono pregeggiati principalmente per il supporto di carichi assiali e hanno un angolo di contatto compreso tra 30° e 90°. Come per i cuscinetti radiali esiste un'ampia gamma di cuscinetti assiali che utilizzano sfere o rulli di diverse forme come corpi volventi. Al fine di evitare lo strisciamento tra i corpi volventi e le relative piste i cuscinetti assiali devono sempre essere montati precaricati.

Cuscinetti assiali a sfere

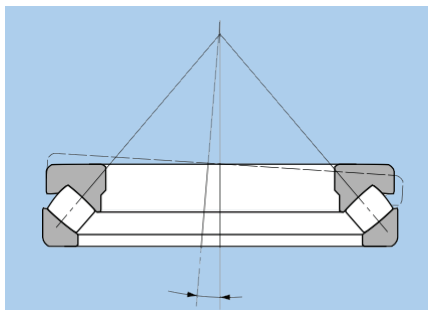
Come illustrato nella figura le sfere in acciaio sono poste tra due ralle (ralla per l'albero e ralla per l'alloggiamento), l'angolo normale di contatto è di 90°. Tale configurazione permette il supporto esclusivamente di carichi assiali monodirezionali e non è adatta ad operare ad elevati regimi di rotazione. I cuscinetti assiali a sfere possono avere diversi tipi di gabbie come da elenco seguente:

- Gabbia ad iniezione in poliammide caricato a vetro
- Gabbia in lamiera stampata
- Gabbia in acciaio massiccio.



Cuscinetti assiali orientabili a rulli

L'esecuzione dei cuscinetti assiali orientabili a rulli è simile a quella dei cuscinetti radiali orientabili a rulli, ma differisce da quest'ultima per avere una sola corona di corpi volventi e un angolo di contatto molto elevato. I cuscinetti assiali orientabili a rulli hanno anche la possibilità di compensare gli errori di allineamento grazie alla forma "a botte" dei corpi volventi. In condizioni normali di carico questi cuscinetti possono compensare disallineamenti di 1° o 2° in base alla serie dimensionale. I cuscinetti assiali orientabili a rulli montano gabbie in ottone e il loro anello interno è munito di una bussola che guida la gabbia. Questi cuscinetti hanno una elevata capacità di carico assiale e possono anche sopportare dei carichi radiali di una certa entità, purché sia sempre presente un carico assiale. A causa della loro geometria interna questi cuscinetti possono essere utilizzati solo con lubrificazione ad olio, anche in applicazioni di bassa velocità.



Appellativi supplementari

I suffissi nell'appellativo sono utilizzati per identificare alcune caratteristiche dei cuscinetti assiali:

- **F** - Gabbia massiccia in acciaio centrata sulle sfere
- **JR** - Gabbia costituita da due rondelle in lamiera d'acciaio stampata centrata sulle sfere.
- **M** - Gabbia massiccia in ottone centrata sulle sfere.
- **TN9** - Gabbia stampata a iniezione in poliammide, rinforzata con fibre di vetro centrata sulle sfere.
- **E** - Esecuzione interna ottimizzata con gabbia in acciaio del tipo a feritoie.
- **EF** - Esecuzione interna ottimizzata e gabbia massiccia in acciaio.
- **EM** - Esecuzione interna ottimizzata e gabbia massiccia in ottone.

Thrust bearings are designed these primarily to support axial loads and have a contact angle between 30° and 90°.

As for radial bearings exists a wide range of thrust bearings using balls or rollers of various shapes such as rolling elements. In order to avoid the sliding between the rolling elements and the relative slopes thrust bearings must always be mounted preloaded.

Thrust Ball Bearings

As shown in the figure, the steel balls are placed between two washers (first wheel to the shaft and coupling for the housing), the angle of contact normal is 90°. This configuration allows the support of only axial loads unidirectional and is not suitable to operate at high speeds of rotation.

The thrust ball bearings can have different types of cages as listed below:

- Cage injection Polyamide, Glass Filled
- The pressed steel cage
- Solid steel cage.

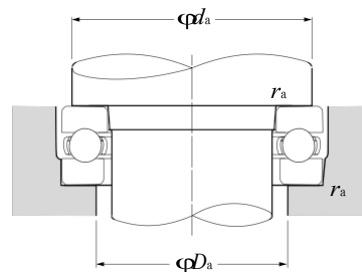
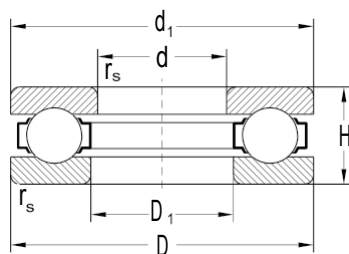
Axial spherical roller bearings

The execution of the spherical roller thrust bearings is similar to that of the spherical rollers, but differs from the latter to have a single row of rolling elements and a very high contact angle. Spherical roller thrust bearings are also able to compensate for alignment errors due to the form of a "barrel" of the rolling elements. Under normal load these bearings can compensate for misalignment of 1° or 2° in the dimensional series. Axial spherical roller bearings mounted brass cages and their inner ring is provided with a compass that guides the cage. These bearings have a high axial load capacity and can also withstand radial loads of a certain entity, provided it is always present an axial load. Because of their internal geometry of these bearings can be used only with oil lubrication, even in low speed applications.

