



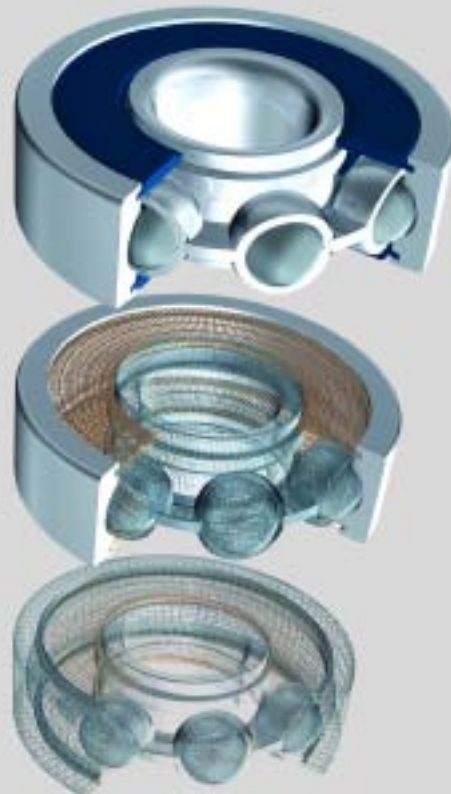
Bearings for your future

Zen Ball Bearings are manufactured to the highest quality for standard and non-standard applications. Our technical department can modify any non-standard bearings to your specific requirements, regardless of quantity.

























Apart from our extensive miniature ball bearing range of more than 1000 different types, ranging from 1-10 mm bore (Including inch dimensions), our range also includes Thin section, Three part thrust, Popular metric and any kind of non standard bearing. We are able to design bearings according to your requirements using new materials like ceramic or special steels for applications in Industry, Medicine, Chemistry and Food Processing.

Our technical department can modify any non-standard bearings to your specific requirements, even for small quantities.

For any items not listed in our catalogue, please contact our experienced sales team.



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Material

S = Rostfreier Stahl / [Stainless Steel](#)
 Kein Präfix / [No Prefix](#) = Chromstahl / [Chrome Steel](#)

Referenz / Bearing type

MF = Metrisch mit Flansch / [Metric with Flange](#)
 MR = Metrisch / [Metric](#)
 R = Zöllig / [Inch](#)
 FR = Zöllig mit Flansch / [Inch with Flange](#)
 F = Metrisch mit Flansch / [Metric with Flange](#)
 Kein Präfix / [No Prefix](#) = Metrisch / [Metric](#)

Typenbezeichnung / Bearing Part Number**Dichtscheiben / Shields**

2Z = Metaldichtscheiben / [Metal Shields](#)
 2RS = Gummidichtscheiben / [Rubber Seals](#)
 2TS = Teflondichtscheiben / [Teflon Seals](#)
 2TZ = Metall / Teflondichtungsscheiben / [Metal / Teflon Shields](#)

Kein Suffix / [No Suffix](#) = Offen / [Open](#)

S	FR	144	-2Z	. . . Abm./Dimen. . . .
	FR	85		”
		635	-2RS	”
S		682X		”

Allgemeine Merkmale / General Details

Material	Komponenten Components		Merkmale Details	Anwendungsbereiche Application
	Ringe Rings	Kugeln Balls		
Kugellagerchromstahl Ball Bearing Chrome Steel 100 Cr6 (Nr. 1.3505)	X	X	Gute Verschleißfestigkeit Hard wearing Schlag- und Korrosionsbeständigkeit Good shock and corrosive resistance	Standard Standard
Rostfreier Stahl Stainless Steel AISI 440 C (Nr. 1.4125) [†]	X	X	Sehr gute Korrosionsbeständigkeit Very good corrosion resistance	Nahrungsmittel, Pharma, Schiffsbau und andere korrosive Umgebungen Food industry, pharmaceutical industry, ship building and other corrosive surroundings

[†]Die statische und dynamische Belastung von AISI 440 C-Lagern liegt bei ca. 75-80% von 100 Cr6-Lagern.

[†]The static and dynamic load rating of AISI 440 C - ball bearings is approximately 75-80% of the 100 Cr6 - ball bearings.

Technische Merkmale / Technical Details

Material	Härte Hardness	Max. Temp. Max. Temp.	C	Si	Mn	P	S	Cr	Mo
100 Cr6 (Nr. 1.3505)	60-64HRC	max. 150°C	0,5~1,10	0,15~0,35	≤0,5	≤0,025	≤0,025	1,3~1,6	≤0,08
AISI 440 C (Nr. 1.4125)	≥58HRC	Max. 230°C	0,95~1,2	≤1,1	≤1,0	≤0,04	≤0,03	16,0~18,0	≤0,75

Toleranzklassen / Tolerance Class

Toleranzklassen Tolerance class	Äquivalenzen / Equivalences	
	ISO	AFBMA
DIN P0	Klasse class 0	ABEC 1
DIN P6	Klasse class 6	ABEC 3
DIN P5	Klasse class 5	ABEC 5

Tolerance of inner ring (ISO)

d(mm)		Δ_{dmp}					Δ_{ds}		V _{dp}								V _{dmp}					
		P0		P6	P5	P4	P4		P0		P6		P5		P4		P0	P6	P5	P4		
							Diameter series		Diameter series		Diameter series		Diameter series		Diameter series							
Over	incl.	Upper	Lower	Lower	Lower	Lower	Upper	Lower	Max.		Max.		Max.		Max.		Max.	Max.	Max.	Max.		
0.6(1)	2.5	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
2.5	10	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
10	18	0	-8	-7	-5	-4	0	-4	10	8	6	9	7	5	5	4	4	3	6	5	3	2
18	30	0	-10	-8	-6	-5	0	-5	13	10	8	10	8	6	6	5	5	4	8	6	3	2.5
30	50	0	-12	-10	-8	-6	0	-6	15	12	9	13	10	8	8	6	6	5	9	8	4	3

Note 1: The upper value of the bore diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamferdimension.

Note 2: According to the revision of ANSI/ABMA Std,20-1996, the classes ABEC1-ABEC3-ABEC5-ABEC7 are equivalent to SS0-CLASS6-CLASS5-CLASS4.

Tolerance of outer ring (ISO)

D(mm)		Δ_{Dmp}					Δ_{Ds}				V _{DP}								V _{Dmp}					
		P0		P6	P5	P4	P0		P6		P5		P4		P0	P6	P5	P4						
							Open	Seal Shield	Open	Seal Shield	Open		Open											
Over	incl.	Upper	Lower	Lower	Lower	Upper	Lower	Max.		Max.		Max.		Max.		Max.	Max.	Max.	Max.					
2.5(1)	6	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	6	5	3	2
6	18	0	-8	-7	-5	-4	0	-4	10	8	6	10	9	7	5	9	5	4	4	3	6	5	3	2
18	30	0	-9	-8	-6	-5	0	-5	12	9	7	12	10	8	6	10	6	5	5	4	7	6	3	2.5
30	50	0	-11	-9	-7	-6	0	-6	14	11	8	16	11	9	7	13	7	5	6	5	8	7	4	3
50	80	0	-13	-11	-9	-7	0	-7	16	13	10	20	14	11	8	16	9	7	7	5	10	8	5	3.5

Note(1) : Size 2.5mm is included in this classification.

Note(2) : The outer ring width variations for CLASS0 and CLASS6 are the same as for the inner ring of the same bearing size.

Radial internal clearance of standard radial ball bearings

Unit μm

"NOMINAL BORE DIAMETER d(mm)		CLEARANCE									
		C2		CN(C0)		C3		C4		C5	
OVER	INCL.	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
10(ONLY)		0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73

Unit μm

$\Delta\text{Bs}(\Delta\text{Cs})^{(2)}$			$\text{VBs}(\text{VCs})^{(2)}$				Kia				Sd		Sia		$d(\text{mm})$	
Single bearing			Inner/outer ring		Inner ring		P0	P6	P5	P4	P5	P4	P5	P4	Over	Incl.
P0	P5	P6	P0	P6	P5	P4										
Upper	Lower	Lower	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.		
0	-40	-40	12	12	5	2.5	10	5	4	2.5	7	3	7	3	0.6(1)	2.5
0	-120	-40	15	15	5	2.5	10	6	4	2.5	7	3	7	3	2.5	10
0	-120	-80	20	20	5	2.5	10	7	4	2.5	7	3	7	3	10	18
0	-120	-120	20	20	5	2.5	13	8	4	3	8	4	8	4	18	30
0	-120	-120	20	20	5	3	15	10	5	4	8	4	8	4	30	50

Note(1) : 0.6mm is included in this classification.

Note(2) : The inner ring width variation is the same for the outer ring of the same bearing size, CLASS5 and CLASS4 referring to outer ring only.

 Unit μm

Kca				SD		Sea		$\text{VCs}^{(2)}$		$\text{D}(\text{mm})$		ΔDis				ΔCis			
P0	P6	P5	P4	P5	P4	P5	P4	P5	P4	Over	Incl.	Flanged type							
												P0	P6	P5	P4	P0	P6	P5	P4
Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Max.	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower		
15	8	5	3	8	4	8	5	5	2.5	2.5(I)	6	+125	-50	0	-25	0	-50	0	-50
15	8	5	3	8	4	8	5	5	2.5	6	18	+125	-50	0	-25	0	-50	0	-50
15	9	6	4	8	4	8	5	5	2.5	18	30	+125	-50	0	-25	0	-50	0	-50
20	10	7	5	8	4	8	5	5	2.5	30	50	+125	-50	0	-25	0	-50	0	-50
25	13	8	5	8	4	10	5	6	3	50	80	+125	-50	0	-25	0	-50	0	-50

Note 1 : The lower value of the outside diameter in this table is not applicable when the distance from the bearing ring face is less than 1.2 times the chamfer dimension.