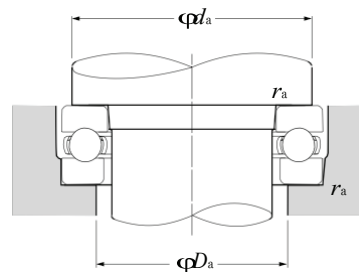
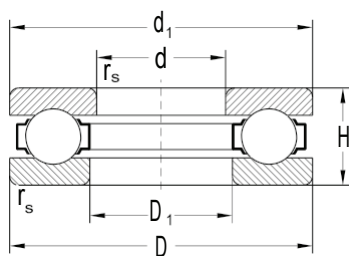
Supplementary designations

The suffixes in the designation are used to identify certain characteristics of thrust bearings:

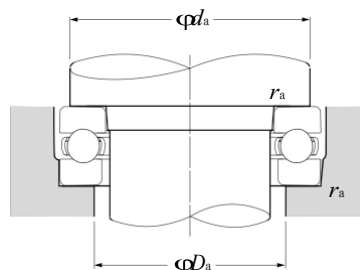
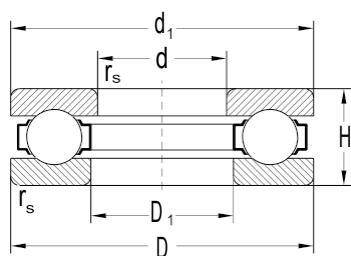
- **F** - cage steel ball centered
- **JR** - Cage constituted by two washers pressed steel centrataa on the spheres.
- **M** - brass cage centered on the balls.
- **TN9** - Cage injection-molded polyamide, reinforced with glass fibers centered on the balls.
- **E** - Execution optimized interior with steel cage-type slots.
- **EF** - Execution optimized internal and massive steel cage.
- **EM** - Execution optimized internal and brass cage.



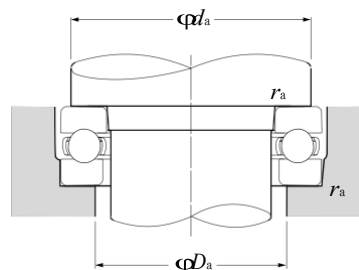
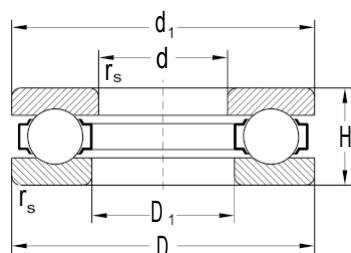
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	H mm	rs mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
BA 3	3	8	3.5	0.15	7.8	3.2	0.806	0.72	0.027	26000	36000	5.8	5	0.15	0.0009
BA 4	4	10	4	0.15	9.8	4.2	0.761	0.72	0.027	22000	30000	7.5	6.5	0.15	0.0015
BA 5	5	12	4	0.15	11.8	5.2	0.852	0.965	0.036	20000	28000	8	9	0.15	0.0021
BA 6	6	14	5	0.20	13.8	6.2	1.78	1.92	0.071	17000	24000	11	9.5	0.2	0.0035
BA 7	7	17	6	0.20	16.8	7.2	2.51	2.9	0.108	14000	19000	12.5	11	0.2	0.0065
BA 8	8	19	7	0.30	18.8	8.2	3.19	3.8	0.143	12000	17000	14.5	12.5	0.3	0.0091
BA 9	9	20	7	0.30	19.8	9.2	3.12	3.8	0.143	12000	16000	15.5	13.5	0.3	0.010
51100	10	24	9	0.30	24	11	9.95	15.3	0.56	9500	13000	19	15	0.3	0.020
51200	10	26	11	0.6	26	12	12.7	18.6	0.70	8000	11000	20	16	0.6	0.030
51101	12	26	9	0.3	26	13	10.4	16.6	0.62	9000	13000	21	17	0.3	0.022
51201	12	28	11	0.6	28	14	13.3	20.8	0.77	8000	11000	22	18	0.6	0.034
51102	15	28	9	0.3	28	16	10.6	18.3	0.67	8500	12000	23	20	0.3	0.023
51202	15	32	12	0.6	32	17	16.5	27	1.00	7000	10000	25	22	0.6	0.046
51103	17	30	9	0.3	30	18	11.4	21.2	0.78	8500	12000	25	22	0.3	0.025
51203	17	35	12	0.6	35	19	17.2	30	1.10	6700	9500	28	24	0.6	0.053
51104	20	35	10	0.3	35	21	15.1	29	1.08	7500	10000	29	26	0.3	0.037
51204	20	40	14	0.6	40	22	22.5	40.5	1.53	6000	8000	32	28	0.6	0.083
51105	25	42	11	0.6	42	26	18.2	39	1.43	6300	9000	35	32	0.6	0.056
51205	25	47	15	0.6	47	27	27.6	55	2.04	5300	7500	38	34	0.6	0.110
51305	25	52	18	1.0	52	27	34.5	60	2.24	4500	6300	41	36	1.0	0.170
51405	25	60	24	1.0	60	27	55.3	96.5	3.60	3600	5000	46	39	1.0	0.340
51106	30	47	11	0.6	47	32	19	43	1.60	6000	8500	40	37	0.6	0.063
51206	30	52	16	0.6	52	32	25.5	51	1.90	4800	6800	43	39	0.6	0.130
51306	30	60	21	1.0	60	32	37.7	71	2.65	3800	5300	48	42	1.0	0.260
51406	30	70	28	1.0	70	32	72.8	137	5.10	3000	4300	54	46	1.0	0.520
51107	35	52	12	0.6	52	37	19.9	51	1.86	5600	7500	45	42	0.6	0.080
51207	35	62	18	1.0	62	37	35.1	73.5	2.70	4000	5600	51	46	1.0	0.220
51307	35	68	24	1.0	68	37	49.4	96.5	3.55	3200	4500	55	48	1.0	0.390
51407	35	80	32	1.1	80	37	87.1	170	6.20	2600	3800	62	53	1.0	0.790