Note 2 : According to the revision of AFBMA Std20-1978, the classes ABEC1 ABEC3 ABEC5 ABEC7 are equivalent to CLASS0 • CLASS6 • CLASS5 • CLASS4

d : Nominal bore diameter
 Δdmp : Single plane mean bore diameter deviation
 Δds : Deviation of a single bore diameter
 Vdp : Bore diameter variation in a single radial plane
 Vdmp : Mean bore diameter variation
 $\Delta\text{Bs}(\Delta\text{Cs})$: Deviation of a single inner and outer ring width from the nominal dimension
 $\text{VBs}(\text{VCs})$: Variation of a inner and outer ring width
 Kia : Radial runout of assembled bearing inner ring
 Sd : Face runout with bore
 Sia : Assembled bearing inner ring face runout with raceway

D : Nominal outside diameter
 ΔDmp : Single plane mean outside diameter deviation
 ΔDs : Deviation of a single outside diameter
 VDp : Outside diameter variation in a single radial plane
 VDmp : Mean outside diameter variation
 Kea : Radial runout of assembled bearing outer ring
 SD : Variation of a outside surface generatrix inclination with face
 Sea : Assembled bearing outer ring face runout with raceway
 VCs : Variation of the outer ring width
 ΔDis : Flange outside diameter deviation
 ΔCis : Flange width deviation

Wichtig / Important

* Max. Drehzahlen:

Die im Katalog angegebenen Werte sind ungefähre Werte. Abhängig von der Toleranzklasse, Werkstoff, Einbautoleranzen, Befettung, Käfigtype, Umgebungstemperatur, etc., können unterschiedliche Werte realisiert werden. Die maximalen Drehzahlen für RS- und TS-gedichtete Lager sind deutlich geringer. Bitte erfragen Sie die Werte in besonderen Fällen.

* Limiting Speeds :






The values shown in the catalogue are approximated values. Depending on the tolerance class, material, mounting tolerances, lubrication, cage, surrounding temperature, etc., different values can be obtained. The limiting speeds for RS- and TS-shielded bearings are significant lower. Please contact Engineering for special cases.

* Tragzahlen:

Die Tragzahlen und Drehzahlen beziehen sich auf 100Cr6 (Chromstahl), falls nicht anders spezifiziert. Die Werte für rostfreien Stahl sind ungefähr 20% niedriger.







* Load Ratings:

Load ratings and Limiting Speeds are calculated based on material 100Cr6 (Chrome Steel), if not stated different. The rates are approximately 20% lower for stainless steel.

	Design Design	Spezifikation Specification	Vorteile/Nachteile Advantage/Disadvantage
	- Keine Dichtung No seals	Offen Open	Kein Reibungswiderstand No friction Einfache Nachschmierung Easy to relube Starke Verschmutzung No protection against contamination
	2Z Metalldichtscheiben Metal shields	Nichtschleifende Dichtung Non contact seals	Kein Reibungswiderstand No friction Gute Abdichtung gegen Schmutz Good protection against contamination
	2RS Gummidichtscheiben Rubber seals	Schleifende Dichtung aus Kunststoff Contact seals made of synthetic rubber	Erhöhter Reibungswiderstand Higher friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination
	2TS Teflondichtscheiben Teflon seals	Schleifende Dichtung aus Teflon Contact seals made of teflon	Geringer Reibungswiderstand Low friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination Gute chemische Eigenschaften Good chemical characteristics
	2TZ Metalldichtscheibe mit Teflondichtscheibe Teflon seals with metal shields	Schleifende Dichtung aus Teflon Contact seals made of teflon	Geringer Reibungswiderstand Low friction Ausgezeichnete Abdichtung gegen Schmutz Very good protection against contamination Gute chemische Eigenschaften Good chemical characteristics

Schmierung / Lubrication

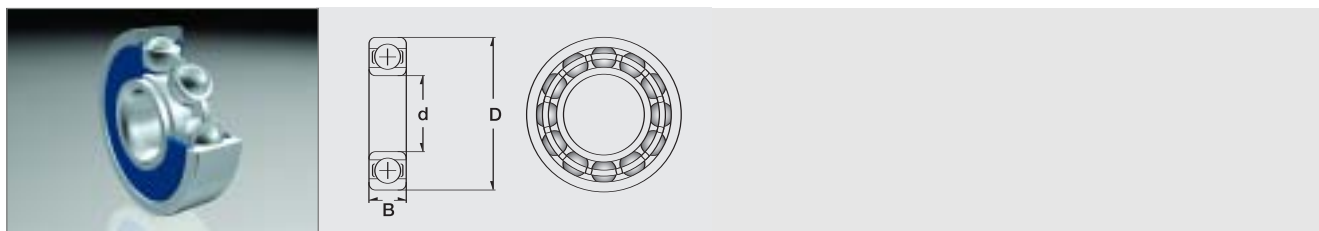
Schmiermittel Lubricant	Anmerkung Remarks	Vorteile/Anwendung Advantages/Applications
Kein Schmiermittel No lubricant	Nur bei Edelstahlagern oder mit Verwendung von Korrosionsschutz Only with stainless steel bearings or with the use of corrosion preventive fluid	Wenn Schmierung vom Kunden gestellt wird When the lubrication is provided by the customer
Fett Grease	Standardfüllung 30-40% Standard filling 30-40%	Lebenslange Schmierung möglich Life-time lubrication is possible Guter Korrosionsschutz Good protection against corrosion Differenzierte Anwendungsmöglichkeiten je nach Fett According to the application a variety of greases can be used
Öl Oil	-	Geringer Reibungswiderstand Low friction Hohe Drehzahlen High revolution

	Referenz Reference	Käfigtype Cage type	Anmerkung Remarks
	FC	Vollkugelig / ohne Käfig Full Complement / No Cage	Geringe Drehzahlen, hohe Belastungswerte Low revolution high load rating
	W	Kronenkäfig Crown Cage	Geringes Gewicht, geringe Reibung Light weight, smooth, low friction
	J	Lappenkäfig Ribbon Cage	Standardkäfig, hohe Lebensdauer Standard cage, good durability
	T9H	Kronenkäfig aus glasfaserverstärktem Kunststoff Glass Fibre Reinforced Cage	Geringes Gewicht, hohe Lebensdauer, hohe Drehzahlen Light weight, strong, high speed
		Massivkäfig aus Kunststoff Phenolic Cage	Geringes Gewicht, hohe Lebensdauer, hohe Drehzahlen Light weight, strong, high speed
	M	Messingkäfig Brass Cage	Geringe Reibung, hohe Lebensdauer, Low friction, good durability

Wichtig / Important

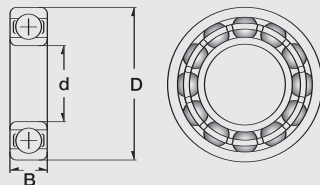
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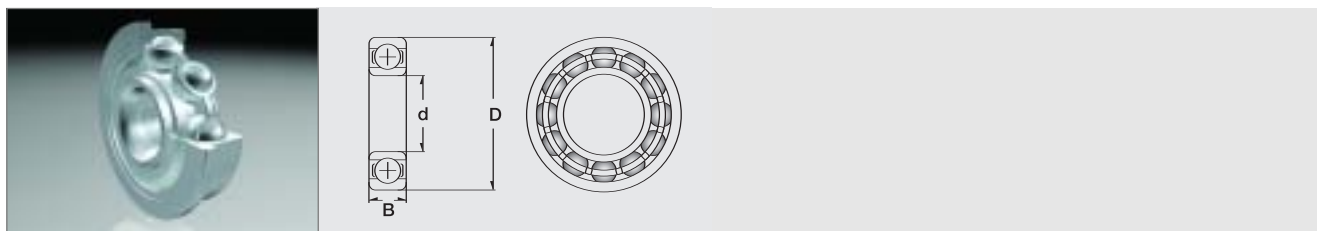
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	1.0	3.0	1.0	681	S681	-	-	-	-
flanged	1.0	3.0	1.0	F 681	SF 681	-	-	-	-
standard	1.0	3.0	1.5	MR 31	SMR 31	-	-	-	-
standard	1.0	4.0	1.6	691	S691	-	-	-	-
flanged	1.0	4.0	1.6	F 691	SF 691	-	-	-	-
standard	1.2	4.0	2.5	-	-	MR 41X-2Z	SMR 41X-2Z	-	-
standard	1.5	4.0	1.2	681X	S681X	-	-	-	-
flanged	1.5	4.0	1.2	F 681X	SF 681X	-	-	-	-
standard	1.5	4.0	2.0	-	-	681X-2Z	S681X-2Z	-	-
flanged	1.5	4.0	2.0	-	-	F 681X-2Z	SF 681X-2Z	-	-
standard	1.5	5.0	1.7	X 1.5	SX 1.5	-	-	-	-
standard	1.5	5.0	2.0	691X	S691X	-	-	-	-
flanged	1.5	5.0	2.0	F 691X	SF 691X	-	-	-	-
standard	1.5	5.0	2.6	-	-	691X-2Z	S691X-2Z	-	-
flanged	1.5	5.0	2.6	-	-	F 691X-2Z	SF 691X-2Z	-	-
standard	1.5	6.0	2.5	601X	S601X	-	-	-	-
flanged	1.5	6.0	2.5	F 601X	SF 601X	-	-	-	-
standard	1.5	6.0	3.0	-	-	601X-2Z	S601X-2Z	-	-
flanged	1.5	6.0	3.0	-	-	F 601X-2Z	SF 601X-2Z	-	-
standard	2.0	4.0	1.2	672	S672	-	-	-	-
standard	2.0	5.0	1.5	682	S682	-	-	-	-
flanged	2.0	5.0	1.5	F 682	SF 682	-	-	-	-
standard	2.0	5.0	2.0	MR 52	SMR 52	-	-	-	-
standard	2.0	5.0	2.3	-	-	682-2Z	S682-2Z	-	-
flanged	2.0	5.0	2.3	-	-	F 682-2Z	SF 682-2Z	-	-
standard	2.0	5.0	2.5	-	-	MR 52-2Z	SMR 52-2Z	-	-
flanged	2.0	5.0	2.5	-	-	MF 52-2Z	SMF 52-2Z	-	-
standard	2.0	6.0	2.3	692	S692	692-2ZW2.3	S692-2ZW2.3	-	-
flanged	2.0	6.0	2.3	F 692	SF 692	F 692-2ZW2.3	SF 692-2ZW2.3	-	-
standard	2.0	6.0	2.5	MR 62	SMR 62	MR 62-2Z	SMR 62-2Z	-	-
flanged	2.0	6.0	2.5	MF 62	SMF 62	MF 62-2Z	SMF 62-2Z	-	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
96	26	130.0	150.0	W	< 1 g
96	26	130.0	150.0	W	< 1 g
96	26	130.0	150.0	W	< 1 g
141	37	100.0	120.0	W	< 1 g
141	37	100.0	120.0	W	< 1 g
112	33	110.0	130.0	W	< 1 g
112	33	100.0	120.0	W	< 1 g
112	33	100.0	120.0	W	< 1 g
112	33	100.0	120.0	W	< 1 g
112	33	100.0	120.0	W	< 1 g
169	50	85.0	100.0	W	< 1 g
169	50	85.0	100.0	W	< 1 g
169	50	85.0	100.0	W	< 1 g
169	50	85.0	100.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
124	40	91.0	104.0	W	< 1 g
169	50	85.0	100.0	W,J	< 1 g
169	50	85.0	100.0	W,J	< 1 g
169	50	85.0	100.0	W,J	< 1 g
169	50	85.0	100.0	W,J	< 1 g
169	50	85.0	100.0	W,J	< 1 g
169	50	85.0	100.0	W	< 1 g
169	50	85.0	100.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g