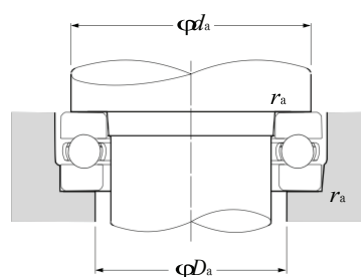
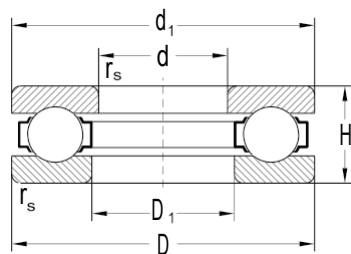
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	H mm	rs min	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
51108	40	60	13	0.6	60	42	26	63	2.32	5000	7000	52	48	0.6	0.120
51208	40	68	19	1.0	68	42	46.8	106	4.00	3800	5300	57	51	1.0	0.280
51308	40	78	26	1.0	78	42	61.8	122	4.50	3000	4300	63	55	1.0	0.530
51408	40	90	36	1.1	90	42	112	224	8.3	2400	3400	70	60	1.0	1.100
51109	45	65	14	0.6	65	47	26.5	69.5	2.55	4500	6300	57	53	0.6	0.140
51209	45	73	20	1.0	73	47	39	86.5	3.20	3600	5000	62	56	1.0	0.300
51309	45	85	28	1.0	85	47	76.1	153	5.60	2800	4000	69	61	1.0	0.660
51409	45	100	39	1.1	100	47	130	265	9.80	2200	3000	78	67	1.0	1.400
51110	50	70	14	0.6	70	52	27	75	2.80	4300	6300	62	58	0.6	0.160
51210	50	78	22	1.0	78	52	49.4	116	4.30	3400	4500	67	61	1.0	0.370
51310	50	95	31	1.1	95	52	88.4	190	6.95	2600	3600	77	68	1.0	0.940
51410	50	110	43	1.5	110	52	159	340	12.50	2000	2800	86	74	1.5	2.000
51111	55	78	16	0.6	78	57	30.7	85	3.10	3800	5300	69	64	0.6	0.230
51211	55	90	25	1.0	90	57	61.8	146	5.40	2800	4000	76	69	1.0	0.590
51311	55	105	35	1.1	105	57	104	224	8.30	2200	3200	85	75	1.0	1.300
51411	55	120	48	1.5	120	57	178	390	14.30	1800	2400	94	81	1.5	2.550
51112	60	85	17	1.0	85	62	41.6	122	4.55	3600	5000	75	70	1.0	0.200
51212	60	95	26	1.0	95	62	62.4	150	5.60	2800	3800	81	74	1.0	0.650
51312	60	110	35	1.1	110	62	101	224	8.30	2200	3000	90	80	1.0	1.350
51412 M	60	130	51	1.5	130	62	199	430	16.00	1600	2200	102	88	1.5	3.100
51113	65	90	18	1.0	90	67	37.7	108	4.00	3400	4800	80	75	1.0	0.330
51213	65	100	27	1.0	100	67	63.7	163	6.00	2600	3600	86	79	1.0	0.780
51313	65	140	56	1.1	115	67	106	240	8.80	2000	3000	95	85	1.0	1.500
51413 M	65	140	56	2.0	140	68	216	490	18.00	1500	2200	110	95	2.0	4.000
51114	70	95	18	1.0	95	75	40.3	120	4.40	3400	4500	85	80	1.0	0.350
51214	70	105	27	1.0	105	72	65	173	6.40	2600	3600	91	84	1.0	0.790
51314	70	125	40	1.1	125	72	135	320	11.80	1900	2600	103	92	1.0	2.000
51414 M	70	150	60	2.0	150	73	234	550	19.30	1400	2000	118	102	2.0	5.000
51115	75	100	19	1.0	100	77	44.2	146	5.50	3200	4300	90	85	1.0	0.400