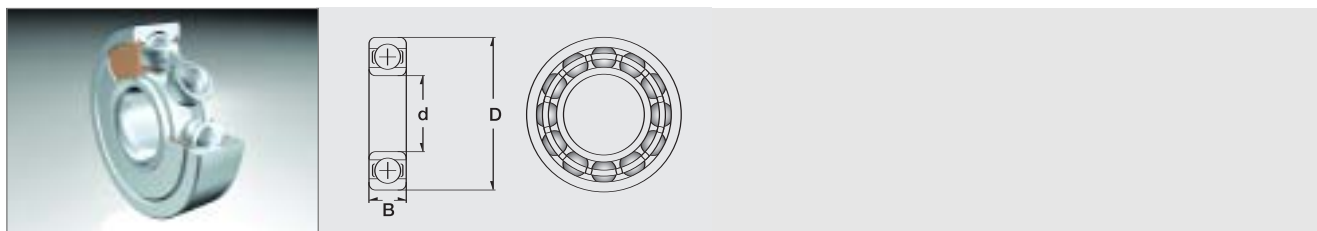
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	2.0	6.0	3.0	-	-	692-2Z	S692-2Z	-	-
flanged	2.0	6.0	3.0	-	-	F 692-2Z	SF 692-2Z	-	-
standard	2.0	7.0	2.5	602	S602	-	-	-	-
standard	2.0	7.0	2.8	MR 72	SMR 72	-	-	-	-
standard	2.0	7.0	3.5	-	-	602-2Z	S602-2Z	-	-
flanged	2.0	7.0	3.5	-	-	F 602-2Z	SF 602-2Z	-	-
standard	2.0	7.0	3.0	-	-	MR 72-2Z	SMR 72-2Z	-	-
flanged	2.0	7.0	3.0	-	-	MF 72-2Z	SMF 72-2Z	-	-
standard	2.5	6.0	1.8	682X	S682X	-	-	-	-
flanged	2.5	6.0	1.8	F 682X	SF 682X	-	-	-	-
standard	2.5	6.0	2.6	-	-	682X-2Z	S682X-2Z	-	-
flanged	2.5	6.0	2.6	-	-	F 682X-2Z	SF 682X-2Z	-	-
standard	2.5	7.0	2.5	692X	S692X	-	-	-	-
flanged	2.5	7.0	2.5	F 692X	SF 692X	-	-	-	-
standard	2.5	7.0	3.0	-	-	X 2.5-2Z	SX 2.5-2Z	-	-
standard	2.5	7.0	3.5	-	-	692X-2Z	S692X-2Z	-	-
flanged	2.5	7.0	3.5	-	-	F 692X-2Z	SF 692X-2Z	-	-
standard	2.5	8.0	2.5	MR 82X	SMR 82X	-	-	-	-
standard	2.5	8.0	2.8	602X	S602X	-	-	-	-
flanged	2.5	8.0	2.8	F 602X	SF 602X	-	-	-	-
standard	2.5	8.0	4.0	-	-	602X-2Z	S602X-2Z	-	-
flanged	2.5	8.0	4.0	-	-	F 602X-2Z	SF 602X-2Z	-	-
standard	3.0	6.0	2.0	MR 63	SMR 63	-	-	-	-
flanged	3.0	6.0	2.0	MF 63	SMF 63	-	-	-	-
standard	3.0	6.0	2.5	-	-	MR 63-2Z	SMR 63-2Z	-	-
flanged	3.0	6.0	2.5	-	-	MF 63-2Z	SMF 63-2Z	-	-
standard	3.0	7.0	2.0	683	S683	-	-	-	-
flanged	3.0	7.0	2.0	F 683	SF 683	-	-	-	-
standard	3.0	7.0	3.0	-	-	683-2Z	S683-2Z	683-2TS	S683-2TS
flanged	3.0	7.0	3.0	-	-	F 683-2Z	SF 683-2Z	-	-
standard	3.0	8.0	2.5	MR 83	SMR 83	-	-	-	-
flanged	3.0	8.0	2.5	MF 83	SMF 83	-	-	-	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
330	99	75.0	90.0	W	< 1 g
330	99	75.0	90.0	W	< 1 g
386	129	60.0	71.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	60.0	71.0	W	< 1 g
386	129	60.0	71.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
386	129	63.0	75.0	W	< 1 g
558	180	60.0	67.0	W	< 1 g
552	177	60.0	71.0	W	< 1 g
552	177	60.0	71.0	W	< 1 g
552	177	60.0	71.0	W	< 1 g
552	177	60.0	71.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
209	74	71.0	80.0	W	< 1 g
311	112	63.0	75.0	W,J	< 1 g
311	112	63.0	75.0	W,J	< 1 g
311	112	63.0	75.0	W,J	< 1 g
311	112	63.0	75.0	W,J	< 1 g
395	141	60.0	67.0	W	< 1 g
395	141	60.0	67.0	W	< 1 g



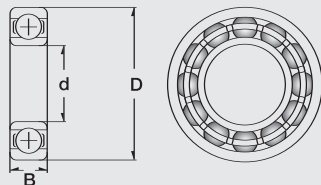
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	3.0	8.0	3.0	693	S693	-	-	-	-
flanged	3.0	8.0	3.0	F 693	SF 693	-	-	-	-
standard	3.0	8.0	3.0	-	-	MR 83-2Z	SMR 83-2Z	-	-
flanged	3.0	8.0	3.0	-	-	MF 83-2Z	SMF 83-2Z	-	-
standard	3.0	8.0	4.0	-	-	693-2Z	S693-2Z	-	-
flanged	3.0	8.0	4.0	-	-	F 693-2Z	SF 693-2Z	-	-
standard	3.0	9.0	2.5	MR 93	SMR 93	-	-	-	-
flanged	3.0	9.0	2.5	MF 93	SMF 93	-	-	-	-
standard	3.0	9.0	3.0	603	S603	-	-	-	-
flanged	3.0	9.0	3.0	F 603	SF 603	-	-	-	-
standard	3.0	9.0	4.0	-	-	MR 93-2Z	SMR 93-2Z	-	-
flanged	3.0	9.0	4.0	-	-	MF 93-2Z	SMF 93-2Z	-	-
standard	3.0	9.0	5.0	-	-	603-2Z	S603-2Z	-	-
flanged	3.0	9.0	5.0	-	-	F 603-2Z	SF 603-2Z	-	-
standard	3.0	10.0	4.0	623	S623	623-2Z	S623-2Z	623-2RS	S623-2RS
flanged	3.0	10.0	4.0	F 623	SF 623	F 623-2Z	SF 623-2Z	F 623-2RS	SF 623-2RS
standard	3.0	13.0	5.0	-	-	633-2Z	S633-2Z	-	-
standard	3.5	9.0	4.0	-	-	MR 93X-2Z	SMR 93X-2Z	-	-
standard	4.0	7.0	2.0	MR 74	SMR 74	-	-	-	-
flanged	4.0	7.0	2.0	MF 74	SMF 74	-	-	-	-
standard	4.0	7.0	2.5	-	-	MR 74-2Z	SMR 74-2Z	-	-
flanged	4.0	7.0	2.5	-	-	MF 74-2Z	SMF 74-2Z	-	-
standard	4.0	8.0	2.0	MR 84	SMR 84	-	-	-	-
flanged	4.0	8.0	2.0	MF 84	SMF 84	-	-	-	-
standard	4.0	8.0	3.0	-	-	MR 84-2Z	SMR 84-2Z	MR 84-2RS	SMR 84-2RS
flanged	4.0	8.0	3.0	-	-	MF 84-2Z	SMF 84-2Z	MF 84-2RS	SMF 84-2RS
standard	4.0	9.0	2.5	684	S684	-	-	-	-
flanged	4.0	9.0	2.5	F 684	SF 684	-	-	-	-
standard	4.0	9.0	4.0	-	-	684-2Z	S684-2Z	684-2RS	S684-2RS
flanged	4.0	9.0	4.0	-	-	F 684-2Z	SF 684-2Z	F 684-2RS	SF 684-2RS
standard	4.0	10.0	3.0	MR 104	SMR 104	-	-	-	-
flanged	4.0	10.0	3.0	MF 104	SMF 104	-	-	-	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
558	180	60.0	67.0	W	< 1 g
558	180	60.0	67.0	W	< 1 g
395	141	60.0	67.0	W	< 1 g
395	141	60.0	67.0	W	< 1 g
558	180	60.0	67.0	W	< 1 g
558	180	60.0	67.0	W	< 1 g
571	189	56.0	67.0	W	< 1 g
571	189	56.0	67.0	W	< 1 g
571	189	56.0	67.0	W	< 2 g
571	189	56.0	67.0	W	< 2 g
571	189	56.0	67.0	W	< 2 g
571	189	56.0	67.0	W	< 2 g
631	219	50.0	60.0	W,J	< 2 g
631	219	50.0	60.0	W,J	< 2 g
1301	488	40.0	48.0	J	< 4 g
571	189	56.0	67.0	W	< 3 g
255	108	60.0	67.0	W	< 1 g
255	108	60.0	67.0	W	< 1 g
255	108	60.0	67.0	W	< 1 g
255	108	60.0	67.0	W	< 1 g
395	141	56.0	67.0	W	< 1 g
395	141	56.0	67.0	W	< 1 g
395	141	56.0	67.0	W	< 2 g
395	141	56.0	67.0	W	< 2 g
641	227	53.0	63.0	W,J	< 2 g
641	227	53.0	63.0	W,J	< 2 g
641	227	53.0	63.0	W,J	< 2 g
641	227	53.0	63.0	W,J	< 2 g
711	272	48.0	56.0	W,J	< 2 g
711	272	48.0	56.0	W,J	< 2 g