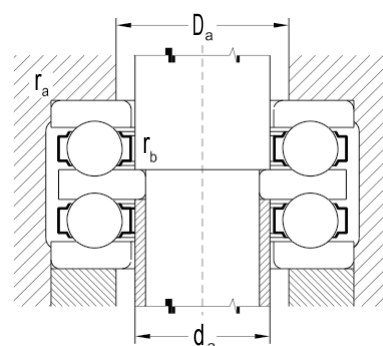
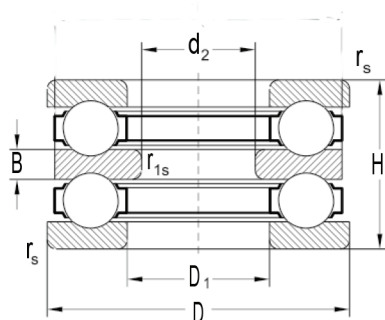
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d mm	D mm	H mm	rs mm	d1 mm	D1 mm	Dynamic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
51215	75	110	27	1.0	110	77	67.6	183	6.80	2400	3400	96	89	1.0	0.83
51315	75	135	44	1.5	135	77	163	390	14.00	1700	2400	111	99	1.5	2.60
51415 M	75	160	65	2.0	160	78	251	610	20.80	1300	1800	126	109	2.0	6.75
51116	80	105	19	1.0	105	82	44.9	153	5.70	3000	4300	95	90	1.0	0.42
51216	80	115	28	1.0	115	82	76.1	208	7.65	2400	3400	101	94	1.0	0.91
51316	80	140	44	1.5	140	82	159	390	13.70	1700	2400	116	104	1.5	2.70
51416 M	80	170	68	2.1	170	83	270	670	22.40	1200	1700	133	117	2.0	7.95
51117	85	110	19	1.0	110	87	46.2	163	6.00	3000	4300	100	95	1.0	0.44
51217	85	125	31	1.0	125	88	97.5	275	9.80	2200	3000	109	101	1.0	1.20
51317	85	150	49	1.5	150	88	190	465	16.00	1600	2200	124	111	1.5	3.55
51417 M	85	180	72	2.1	177	88	286	750	24.00	1200	1600	141	124	2.0	9.45
51118	90	120	22	1.0	120	92	59.2	208	7.50	2600	3800	108	102	1.0	0.67
51218	90	135	35	1.1	135	93	119	325	11.40	2000	2800	117	108	1.0	1.70
51318	90	155	50	1.5	155	93	195	500	16.60	1500	2200	129	116	1.5	3.80
51418 M	90	190	77	2.1	187	93	307	815	25.50	1100	1500	149	131	2.0	11.00
51120	100	135	25	1.0	135	102	85.2	290	10.00	2400	3200	121	114	1.0	0.97
51220	100	150	38	1.1	150	103	124	345	11.40	1800	2400	130	120	1.0	2.20
51320	100	170	55	1.5	170	103	229	610	19.60	1400	1900	142	128	1.5	4.95
51420 M	100	210	85	3.0	205	103	371	1060	31.50	950	1400	165	145	2.5	15.00
51122	110	145	25	1.0	145	112	87.1	315	10.20	2200	3200	131	124	1.0	1.05
51222	110	160	38	1.1	160	113	130	390	12.50	1700	2400	140	130	1.0	2.40
51322 M	110	190	63	2.0	187	113	276	780	24.00	1200	1700	158	142	2.0	7.85
51422 M	110	230	95	3.0	225	113	410	1220	34.50	900	1300	181	159	2.5	20.00
51124	120	155	25	1.0	155	122	88.4	335	10.60	2200	3000	141	134	1.0	1.15
51224	120	170	39	1.1	170	123	140	440	13.40	1600	2200	150	140	1.0	2.65
51324 M	120	210	70	2.1	205	123	325	980	28.50	1100	1500	173	157	2.0	11.00
51424 M	120	250	102	4.0	245	123	520	1730	45.00	800	1100	197	173	3.0	29.50
51126	130	170	30	1.0	170	132	111	425	12.90	1900	2600	154	146	1.0	1.85
51226	130	190	45	1.5	187	133	186	585	17.00	1400	2000	166	154	1.5	4.00



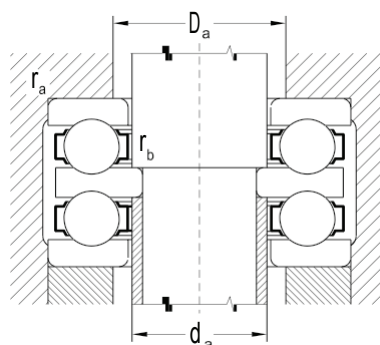
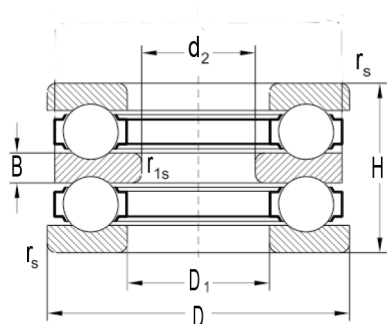
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	H mm	rs mm	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
51326 M	130	225	75	2.1	220	134	358	1140	32.00	1000	2400	186	169	2.0	13.00
51426 M	130	270	110	4.0	265	134	520	1730	45.00	750	1000	213	187	3.0	32.00
51128	140	180	31	1.0	178	142	111	440	12.90	1800	2600	164	156	1.0	2.05
51228	140	200	46	1.5	197	143	190	620	17.60	1400	1900	176	164	1.5	4.35
51328 M	140	240	80	2.1	235	144	397	1320	35.50	950	1300	199	181	2.0	15.50
51428 M	140	280	112	4.0	275	144	520	1730	44.00	700	1000	223	197	3.0	34.50
51130 M	150	190	31	1.0	188	152	111	440	12.50	1700	2400	174	166	1.0	2.20
51230 M	150	215	50	1.5	212	153	238	800	22.00	1300	1800	189	176	1.5	6.10
51330 M	150	250	80	2.1	245	154	410	1400	36.50	900	1300	209	191	2.0	16.50
51430 M	150	300	120	4.0	295	154	559	1960	48.00	670	950	239	211	3.0	42.50
51132 M	160	200	31	1.0	198	162	112	465	12.90	1700	2400	184	176	1.0	2.35
51232 M	160	225	51	1.5	222	163	242	850	22.80	1200	1700	199	186	1.5	6.55
51332 M	160	270	87	3.0	265	164	449	1660	41.50	850	1200	225	205	2.5	21.00
51134 M	170	215	34	1.1	213	172	133	540	14.30	1600	2200	197	188	1.0	3.30
51234 M	170	240	55	1.5	237	173	286	1020	26.00	1100	1800	212	198	1.5	8.15
51334 M	170	280	87	3.0	275	174	468	1760	43.00	800	1100	235	215	2.5	22.00
51136 M	180	225	34	1.1	222	183	135	570	15.00	1500	2200	207	198	1.0	3.50
51236 M	180	250	56	1.5	245	183	296	1080	27.50	1100	1500	222	208	1.5	8.60
51336 M	180	300	95	3.0	295	184	520	2000	47.50	750	1100	251	229	2.5	28.50
51138 M	190	240	37	1.1	237	193	172	710	18.00	1400	2000	220	210	1.0	4.05
51238 M	190	270	62	2.0	265	194	332	1270	31.00	1000	1400	238	222	1.0	12.00
51338 M	190	320	105	4.0	315	195	592	2400	56.00	700	950	267	243	3.0	36.50
51140 M	200	250	37	1.1	247	203	168	710	17.60	1400	1900	230	220	1.0	4.25
51240 M	200	280	62	2.0	275	204	338	1320	31.50	1000	1400	248	232	2.0	12.00
51340 M	200	340	110	4.0	335	205	624	2600	58.50	630	900	283	257	3.0	44.50
51144 M	220	270	37	1.1	267	223	178	800	19.00	1300	1900	250	240	1.0	4.60
51244 M	220	300	63	2.0	295	224	351	1460	33.50	950	1300	268	252	2.0	13.00
51148 M	240	300	45	1.5	297	243	234	1040	23.60	1100	1600	276	264	1.5	7.55
51248 M	240	340	78	2.1	335	244	462	2000	44.00	800	1100	299	281	2.0	23.00