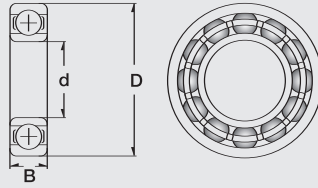
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	4.0	10.0	4.0	-	-	MR 104-2Z	SMR 104-2Z	MR 104-2TS	SMR 104-2TS
flanged	4.0	10.0	4.0	-	-	MF 104-2Z	SMF 104-2Z	MF 104-2TS	SMF 104-2TS
standard	4.0	11.0	4.0	694	S694	694-2Z	S694-2Z	694-2RS	S694-2RS
flanged	4.0	11.0	4.0	F 694	SF 694	F 694-2Z	SF 694-2Z	F 694-2RS	SF 694-2RS
standard	4.0	12.0	4.0	604	S604	604-2Z	S604-2Z	604-2RS	S604-2RS
flanged	4.0	12.0	4.0	F 604	SF 604	F 604-2Z	SF 604-2Z	F 604-2RS	SF 604-2RS
standard	4.0	13.0	5.0	624	S624	624-2Z	S624-2Z	624-2RS	S624-2RS
flanged	4.0	13.0	5.0	F 624	SF 624	F 624-2Z	SF 624-2Z	F 624-2RS	SF 624-2RS
standard	4.0	16.0	5.0	634	S634	634-2Z	S634-2Z	634-2RS	S634-2RS
flanged	4.0	16.0	5.0	F 634	SF 634	F 634-2Z	SF 634-2Z	F 634-2RS	SF 634-2RS
standard	5.0	8.0	2.0	MR 85	SMR 85	-	-	-	-
flanged	5.0	8.0	2.0	MF 85	SMF 85	-	-	-	-
standard	5.0	8.0	2.5	-	-	MR 85-2Z	SMR 85-2Z	-	-
flanged	5.0	8.0	2.5	-	-	MF 85-2Z	SMF 85-2Z	-	-
standard	5.0	9.0	2.5	MR 95	SMR 95	-	-	-	-
flanged	5.0	9.0	2.5	MF 95	SMF 95	-	-	-	-
standard	5.0	9.0	3.0	-	-	MR 95-2Z	SMR 95-2Z	MR 95-2TS	SMR 95-2TS
flanged	5.0	9.0	3.0	-	-	MF 95-2Z	SMF 95-2Z	MF 95-2TS	SMF 95-2TS
standard	5.0	10.0	3.0	MR 105	SMR 105	-	-	-	-
flanged	5.0	10.0	3.0	MF 105	SMF 105	-	-	-	-
standard	5.0	10.0	4.0	-	-	MR 105-2Z	SMR 105-2Z	MR 105-2RS	SMR 105-2RS
flanged	5.0	10.0	4.0	-	-	MF 105-2Z	SMF 105-2Z	MF 105-2RS	SMF 105-2RS
standard	5.0	11.0	3.0	S685	S685	-	-	-	-
flanged	5.0	11.0	3.0	F 685	SF 685	-	-	-	-
standard	5.0	11.0	4.0	-	-	MR 115-2Z	SMR 115-2Z	MR 115-2RS	SMR 115-2RS
flanged	5.0	11.0	4.0	-	-	MF 115-2Z	SMF 115-2Z	MF 115-2RS	SMF 115-2RS
standard	5.0	11.0	5.0	-	-	685-2Z	S685-2Z	685-2RS	S685-2RS
flanged	5.0	11.0	5.0	-	-	F 685-2Z	SF 685-2Z	F 685-2RS	SF 685-2RS
standard	5.0	13.0	4.0	695	S695	695-2Z	S695-2Z	695-2RS	S695-2RS
flanged	5.0	13.0	4.0	F 695	SF 695	F695-2Z	SF695-2Z	F695-2RS	SF695-2RS
standard	5.0	13.0	5.0	695W5	S695W5	695-2ZW5	S695-2Z W5	695-2RSW5	S695-2RSW5

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
711	272	48.0	56.0	W,J	< 2 g
711	272	48.0	56.0	W,J	< 2 g
957	350	48.0	56.0	W,J	< 2 g
957	350	48.0	56.0	W,J	< 2 g
957	350	48.0	56.0	W,J	< 3 g
957	350	48.0	56.0	W,J	< 3 g
1301	488	40.0	48.0	W,J	< 4 g
1301	488	40.0	48.0	W,J	< 4 g
1340	523	36.0	43.0	W,J	< 6 g
1340	523	36.0	43.0	W,J	< 6 g
218	90	53.0	63.0	W	< 1 g
218	90	53.0	63.0	W	< 1 g
218	90	53.0	63.0	W	< 1 g
218	90	53.0	63.0	W	< 1 g
431	169	50.0	60.0	W	< 1 g
431	169	50.0	60.0	W	< 1 g
431	169	50.0	60.0	W	< 1 g
431	169	50.0	60.0	W	< 1 g
431	169	50.0	60.0	W,J	< 2 g
431	169	50.0	60.0	W,J	< 2 g
431	169	50.0	60.0	W,J	< 2 g
431	169	50.0	60.0	W,J	< 2 g
716	282	45.0	53.0	W	< 2 g
716	282	45.0	53.0	W	< 2 g
716	282	45.0	53.0	W,J	< 1 g
716	282	45.0	53.0	W,J	< 1 g
716	282	45.0	53.0	W	< 2 g
716	282	45.0	53.0	W	< 2 g
1077	432	43.0	50.0	W,J	< 3 g
1077	432	43.0	50.0	W,J	< 3 g
1077	432	43.0	50.0	W,J	< 3 g



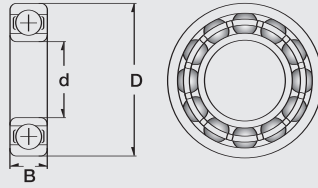
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	5.0	14.0	5.0	605	S605	605-2Z	S605-2Z	605-2RS	S605-2RS
flanged	5.0	14.0	5.0	F 605	SF 605	F 605-2Z	SF 605-2Z	F 605-2RS	SF 605-2RS
standard	5.0	14.0	7.0	Zweihohiges Radiallager	Double Row Bearing	30/5-2Z	-	30/5-2RS	-
standard	5.0	16.0	5.0	625	S625	625-2Z	S625-2Z	625-2RS	S625-2RS
flanged	5.0	16.0	5.0	F 625	SF 625	F 625-2Z	SF 625-2Z	F 625-2RS	SF 625-2RS
standard	5.0	19.0	6.0	635	S635	635-2Z	S635-2Z	635-2RS	S635-2RS
flanged	5.0	19.0	6.0	F 635	SF 635	F 635-2Z	SF 635-2Z	F 635-2RS	SF 635-2RS
standard	6.0	10.0	2.5	MR 106	SMR 106	-	-	-	-
flanged	6.0	10.0	2.5	MF 106	SMF 106	-	-	-	-
standard	6.0	10.0	3.0	-	-	MR 106-2Z	SMR 106-2Z	MR 106-2RS	SMR 106-2RS
flanged	6.0	10.0	3.0	-	-	MF 106-2Z	SMF 106-2Z	MF 106-2RS	SMF 106-2RS
standard	6.0	12.0	3.0	MR 126	SMR 126	-	-	-	-
flanged	6.0	12.0	3.0	MF 126	SMF 126	-	-	-	-
standard	6.0	12.0	4.0	-	-	MR 126-2Z	SMR 126-2Z	MR 126-2RS	SMR 126-2RS
flanged	6.0	12.0	4.0	-	-	MF 126-2Z	SMF 126-2Z	MF 126-2RS	SMF 126-2RS
standard	6.0	13.0	3.5	686	S686	-	-	-	-
flanged	6.0	13.0	3.5	F 686	SF 686	-	-	-	-
standard	6.0	13.0	4.5	-	-	686-2ZW4.5	S686-2ZW4.5	686-2TS4.5	S686-2TS4.5
standard	6.0	13.0	5.0	686W5	S686W5	686-2Z	S686-2Z	686-2RS	S686-2RS
flanged	6.0	13.0	5.0			F 686-2Z	SF 686-2Z	F 686-2RS	SF 686-2RS
standard	6.0	15.0	5.0	696W5	S696W5	696-2ZW5	S696-2ZW5	696-2RSW5	S696-2RSW5
flanged	6.0	15.0	5.0	F 696	SF 696	F 696-2Z	SF 696-2Z	F 696-2RS	SF 696-2RS
standard	6.0	16.0	5.0	696A	S696A	696A-2Z	S696A-2Z	696A-2RS	S696A-2RS
flanged	6.0	16.0	5.0	F 696A	SF 696A	F 696A-2Z	SF 696A-2Z	F 696A-RS	SF 696A-2RS
standard	6.0	17.0	6.0	606	S606	606-2Z	S606-2Z	606-2RS	S606-2RS
flanged	6.0	17.0	6.0	F 606	SF 606	F 606-2Z	SF 606-2Z	F 606-2RS	SF 606-2RS
standard	6.0	17.0	6.0	Zweihohiges Radiallager	Double Row Bearing	30/6-2Z	-	30/6-2RS	-
standard	6.0	19.0	6.0	626	S626	626-2Z	S626-2Z	626-2RS	S626-2RS
flanged	6.0	19.0	6.0	F 626	SF 626	F 626-2Z	SF 626-2Z	F 626-2RS	SF 626-2RS
standard	6.0	22.0	7.0	636	S636	636-2Z	S636-2Z	636-2RS	S636-2RS
standard	7.0	11.0	2.5	MR 117	SMR 117	-	-	-	-
flanged	7.0	11.0	2.5	MF 117	SMF 117	-	-	-	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
1329	507	40.0	50.0	W,J	< 5 g
1329	507	40.0	50.0	W,J	< 5 g
2020	930	30.0	38.0	J	< 8 g
1729	675	36.0	43.0	W,J	< 6 g
1729	675	36.0	43.0	W,J	< 6 g
2336	896	32.0	40.0	J	< 8 g
2336	896	32.0	40.0	J	< 10 g
496	218	45.0	53.0	W	< 1 g
496	218	45.0	53.0	W	< 1 g
496	218	45.0	53.0	W	< 1 g
496	218	45.0	53.0	W	< 1 g
716	295	43.0	50.0	W,J	< 2 g
716	295	43.0	50.0	W,J	< 2 g
716	295	43.0	50.0	W,J	< 2 g
716	295	43.0	50.0	W,J	< 2 g
1082	442	40.0	50.0	W,J	< 3 g
1082	442	40.0	50.0	W,J	< 4 g
1082	442	40.0	50.0	W,J	< 4 g
1082	442	40.0	50.0	W,J	< 4 g
1082	442	40.0	50.0	W,J	< 4 g
1082	442	40.0	50.0	W,J	< 4 g
1340	523	40.0	45.0	W,J	< 4 g
1340	523	40.0	45.0	W,J	< 4 g
1340	523	40.0	45.0	J	< 7 g
1340	523	40.0	45.0	J	< 7 g
2263	846	38.0	45.0	J	< 7 g
2263	846	38.0	45.0	J	< 8 g
3080	1450	30.0	39.0	J	< 10 g
2336	896	32.0	40.0	J	< 8 g
2336	896	32.0	40.0	J	< 10 g
3333	1423	30.0	36.0	J	< 5 g
455	202	43.0	50.0	W	< 1 g
455	202	43.0	50.0	W	< 1 g



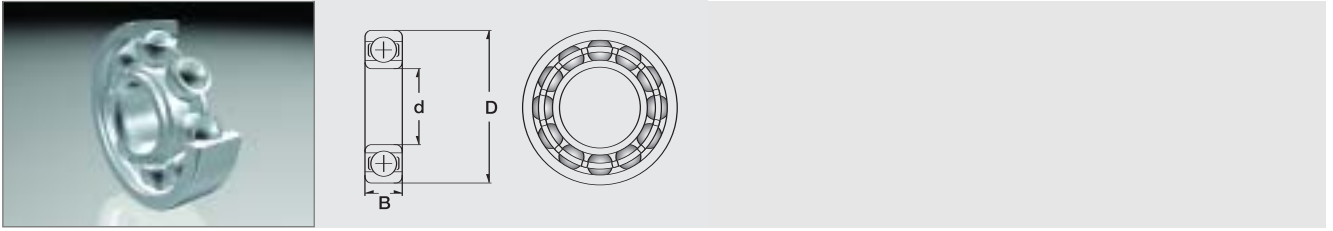
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	7.0	11.0	3.0	-	-	MR 117-2Z	SMR 117-2Z	MR 117-2RS	SMR 117-2RS
flanged	7.0	11.0	3.0	-	-	MF 117-2Z	SMF 117-2Z	MF 117-2RS	SMF 117-2RS
standard	7.0	13.0	3.0	MR 137	SMR 137	-	-	-	-
flanged	7.0	13.0	3.0	MF 137	SMF 137	-	-	-	-
standard	7.0	13.0	4.0	-	-	MR 137-2Z	SMR 137-2Z	MR 137-2RS	SMR 137-2RS
flanged	7.0	13.0	4.0	-	-	MF 137-2Z	SMF 137-2Z	MF 137-2RS	SMF 137-2RS
standard	7.0	14.0	3.5	687	S687	-	-	-	-
flanged	7.0	14.0	3.5	F 687	SF 687	-	-	-	-
standard	7.0	14.0	5.0	-	-	687-2Z	S687-2Z	687-2RS	S687-2RS
flanged	7.0	14.0	5.0	-	-	F 687-2Z	SF 687-2Z	F 687-2RS	SF 687-2RS
standard	7.0	17.0	5.0	697	S697	697-2Z	S697-2Z	697-2RS	S697-2RS
flanged	7.0	17.0	5.0	F 697	SF 697	F 697-2Z	SF 697-2Z	F 697-2RS	SF 697-2RS
standard	7.0	19.0	6.0	607	S607	607-2Z	S607-2Z	607-2RS	S607-2RS
flanged	7.0	19.0	6.0	F 607	SF 607	F 607-2Z	SF 607-2Z	F 607-2RS	SF 607-2RS
standard	7.0	19.0	10.0	Zweireihiges Radiallager	Double Row Bearing	30/7-2Z	-	30/7-2RS	-
standard	7.0	22.0	7.0	627	S627	627-2Z	S627-2Z	627-2RS	S627-2RS
flanged	7.0	22.0	7.0	F 627	SF 627	F 627-2Z	SF 627-2Z	F 627-2RS	SF 627-2RS
standard	8.0	12.0	2.5	MR 128	SMR 128	-	-	-	-
flanged	8.0	12.0	2.5	MF 128	SMF 128	-	-	-	-
standard	8.0	12.0	3.5	-	-	MR 128-2Z	SMR 128-2Z	MR 128-2RS	SMR 128-2RS
flanged	8.0	12.0	3.5	-	-	MF 128-2Z	SMF 128-2Z	MF 128-2RS	SMF 128-2RS
standard	8.0	14.0	3.5	MR 148	SMR 148	-	-	-	-
flanged	8.0	14.0	3.5	MF 148	SMF 148	-	-	-	-
standard	8.0	14.0	4.0	-	-	MR 148-2Z	SMR 148-2Z	MR 148-2RS	SMR 148-2RS
flanged	8.0	14.0	4.0	-	-	MF 148-2Z	SMF 148-2Z	MF 148-2RS	SMF 148-2RS
standard	8.0	16.0	4.0	688	S688	688-2ZW4	S688-2ZW4	688-2RSW4	S688-2RSW4
flanged	8.0	16.0	4.0	F 688	SF 688	F 688-2ZW4	SF 688-2ZW4	F 688-2RSW4	SF 688-2RSW4
standard	8.0	16.0	5.0	688W5	S688W5	688-2Z	S688-2Z	688-2RS	S688-2RS
flanged	8.0	16.0	5.0	F 688W5	SF 688W5	F 688-2Z	SF 688-2Z	F 688-2RS	SF 688-2RS
standard	8.0	16.0	6.0	688W6	S688W6	688-2ZW6	S688-2ZW6	688-2RSW6	S688-2RSW6
flanged	8.0	16.0	6.0	F 688W6	SF 688W6	F 688-2ZW6	SF 688-2ZW6	F 688-2RSW6	SF 688-2RSW6
standard	8.0	19.0	6.0	698	S698	698-2Z	S698-2Z	698-2RS	S698-2RS
flanged	8.0	19.0	6.0	F 698	SF 698	F 698-2Z	SF 698-2Z	F 698-2RS	SF 698-2RS

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
455	202	43.0	50.0	W	< 1 g
455	202	43.0	50.0	W	< 1 g
541	276	40.0	48.0	W	< 3 g
541	276	40.0	48.0	W	< 3 g
541	276	40.0	48.0	W	< 3 g
541	276	40.0	48.0	W	< 3 g
1173	513	40.0	50.0	W,J	< 4 g
1173	513	40.0	50.0	W,J	< 4 g
1173	513	40.0	50.0	W,J	< 4 g
1173	513	40.0	50.0	W,J	< 4 g
1605	719	36.0	43.0	J	< 6 g
1605	719	36.0	43.0	J	< 6 g
2336	896	36.0	43.0	J	< 8 g
2336	896	36.0	43.0	J	< 10 g
3650	2000	28.0	30.0	J	< 12 g
3287	1379	30.0	36.0	J	< 14 g
3287	1379	30.0	36.0	J	< 15 g
543	274	40.0	48.0	W	< 1 g
543	274	40.0	48.0	W	< 2 g
543	274	40.0	48.0	W	< 2 g
543	274	40.0	48.0	W	< 2 g
817	386	38.0	45.0	W	< 3 g
817	386	38.0	45.0	W	< 3 g
817	386	38.0	45.0	W	< 3 g
817	386	38.0	45.0	W	< 3 g
1252	592	36.0	43.0	W,J	< 4 g
1252	592	36.0	43.0	W,J	< 4 g
1252	592	36.0	43.0	W,J	< 4 g
1252	592	36.0	43.0	W,J	< 4 g
1252	592	36.0	43.0	W,J	< 5 g
1252	592	36.0	43.0	W,J	< 5 g
2237	917	36.0	43.0	J	< 8 g
2237	917	36.0	43.0	J	< 8 g