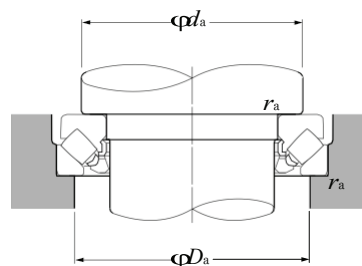
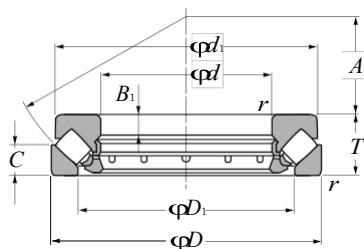
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d mm	D mm	H mm	rs mm	d1 mm	D1 mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
51152 M	260	320	45	1.5	317	263	238	1100	24.00	1100	1500	296	284	1.5	8.10
51252 M	260	360	79	2.1	355	264	475	2160	45.50	750	1100	319	301	2.0	25.00
51156 M	280	350	53	1.5	347	283	319	1460	30.50	950	1300	322	308	1.5	12.00
51256 M	280	380	80	2.1	375	284	494	2320	47.50	750	1000	339	321	2.0	26.50
51160 M	300	380	62	2.0	376	304	364	1760	35.50	850	1200	348	332	2.0	17.50
51260 M	300	420	95	3.0	415	304	605	3000	58.50	630	850	371	349	2.5	42.00
51164 M	320	400	63	2.0	396	324	371	1860	36.50	800	1100	368	352	2.0	19.00
51264 F	320	440	95	3.0	435	325	572	3000	56.00	600	850	391	369	2.5	45.50
51168 M	340	420	64	2.0	416	344	377	1960	37.50	800	1100	388	372	2.0	20.50
51268 F	340	460	96	3.0	455	345	605	3200	58.50	600	800	411	389	2.5	48.50
51172 F	360	440	65	2.0	436	364	390	2080	38.00	750	1100	408	392	2.0	22.00
51272 F	360	500	110	4.0	495	365	741	4150	73.50	530	750	443	417	3.0	70.00
51176 F	380	460	65	2.0	456	384	397	2200	40.00	750	1000	428	412	2.0	23.00
51276 F	380	520	112	4.0	515	385	728	4150	72.00	500	700	463	437	3.0	73.00
51180 F	400	480	65	2.0	476	404	403	2280	40.50	700	1000	448	432	2.0	24.00
51184 F	420	500	65	2.0	496	424	410	2400	41.50	700	1000	468	452	2.0	25.50
51188 F	440	540	80	2.1	536	444	527	3250	55.00	600	850	499	481	2.0	42.00
51192 F	460	560	80	2.1	556	464	527	3250	54.00	600	800	519	501	2.0	43.50
51196 F	480	580	80	2.1	576	484	540	3550	56.00	560	800	539	521	2.0	45.50
511/500 F	500	600	80	2.1	596	504	553	3600	57.00	560	800	559	541	2.0	47.00
511/530 F	530	640	85	3.0	636	534	650	4400	68.00	530	750	595	575	2.5	58.50
511/560 F	560	670	85	3.0	666	564	663	4650	69.50	500	700	625	606	2.5	61.00
511/600 F	600	710	85	3.0	706	604	663	4800	69.50	500	700	665	645	2.5	65.00
511/630 F	630	750	95	3.0	746	634	728	5400	76.50	450	630	701	679	2.5	84.00
511/670 F	670	800	105	4.0	795	675	852	6700	91.50	400	560	747	723	3.0	105.00