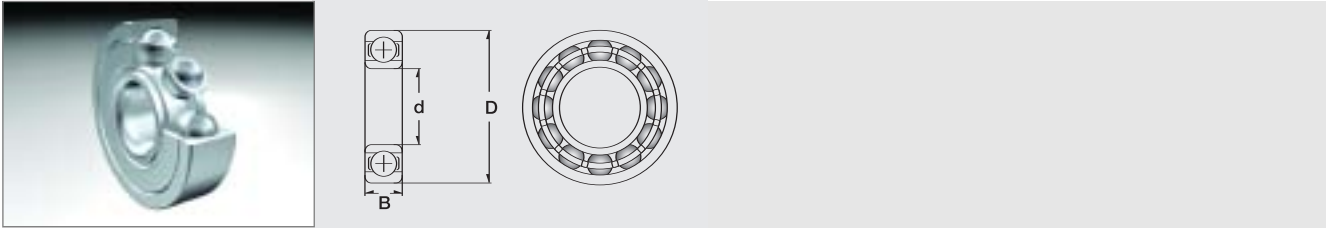
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	8.0	22.0	6.0	608W6	S608W6	608-2ZW6	S608-2ZW6	608-2RSW6	S608-2RSW6
standard	8.0	22.0	7.0	608	S608	608-2Z	S608-2Z	608-2RS	S608-2RS
flanged	8.0	22.0	7.0	F 608	SF 608	F 608-2Z	SF 608-2Z	F 608-2RS	SF 608-2RS
standard	8.0	22.0	11.0	-	-	630/8-2Z	-	630/8-2RS	-
standard	8.0	22.0	11.0	Zweireihiges Radiallager	Double Row Bearing	30/8-2Z	-	30/8-2RS	-
standard	8.0	24.0	7.0	608/24	S608/24	608/24-2Z	S608/24-2Z	608/24-2RS	S608/24-2RS
standard	8.0	24.0	8.0	628	S628	628-2Z	S628-2Z	628-2RS	S628-2RS
flanged	8.0	24.0	8.0	F 628	SF 628	F 628-2Z	SF 628-2Z	F 628-2RS	SF 628-2RS
standard	8.0	26.0	7.0	608/26	S608/26	608/26-2Z	S608/26-2Z	608/26-2RS	S608/26-2RS
standard	8.0	28.0	9.0	638	S638	638-2Z	S638-2Z	638-2RS	S638-2RS
standard	9.0	14.0	3.0	679	S679	-	-	-	-
standard	9.0	17.0	4.0	689	S689	-	-	-	-
flanged	9.0	17.0	4.0	F 689	SF 689	-	-	-	-
standard	9.0	17.0	5.0	-	-	689-2Z	S689-2Z	689-2RS	S689-2RS
flanged	9.0	17.0	5.0	-	-	F 689-2Z	SF 689-2Z	F 689-2RS	SF 689-2RS
standard	9.0	17.0	6.0	689W6	S689W6	689-2ZW6	S689-2ZW6	689-2RSW6	S689-2RSW6
standard	9.0	20.0	6.0	699	S699	699-2Z	S699-2Z	699-2RS	S699-2RS
flanged	9.0	20.0	6.0	F 699	SF 699	F 699-2Z	SF 699-2Z	F 699-2RS	SF 699-2RS
standard	9.0	24.0	7.0	609	S609	609-2Z	S609-2Z	609-2RS	S609-2RS
flanged	9.0	24.0	7.0	F 609	SF 609	F 609-2Z	SF 609-2Z	F 609-2RS	SF 609-2RS
standard	9.0	26.0	8.0	629	S629	629-2Z	S629-2Z	629-2RS	S629-2RS
flanged	9.0	26.0	8.0	F 629	SF 629	F 629-2Z	SF 629-2Z	F 629-2RS	SF 629-2RS

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
3293	1379	34.0	40.0	J	< 13 g
3293	1379	34.0	40.0	J	< 14 g
3293	1379	34.0	40.0	J	< 15 g
3293	1379	34.0	40.0	J	< 19 g
5070	2580	30.0	36.0	J	< 20 g
3293	1379	34.0	40.0	J	< 25 g
3333	1423	28.0	34.0	J	< 18 g
3333	1423	28.0	34.0	J	< 20 g
3293	1379	34.0	40.0	J	< 28 g
4563	1983	28.0	34.0	J	< 31 g
919	468	36.0	42.0	W	< 3 g
1327	668	36.0	43.0	J	< 5 g
1327	668	36.0	43.0	J	< 5 g
1327	668	36.0	43.0	J	< 5 g
1327	668	36.0	43.0	J	< 5 g
1327	668	36.0	43.0	J	< 5 g
2467	1081	34.0	40.0	J	< 8 g
2467	1081	34.0	40.0	J	< 10 g
3356	1444	32.0	38.0	J	< 16 g
3356	1444	32.0	38.0	J	< 18 g
4575	1983	28.0	34.0	J	< 22 g
4575	1983	28.0	34.0	J	< 24 g

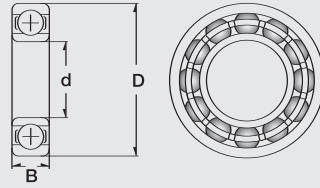


	Dimension (mm)			Dimension (inch)			Dimension (inch)		
	d	D	B	d	D	B	d	D	B
standard or flanged									
standard	1.984	6.350	2.380	0.0781	0.2500	0.0937	5/64	1/4	3/32
flanged	1.984	6.350	2.380	0.0781	0.2500	0.0937	5/64	1/4	3/32
standard	1.984	6.350	3.571	0.0781	0.2500	0.1406	5/64	1/4	9/64
flanged	1.984	6.350	3.571	0.0781	0.2500	0.1406	5/64	1/4	9/64
standard	2.380	4.763	1.588	0.0937	0.1875	0.0625	3/32	3/16	1/16
flanged	2.380	4.763	1.588	0.0937	0.1875	0.0625	3/32	3/16	1/16
standard	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32
flanged	2.380	4.763	2.380	0.0937	0.1875	0.0937	3/32	3/16	3/32
standard	2.380	7.938	2.779	0.0937	0.3125	0.1094	3/32	5/16	7/64
flanged	2.380	7.938	2.779	0.0937	0.3125	0.1094	3/32	5/16	7/64
standard	2.380	7.938	3.571	0.0937	0.3125	0.1406	3/32	5/16	9/64
flanged	2.380	7.938	3.571	0.0937	0.3125	0.1406	3/32	5/16	9/64
standard	3.175	6.350	2.380	0.1250	0.2500	0.0937	1/8	1/4	3/32
flanged	3.175	6.350	2.380	0.1250	0.2500	0.0937	1/8	1/4	3/32
standard	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64
flanged	3.175	6.350	2.779	0.1250	0.2500	0.1094	1/8	1/4	7/64
standard	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64
flanged	3.175	7.938	2.779	0.1250	0.3125	0.1094	1/8	5/16	7/64
standard	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64
flanged	3.175	7.938	3.571	0.1250	0.3125	0.1406	1/8	5/16	9/64
standard	3.175	9.525	2.779	0.1250	0.3750	0.1094	1/8	3/8	7/64
flanged	3.175	9.525	2.779	0.1250	0.3750	0.1094	1/8	3/8	7/64
standard	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64
flanged	3.175	9.525	3.571	0.1250	0.3750	0.1406	1/8	3/8	9/64
standard	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32
flanged	3.175	9.525	3.967	0.1250	0.3750	0.1562	1/8	3/8	5/32
standard	3.175	12.700	4.366	0.1250	0.5000	0.1719	1/8	1/2	11/64
flanged	3.175	12.700	4.366	0.1250	0.5000	0.1719	1/8	1/2	11/64
standard	3.967	7.938	2.779	0.1562	0.3125	0.1094	5/32	5/16	7/64
flanged	3.967	7.938	2.779	0.1562	0.3125	0.1094	5/32	5/16	7/64
standard	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8
flanged	3.967	7.938	3.175	0.1562	0.3125	0.1250	5/32	5/16	1/8
standard	4.763	7.938	2.779	0.1875	0.3125	0.1094	3/16	5/16	7/64
flanged	4.763	7.938	2.779	0.1875	0.3125	0.1094	3/16	5/16	7/64
standard	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8
flanged	4.763	7.938	3.175	0.1875	0.3125	0.1250	3/16	5/16	1/8
standard	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8
flanged	4.763	9.525	3.175	0.1875	0.3750	0.1250	3/16	3/8	1/8

Designation/Type						* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Weight (g) approx.
open		2Z		2RS/2TS		C, dyn. N	C, stat. N	Grease	Oil	
Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless					
R 1-4	SR 1-4	-	-	-	-	284	96	67.0	80.0	< 1 g
FR 1-4	SFR 1-4	-	-	-	-	284	96	67.0	80.0	< 1 g
-	-	R 1-4-2Z	SR 1-4-2Z	-	-	284	96	67.0	80.0	< 1 g
-	-	FR 1-4-2Z	SFR 1-4-2Z	-	-	284	96	67.0	80.0	< 1 g
R 133	SR 133	-	-	-	-	144	53	80.0	95.0	< 1 g
FR 133	SFR 133	-	-	-	-	144	53	80.0	95.0	< 1 g
-	-	R 133-2Z	SR 133-2Z	-	-	144	53	80.0	95.0	< 1 g
-	-	FR 133-2Z	SFR 133-2Z	-	-	144	53	80.0	95.0	< 1 g
R 1-5	SR 1-5	-	-	-	-	552	176	60.0	71.0	< 1 g
FR 1-5	SFR 1-5	-	-	-	-	552	176	60.0	71.0	< 1 g
-	-	R 1-5-2Z	SR 1-5-2Z	-	-	552	176	60.0	71.0	< 1 g
-	-	FR 1-5-2Z	SFR 1-5-2Z	-	-	552	176	60.0	71.0	< 1 g
R 144	SR 144	-	-	-	-	284	96	67.0	80.0	< 1 g
FR 144	SFR 144	-	-	-	-	284	96	67.0	80.0	< 1 g
-	-	R 144-2Z	SR 144-2Z	-	-	284	96	67.0	80.0	< 1 g
-	-	FR 144-2Z	SFR 144-2Z	-	-	284	96	67.0	80.0	< 1 g
R 2-5	SR 2-5	-	-	-	-	558	180	60.0	67.0	< 1 g
FR 2-5	SFR 2-5	-	-	-	-	558	180	60.0	67.0	< 1 g
-	-	R 2-5-2Z	SR 2-5-2Z	-	-	558	180	60.0	67.0	< 1 g
-	-	FR 2-5-2Z	SFR 2-5-2Z	-	-	558	180	60.0	67.0	< 1 g
R 2-6	SR 2-6	-	-	-	-	640	227	53.0	63.0	< 2 g
FR 2-6	SFR 2-6	-	-	-	-	640	227	53.0	63.0	< 2 g
-	-	R 2-6-2Z	SR 2-6-2Z	-	-	640	227	53.0	63.0	< 2 g
-	-	FR 2-6-2Z	SFR 2-6-2Z	-	-	640	227	53.0	63.0	< 2 g
R 2	SR 2	R 2-2Z	SR 2-2Z	R 2-2RS	SR 2-2RS	631	219	56.0	67.0	< 2 g
FR 2	SFR 2	FR 2-2Z	SFR 2-2Z	FR 2-2RS	SFR 2-2RS	631	219	56.0	67.0	< 2 g
R 2A	SR 2A	R 2A-2Z	SR 2A-2Z	R 2A-2RS	SR 2A -2RS	640	227	53.0	63.0	< 3 g
FR 2A	SFR 2A	FR 2A-2Z	SFR 2A-2Z	FR 2A-2RS	SFR 2A -2RS	640	227	53.0	63.0	< 3 g
R 155	SR 155	-	-	-	-	359	150	53.0	63.0	< 1 g
FR 155	SFR 155	-	-	-	-	359	150	53.0	63.0	< 1 g
-	-	R 155-2Z	SR 155-2Z	-	-	359	150	53.0	63.0	< 1 g
-	-	FR 155-2Z	SFR 155-2Z	-	-	359	150	53.0	63.0	< 1 g
R 156	SR 156	-	-	-	-	359	150	53.0	63.0	< 1 g
FR 156	SFR 156	-	-	-	-	359	150	53.0	63.0	< 1 g
-	-	R 156-2Z	SR 156-2Z	R 156-2TS	SR 156-2TS	359	150	53.0	63.0	< 1 g
-	-	FR 156-2Z	SFR 156-2Z	FR 156-2TS	SFR 156-2TS	359	150	53.0	63.0	< 1 g
R 166	SR 166	R 166-2Z	SR 166-2Z	R 166-2TS	SR 166-2TS	709	272	50.0	60.0	< 1 g
FR 166	SFR 166	FR 166-2Z	SFR 166-2Z	FR 166-2TS	SFR 166-2TS	709	272	50.0	60.0	< 1 g

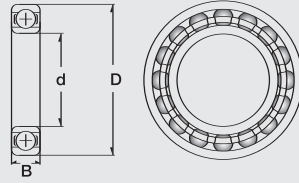


	Dimension (mm)			Dimension (inch)			Dimension (inch)		
	d	D	B	d	D	B	d	D	B
standard or flanged									
standard	4.763	12.700	3.967	0.1875	0.5000	0.1562	3/16	1/2	5/32
flanged	4.763	12.700	3.967	0.1875	0.5000	0.1562	3/16	1/2	5/32
standard	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	-
flanged	4.763	12.700	4.978	0.1875	0.5000	0.1960	3/16	1/2	-
standard	4.763	15.875	4.978	0.1875	0.6250	0.1960	3/16	5/8	-
flanged	4.763	15.875	4.978	0.1875	0.6250	0.1960	3/16	5/8	-
standard	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8
flanged	6.350	9.525	3.175	0.2500	0.3750	0.1250	1/4	3/8	1/8
standard	6.350	12.700	3.175	0.2500	0.5000	0.1250	1/4	1/2	1/8
flanged	6.350	12.700	3.175	0.2500	0.5000	0.1250	1/4	1/2	1/8
standard	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16
flanged	6.350	12.700	4.763	0.2500	0.5000	0.1875	1/4	1/2	3/16
standard	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	-
flanged	6.350	15.875	4.978	0.2500	0.6250	0.1960	1/4	5/8	-
standard	6.350	15.875	8.733	0.2500	0.6250	0.3438	1/4	5/8	11/32
standard	6.350	19.050	5.558	0.2500	0.7500	0.2188	1/4	3/4	7/32
standard	6.350	19.050	7.142	0.2500	0.7500	0.2812	1/4	3/4	9/32
standard	7.938	12.700	3.967	0.3125	0.5000	0.1562	5/16	1/2	5/32
flanged	7.938	12.700	3.967	0.3125	0.5000	0.1562	5/16	1/2	5/32
standard	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32
flanged	9.525	22.225	5.558	0.3750	0.8750	0.2188	3/8	7/8	7/32
standard	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32
flanged	9.525	22.225	7.142	0.3750	0.8750	0.2812	3/8	7/8	9/32
standard	9.525	22.225	9.525	0.3750	0.8750	0.3750	3/8	7/8	3/8



	Dimension (mm)			Dimension (inch)			Dimension (inch)		
	d	D	B	d	D	B	d	D	B
standard or flanged									
standard	12.700	19.050	3.967	0.5000	0.7500	0.1562	1/2	3/4	5/32
standard	12.700	28.575	6.350	0.5000	1.1250	0.2500	1/2	1 1/8	1/4
standard	12.700	28.575	7.938	0.5000	1.1250	0.3125	1/2	1 1/8	5/16
flanged	12.700	28.575	7.938	0.5000	1.1250	0.3125	1/2	1 1/8	5/16
standard	12.700	33.338	9.525	0.5000	1.3125	0.3750	1/2	1 5/16	3/8
standard	15.875	22.225	3.967	0.6250	0.8750	0.1562	5/8	7/8	5/32
standard	15.875	34.925	7.142	0.6250	1.3750	0.2812	5/8	1 3/8	9/32
standard	15.875	34.925	8.733	0.6250	1.3750	0.3438	5/8	1 3/8	11/32
standard	15.875	39.688	11.113	0.6250	1.5625	0.4375	5/8	1 9/16	7/16
standard	19.050	25.400	3.967	0.7500	1.0000	0.1562	3/4	1	5/32
standard	19.050	41.275	7.938	0.7500	1.6250	0.3125	3/4	1 5/8	5/16
standard	19.050	41.275	11.113	0.7500	1.6250	0.4375	3/4	1 5/8	7/16
standard	19.050	47.625	14.288	0.7500	1.8750	0.5625	3/4	1 7/8	9/16
standard	22.225	47.625	9.525	0.8750	1.8750	0.3750	7/8	1 7/8	3/8
standard	22.225	47.625	12.700	0.8750	1.8750	0.5000	7/8	1 7/8	1/2
standard	22.225	50.800	14.288	0.8750	2.0000	0.5625	7/8	2	9/16
standard	25.400	50.800	9.525	1.0000	2.0000	0.3750	1	2	3/8
standard	25.400	50.800	12.700	1.0000	2.0000	0.5000	1	2	1/2
standard	25.400	57.150	15.875	1.0000	2.2500	0.6250	1	2 1/4	5/8
standard	28.575	53.975	9.500	1.1250	2.1250	0.3740	1 1/8	2 1/8	3/8
standard	28.575	53.975	12.700	1.1250	2.1250	0.5000	1 1/8	2 1/8	1/2
standard	28.575	63.500	15.875	1.1250	2.5000	0.6250	1 1/8	2 1/5	5/8
standard	31.750	57.150	9.525	1.2500	2.2500	0.3750	1 1/4	2 1/4	3/8
standard	31.750	57.150	12.700	1.2500	2.2500	0.5000	1 1/4	2 1/4	1/2
standard	31.750	69.850	17.463	1.2500	2.7500	0.6875	1 1/4	2 3/4	11/16
standard	34.925	63.500	11.113	1.3750	2.5000	0.4375	1 3/8	2 1/2	7/16
standard	34.925	63.500	14.288	1.3750	2.5000	0.5625	1 3/8	2 1/2	9/16
standard	38.100	82.550	19.050	1.5000	3.2500	0.7500	1 1/2	3 1/4	3/4