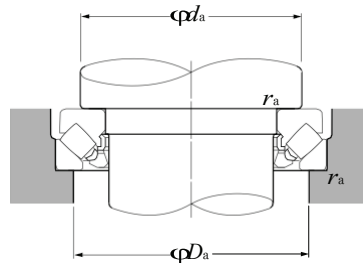
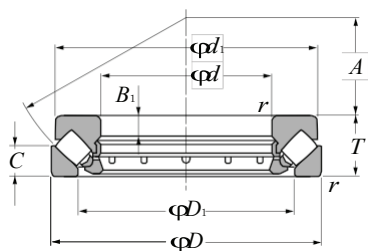
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d2 mm	D mm	H mm	rs min	D1 mm	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
52202	10	32	22	0.6	17	5	16.5	27	1.00	7000	10000	15	22	0.6	0.081
52204	15	40	26	0.6	22	6	22.5	40.5	1.53	6000	8000	20	28	0.6	0.15
52205	20	47	28	0.6	27	7	27.6	55	2.04	5300	7500	25	34	0.6	0.22
52305	20	52	34	1.0	27	8	34.5	60	2.24	4500	6300	25	36	1.0	0.33
52406	20	70	52	1.0	32	12	72.8	138	5.10	3600	5000	30	46	1.0	1.00
52206	25	52	29	0.6	32	7	25.5	51	1.90	4800	6700	30	39	0.6	0.25
52306	25	60	38	1.0	32	9	37.7	71	2.65	3800	5300	30	42	1.0	0.47
52407	25	80	59	1.1	37	14	87.1	170	6.20	3000	4300	35	53	1.0	1.45
52207	30	62	34	1.0	37	8	35.1	73.5	2.70	4000	5600	35	46	1.0	0.41
52208	30	68	36	1.0	42	9	46.8	106	4.00	3800	5300	40	51	1.0	0.55
52307	30	68	44	1.0	37	10	49.4	96.5	3.55	3200	4500	35	48	1.0	0.68
52308	30	78	49	1.0	42	12	61.8	122	4.50	3000	4300	40	55	1.0	1.05
52408	30	90	65	1.1	42	15	112	224	8.30	2400	3400	40	60	1.0	2.05
52209	35	73	37	1.0	47	9	39	86.5	3.20	3600	5000	45	56	1.0	0.60
52309	35	85	52	1.0	47	12	76.1	153	5.60	2800	4000	45	61	1.0	1.25
52409	35	100	72	1.1	47	17	130	265	9.80	2200	3000	45	67	1.0	2.70
52210	40	78	39	1.0	52	9	49.4	116	4.30	3400	4500	50	61	1.0	0.71
52310	40	95	58	1.1	52	14	88.4	190	6.95	2600	3600	50	68	1.0	1.75
52211	45	90	45	1.0	57	10	61.8	146	5.40	2800	4000	55	69	1.0	1.10
52311	45	105	64	1.1	57	15	104	224	8.30	2200	3200	55	75	1.0	2.40
52411	45	120	87	1.5	57	20	178	390	14.30	1800	2400	55	81	1.5	4.70
52212	50	95	46	1.0	62	10	62.4	150	5.60	2200	3000	60	74	1.0	1.20
52312	50	110	64	1.1	62	15	101	224	8.30	1600	2200	60	80	1.0	2.55
52412 M	50	130	93	1.5	62	21	199	430	16.00	1600	2200	60	88	1.5	6.35
52213	55	100	47	1.0	67	10	63.7	163	6.0	2600	3600	65	79	1.0	1.35
52214	55	105	47	1.0	72	10	65	173	6.40	2600	3600	70	84	1.0	1.50
52313	55	115	65	1.1	67	15	106	240	8.80	2000	3000	65	85	1.0	2.75
52314	55	125	72	1.1	72	16	135	320	11.80	1900	2600	70	92	1.0	3.65
52414 M	55	150	107	2.0	73	24	234	550	19.30	1400	2000	70	102	2.0	9.70



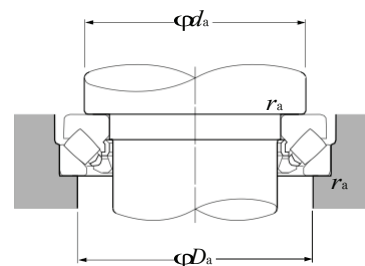
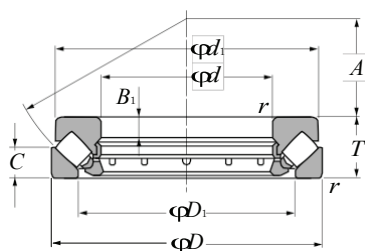
Codice Code	Dimensioni - Dimensions						Coeff.di carico - Basic Load Rating		Limite di carico - Fa- tigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d2 mm	D mm	H mm	rs mm	D1 mm	B mm	Dynamic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
52215	60	110	47	1.0	77	10	67.6	183	6.80	2400	3400	75	89	1.0	1.55
52315	60	135	79	1.5	77	18	163	390	14.00	1700	2400	75	99	1.5	4.80
52216	65	115	48	1.0	82	10	76.1	208	7.65	2400	3400	80	94	1.0	1.70
52316	65	140	79	1.5	82	18	159	390	13.70	1700	2400	80	104	1.5	4.94
52217	70	125	55	1.0	88	12	97.5	275	9.80	2200	3000	85	101	1.0	2.40
52218	75	135	62	1.1	93	14	119	325	11.40	2000	2800	90	108	1.0	3.20
52220	85	150	67	1.1	103	15	124	345	11.40	1800	2400	100	120	1.0	4.20
52320	85	170	97	1.5	103	21	229	610	19.60	1400	1900	100	128	1.5	8.95
52222	95	160	67	1.1	113	15	130	390	12.50	1700	2400	110	130	1.0	4.65
52224	100	170	68	1.1	123	15	140	440	13.40	1600	2200	120	140	1.0	5.25
52226	110	190	80	1.5	133	18	186	585	17.00	1400	2000	130	154	1.5	8.00
52228	120	200	81	1.5	143	18	190	620	17.60	1400	1900	140	164	1.5	8.65
52230 M	130	215	89	1.5	153	20	238	800	22.00	1300	1800	150	176	1.5	11.50
52232 M	140	225	90	1.5	163	20	242	850	22.80	1200	1700	160	186	1.5	12.00
52234 M	150	240	97	1.5	173	21	286	1020	26.00	1100	1600	170	198	1.5	15.00
52236 M	150	250	98	1.5	183	21	296	1080	27.50	1100	1500	180	208	1.5	16.00



Codice Code	Dimensioni - Dimensions									Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight Kg
	d2 mm	D mm	T mm	r min	d1 mm	D1 mm	B1 mm	C mm	A mm	Dyna- mic kN	Static kN		Grasso Grease	Olio Oil	da mm	Da mm	ra mm	
29412 E	60	130	42	1.5	112.2	85.5	27	21	38	390	915	114	2800	5000	90	107	1.5	2.20
29413 E	65	140	45	2.0	120.6	91.5	29.5	22	42	455	1080	137	2600	4800	100	117	2.0	3.20
29414 E	70	150	48	2.0	129.7	99	31	23.8	44.8	520	1250	153	2400	4300	105	125	2.0	3.90
29415 E	75	160	51	2.0	138.3	105.5	33.5	24.5	47	600	1430	173	2400	4000	115	133	2.0	4.70
29416 E	80	170	54	2.1	147.2	112.5	35	26.5	50	670	1630	193	2200	3800	120	141	2.0	5.60
29317 E	85	150	39	1.5	134.8	109.5	24.5	20	50	380	1060	129	2400	4000	115	129	1.5	2.75
29417 E	85	180	58	2.1	155.8	121	37	28	54	735	1800	212	2000	3600	130	151	2.0	6.75
29318 E	90	155	39	1.5	138.6	115	24.5	19.5	53	400	1080	132	2400	4000	120	134	1.5	2.85
29418 E	90	190	60	2.1	164.6	127.5	39	28.5	56	815	2000	232	1900	3400	135	158	2.0	7.75
29320 E	100	170	42	1.5	152.3	127.5	26.2	20.5	58	465	1290	156	2200	3600	130	147	1.5	3.65
29420 E	100	210	67	3.0	182.2	141.5	43	32	62	980	2500	275	1700	3000	150	175	2.5	10.50
29322 E	110	190	48	2.0	171.1	140	30.3	24.8	63.8	610	1730	204	1900	3200	145	164	2.0	5.30
29422 E	110	230	73	3.0	199.4	155.5	47	34.7	69	1180	3000	325	1600	2800	165	193	2.5	13.50
29324 E	120	210	54	2.1	188.1	154	34	27	70	765	2120	245	1700	2800	160	181	2.0	7.35
29424 E	120	250	78	4.0	216.8	171	50.5	36.5	74	1370	3450	375	1500	2600	180	209	3.0	17.50
29326 E	130	225	58	2.1	203.4	165.5	36.7	30.1	75.6	865	2500	280	1600	2600	175	194	2.0	9.00
29426 E	130	270	85	4.0	234.4	184.5	54	40.9	81	1560	4050	430	1300	2400	195	227	3.0	22.00
29328 E	140	240	60	2.1	216.1	177	38.5	30	82	980	2850	315	1500	2600	185	208	2.0	10.50
29428 E	140	280	85	4.0	245.4	194.5	54	41	86	1630	4300	455	1300	2400	205	236	3.0	23.00
29230 E	150	215	39	1.5	200.4	176	24	205	82	408	1600	180	1800	2800	180	193	1.5	4.30
29330 E	150	250	60	2.1	223.9	190	38	28	87	1000	2850	315	1500	2400	195	219	2.0	11.00
29430 E	150	300	90	4.0	262.9	207.5	58	43.4	92	1860	5100	520	1200	2200	220	253	3.0	28.00
29332 E	160	270	67	3.0	243.5	203	42	33	92	1180	3450	375	1300	2200	210	235	2.5	14.50
29432 E	160	320	95	5.0	279.3	223.5	60.5	45.5	99	2080	5600	570	1100	2000	235	270	4.0	33.50
29334 E	170	280	67	3.0	251.2	215	42.2	30.5	96	1200	3550	365	1300	2200	220	245	2.5	15.00
29434 E	170	340	103	5.0	297.7	236	65.5	50	104	2360	6550	640	1100	1900	250	286	4.0	44.50
29326 E	180	250	42	1.5	234.4	208	26	22	97	495	2040	212	1600	2600	210	226	1.5	5.80
29336 E	180	300	73	3.0	270	227	46	35.5	103	1430	4300	440	1200	2000	235	262	2.5	19.50



Codice Code	Dimensioni - Dimensions									Coeff. di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d2 mm	D mm	T mm	r min	d1 mm	D1 mm	B1 mm	C mm	A mm	Dyna- mic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
29436 E	180	360	109	5.0	315.9	250	69.5	53	110	2600	7350	710	1000	1800	265	304	4.0	52.50
29338 E	190	320	78	4.0	285.6	243.5	49	36	110	1630	4750	490	1100	1900	250	280	3.0	23.50
29438 E	190	380	115	5.0	332.9	264.5	73	55.5	117	2850	8000	765	950	1700	280	321	4.0	60.50
29240 E	200	280	48	2.0	260.5	232.5	30	24	108	656	2650	285	1400	2200	235	253	2.0	9.30
29340 E	200	340	85	4.0	304.3	257	53.5	40	116	1860	5500	550	1000	1700	265	297	3.0	29.50
29440 E	200	400	122	5.0	350.7	277.5	77	59.4	122	3200	9000	850	850	1600	295	337	4.0	72.00
29244 E	220	300	48	2.0	280.5	251.5	30	24.5	117	690	3000	310	1300	2200	255	271	2.0	10.00
29344 E	220	360	85	4.0	326.3	273.5	55	41	125	2000	6300	610	1000	1700	285	316	3.0	33.50
29444 E	220	420	122	6.0	371.6	300	77	58.5	132	3350	9650	900	850	1500	315	358	5.0	75.00
29248	240	340	60	2.1	330	283	19	30	130	799	3450	335	1100	1800	290	308	2.0	16.50
29348 E	240	380	85	4.0	345.1	295.5	54	40.5	135	2040	6550	630	1000	1600	305	336	3.0	35.50
29448 E	240	440	122	6.0	391.6	322	76	59	142	3400	10200	930	850	1500	335	378	5.0	80.00
29252	260	360	60	2.1	350	302	19	30	139	817	3650	345	1100	1700	310	326	2.0	18.50
29352 E	260	420	95	5.0	382.2	324	61	46	148	2550	8300	780	850	1400	335	370	4.0	49.00
29452 E	260	480	132	6.0	427.9	346	86	63	154	4050	12900	1080	750	1300	365	412	5.0	105.00
29256	280	380	60	2.1	370	323	19	30.5	150	863	4000	375	1000	1700	325	347	2.0	19.50
29356 E	280	440	95	5.0	401	343	62	45.5	158	2550	8650	800	850	1400	355	390	4.0	53.00
29456 E	280	520	145	6.0	464.3	372	95	70	166	4900	15300	1320	670	1200	395	446	5.0	135.00
29260	300	420	73	3.0	405	353	21	38	162	1070	4800	465	900	1400	360	380	2.5	30.50
29360 E	300	480	109	5.0	434.1	372	70	51	168	3100	10600	930	750	1200	385	423	4.0	75.00
29460 E	300	540	145	6.0	485	392	95	70.5	175	4310	16600	1340	600	1200	415	465	5.0	140.00
29264	320	440	73	3.0	430	372	21	38	172	1110	5100	465	850	1400	380	400	2.5	33.00
29364 E	320	500	109	5.0	454.4	391	68	53	180	3350	11200	1000	750	1200	405	442	4.0	78.00
29464 E	320	580	155	7.5	520.3	422	102	74.5	191	4950	19000	1530	560	1100	450	500	6.0	175.00
29268	340	460	73	3.0	445	395	21	37.5	183	1130	5400	480	850	1300	400	422	2.5	33.50
29368	340	540	122	5.0	520	428	40.6	59.5	192	2710	11000	950	600	1100	440	479	4.0	105.00
29468 E	340	620	170	7.5	557.9	445	112	84	201	5750	22400	1760	500	1000	475	530	6.0	220.00
29272	360	500	85	4.0	485	423	25	44	194.5	1460	6800	585	750	1200	430	453	3.0	52.00



Codice Code	Dimensioni - Dimensions									Coeff.di carico - Basic Load Rating		Limite di carico - Fatigue Load Limit	Velocità limite Limiting Speed g./min.		Dimensioni del supporto Abutment and Fillet dimensions			Peso Weight
	d2 mm	D mm	T mm	r min	d1 mm	D1 mm	B1 mm	C mm	A mm	Dyna- mic kN	Static kN	kN	Grasso Grease	Olio Oil	da mm	Da mm	ra mm	Kg
29372	360	560	122	5.0	540	448	40.5	59.5	202	2760	11600	980	600	1100	460	500	4.0	110.00
29472 EM	360	640	170	7.5	580	474	63	83.5	210	5350	21200	1630	500	950	495	550	6.0	230.00
29276	380	520	85	4.0	505	441	27	42	202	1580	7650	655	700	1100	450	473	3.0	53.00
29376	380	600	132	6.0	580	477	45	63.5	216	3340	14000	1160	530	1000	495	535	5.0	140.00
29476 EM	380	670	175	7.5	610	494	67	87.5	222	5870	24000	1860	480	900	525	580	6.0	260.00
29280	400	540	85	4.0	526	460	27	42.2	212	1610	8000	695	700	1100	470	493	3.0	55.50
29380	400	620	132	6.0	596	494	43	64	225	3450	14600	1200	530	950	510	550	5.0	150.00
29480 EM	400	710	185	7.5	645	525	69	89.5	234	6560	26500	1960	450	850	550	615	6.0	310.00
29284	420	580	95	5.0	564	489	30	46	225	1990	9800	815	630	1000	500	525	4.0	75.50
29384	420	650	140	6.0	626	520	49	67.5	235	3740	16000	1290	500	900	535	580	5.0	170.00
29484 EM	420	730	185	7.5	665	545	70	90.5	244	6730	27500	2080	430	850	575	635	6.0	325.00
29288	440	600	95	5.0	585	508	30	46.5	235	2070	10400	850	630	1000	520	545	4.0	78.00
29388 EM	440	680	145	6.0	626	540	49	70.5	249	4490	19300	1560	480	850	560	605	5.0	180.00
29488 EM	440	780	206	9.5	710	577	77	101	257	7820	32000	2320	380	750	605	675	8.0	410.00
29292	460	620	95	5.0	605	530	30	46	245	2070	10600	865	600	950	540	565	4.0	81.00
29392	460	710	150	6.0	685	567	50	72.5	257	4310	19000	1500	450	800	585	630	5.0	215.00
29492 EM	460	800	206	9.5	730	596	77	101.5	268	7990	33500	2450	380	750	630	695	8.0	425.00
29296	480	650	103	5.0	635	556	33	53.5	259	2350	11800	950	560	900	570	595	4.0	98.00
29396	480	730	150	6.0	705	591	50	73.5	270	4370	19600	1530	450	800	610	655	5.0	220.00
29496 EM	480	850	224	9.5	770	625	88	108	280	9550	39000	2800	340	670	660	735	8.0	550.00

©Copyright - K.S.B. Bearings and Components[®]

E' assolutamente vietata qualsiasi riproduzione anche parziale del contenuto di questo catalogo tecnico.
Nella stesura è stata posta la miglior attenzione, tuttavia non si accettano reclami per eventuali errori di stampa e/o omissioni.
Le misure riportate non sono impegnative.
K.S.B. si riserva di modificarne il contenuto senza nessun preavviso.
The reproduction, even partial, of the contained concerning this technical catalogue is forbidden..
Every care has been given the best attention, but we don't accept liability for any printing errors and/or omissions.
The measures are not binding.
K.S.B reserves the right to change its contents without notice.

K.S.B.[®]
Bearings and Components

K.S.B.[®]
Bearings and Components