Designation/Type						* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Weight (g) approx.
open		2Z		2RS/2TS		C, dyn. N	C, stat. N	Grease	Oil	
Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless					
-	-	R 1212-2Z	SR 1212-2Z	-	-	9400	5500	24.0	-	5 g
R 8	SR 8	-	-	-	-	5108	2413	27.0	32.0	25 g
-	-	R 8-2Z	SR 8-2Z	R 8-2RS	SR 8-2RS	5108	2413	27.0	32.0	25 g
-	-	FR 8-2Z	SFR 8-2Z	-	-	5108	2413	27.0	32.0	25 g
RLS 4	SRLS 4	RLS 4-2Z	-	RLS 4-2RS	SRLS 4-2RS	6950	3220	21.0	28.5	37 g
-	-	RI 1458-2Z	SRI 1458-2Z	-	-	9900	6300	20.0	-	7 g
R 10	-	-	-	-	-	5988	3287	21.0	25.0	38 g
-	-	R 10-2Z	SR 10-2Z	R 10-2RS	SR 10-2RS	5988	3287	21.0	25.0	40 g
RLS 5	SRLS 5	RLS 5-2Z	-	RLS 5-2RS	SRLS 5-2RS	10900	5250	18.0	-	67 g
-	-	R 1634-2Z	SR 1634-2Z	-	-	10300	7000	17.0	21.0	9 g
R 12	-	-	-	-	-	9378	5057	17.0	21.0	65 g
-	-	R 12-2Z	SR 12-2Z	R 12-2RS	SR 12-2RS	9378	5057	17.0	21.0	70 g
RLS 6	SRLS 6	RLS 6-2Z	-	RLS 6-2RS	SRLS 6-2RS	14200	6700	15.5	-	109 g
R 14	-	-	-	-	-	12000	6400	15.0	-	78 g
-	-	R 14-2Z	SR 14-2Z	R 14-2RS	SR 14-2RS	12000	6400	15.0	-	102 g
RLS 7	-	RLS 7-2Z	-	RLS 7-2RS	-	14400	7000	14.3	-	116 g
R 16	-	-	-	-	-	11800	7200	13.6	-	85 g
-	-	R 16-2Z	SR 16-2Z	R 16-2RS	SR 16-2RS	11800	7200	13.6	-	112 g
RLS 8	SRLS 8	RLS 8-2Z	-	RLS 8-2RS	SRLS 8-2RS	-	-	-	-	174 g
R 18	-	-	-	-	-	11700	7300	13.0	-	88 g
-	-	R 18-2Z	-	R 18-2RS	-	11700	7300	13.0	-	118 g
RLS 9	-	RLS 9-2Z	-	RLS 9-2RS	-	22000	11300	11.7	-	219 g
R 20	-	-	-	-	-	12800	8700	12.0	-	96 g
-	-	R 20-2Z	-	R 20-2RS	-	12800	8700	12.0	-	128 g
RLS 10	SRLS 10	RLS 10-2Z	-	RLS 10-2RS	SRLS 10-2RS	27700	15000	10.6	-	310 g
R 22	-	-	-	-	-	14400	9360	11.1	-	134 g
-	-	R 22-2Z	-	R 22-2RS	-	14400	9360	11.1	-	162 g
RLS 12	SRLS 12	-	-	RLS 12-2RS	SRLS 12-2RS	30200	17500	9.8	-	512 g

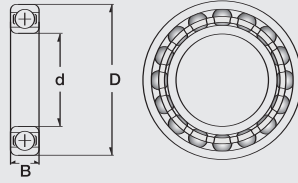


standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	10.0	15.0	3.0	61700	S61700	-	-	-	-
flanged	10.0	15.0	3.0	F 61700	SF 61700	-	-	-	-
standard	10.0	15.0	4.0	-	-	61700-2Z	S61700-2Z	61700-2RS	S61700-2RS
flanged	10.0	15.0	4.0	-	-	F 61700-2Z	SF 61700-2Z	F 61700-2RS	SF 61700-2RS
standard	10.0	19.0	5.0	61800	S61800	61800-2Z	S61800-2Z	61800-2RS	S61800-2RS
flanged	10.0	19.0	5.0	F 61800	SF 61800	F 61800-2Z	SF 61800-2Z	F 61800-2RS	SF 61800-2RS
standard	10.0	19.0	6.0	62800	-	62800-2Z	-	62800-2RS	-
standard	10.0	19.0	7.0	63800	S63800	63800-2Z	S63800-2Z	63800-2RS	-
flanged	10.0	19.0	7.0	F 63800	SF 63800	F 63800-2Z	SF 63800-2Z	-	-
standard	10.0	22.0	6.0	61900	S61900	61900-2Z	S61900-2Z	61900-2RS	S61900-2RS
flanged	10.0	22.0	6.0	F 61900	SF 61900	F 61900-2Z	SF 61900-2Z	F 61900-2RS	SF 61900-2RS
standard	11.0	22.0	6.0	-	-	619/11-2Z	-	-	-
standard	12.0	18.0	4.0	61701	S61701	61701-2Z	S61701-2Z	61701-2RS	S61701-2RS
flanged	12.0	18.0	4.0	F 61701	SF 61701	F 61701-2Z	SF 61701-2Z	F 61701-2RS	SF 61701-2RS
standard	12.0	21.0	5.0	61801	S61801	61801-2Z	S61801-2Z	61801-2RS	S61801-2RS
flanged	12.0	21.0	5.0	F 61801	SF 61801	F 61801-2Z	SF 61801-2Z	F 61801-2RS	SF 61801-2RS
standard	12.0	21.0	6.0	62801	-	62801-2Z	-	62801-2RS	-
standard	12.0	21.0	7.0	63801	-	63801-2Z	-	63801-2RS	-
standard	12.0	24.0	6.0	61901	S61901	61901-2Z	S61901-2Z	61901-2RS	S61901-2RS
flanged	12.0	24.0	6.0	F 61901	SF 61901	F 61901-2Z	SF 61901-2Z	F 61901-2RS	SF 61901-2RS
standard	12.0	24.0	6.0	61901.T9H	-	-	-	-	-
standard	13.0	24.0	6.0	619/13	-	-	-	-	-
standard	13.0	24.0	6.0	619/13.TNH	-	-	-	-	-
standard	15.0	21.0	4.0	61702	S61702	61702-2Z	S61702-2Z	61702-2RS	S61702-2RS
flanged	15.0	21.0	4.0	F 61702	SF 61702	F 61702-2Z	SF 61702-2Z	F 61702-2RS	SF 61702-2RS
standard	15.0	24.0	5.0	61802	S61802	61802-2Z	S61802-2Z	61802-2RS	S61802-2RS
flanged	15.0	24.0	5.0	F61802	SF 61802	F 61802-2Z	SF 61802-2Z	F 61802-2RS	SF 61802-2RS
standard	15.0	24.0	7.0	63802	-	63802-2Z	-	63802-2RS	-
standard	15.0	28.0	7.0	61902	S61902	61902-2Z	S61902-2Z	61902-2RS	S61902-2RS
flanged	15.0	28.0	7.0	F 61902	SF 61902	F 61902-2Z	SF 61902-2Z	F 61902-2RS	SF 61902-2RS

Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3

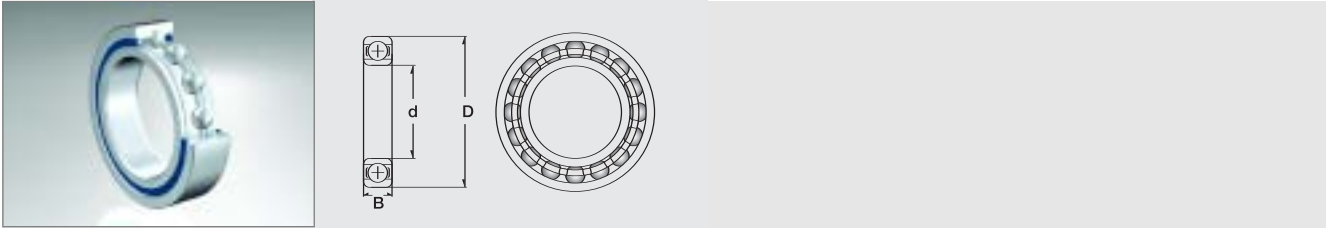
Weitere Abmessungen auf Anfrage / Non-standard sizes on request

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & ZZ)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
855	435	15.0	17.0	W	< 2 g
855	435	15.0	17.0	W	< 2 g
855	435	15.0	17.0	W	< 2 g
855	435	15.0	17.0	W	< 2 g
1716	840	37.0	43.0	J	< 6 g
1716	840	37.0	43.0	J	< 6 g
-	-	-	-	J	< 7 g
1716	840	37.0	43.0	J	< 8 g
1716	840	37.0	43.0	J	< 8 g
2695	1273	34.0	41.0	J	10 g
2695	1273	34.0	41.0	J	11 g
-	-	-	-	J	14 g
926	530	13.0	15.0	W	< 4 g
926	530	13.0	15.0	W	< 4 g
1915	1041	33.0	39.0	J	< 7 g
1915	1041	33.0	39.0	J	< 9 g
-	-	-	-	J	< 9 g
1915	1041	33.0	39.0	J	10 g
2886	1466	31.0	36.0	J	10 g
2886	1466	31.0	36.0	J	12 g
2886	1466	31.0	36.0	J	10 g
2886	1466	31.0	36.0	J	10 g
2886	1466	31.0	36.0	J	10 g
937	582	11.0	13.0	W	< 4 g
937	582	11.0	13.0	W	< 4 g
2073	1253	28.0	33.0	J	< 9 g
2073	1253	28.0	33.0	J	10 g
2073	1253	28.0	33.0	J	11 g
4321	2259	26.0	30.0	J	15 g
4321	2259	26.0	30.0	J	18 g



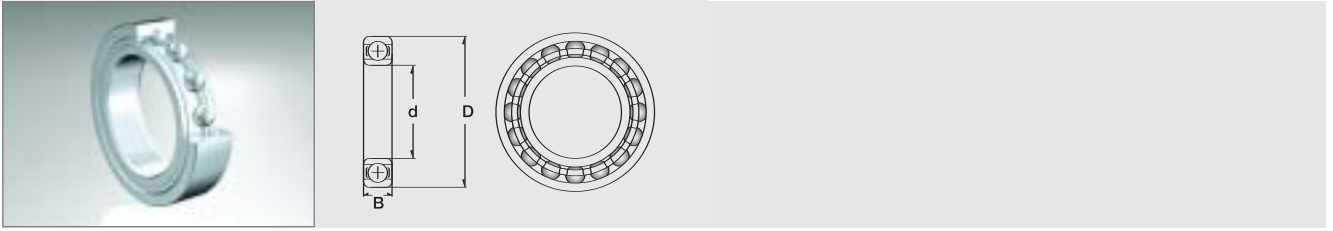
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	17.0	23.0	4.0	61703	S61703	61703-2Z	S61703-2Z	61703-2RS	S61703-2RS
flanged	17.0	23.0	4.0	F 61703	SF 61703	F 61703-2Z	SF 61703-2Z	F 61703-2RS	SF 61703-2RS
standard	17.0	26.0	5.0	61803	S61803	61803-2Z	S61803-2Z	61803-2RS	S61803-2RS
flanged	17.0	26.0	5.0	F 61803	SF 61803	F 61803-2Z	SF 61803-2Z	F 61803-2RS	SF 61803-2RS
standard	17.0	26.0	7.0	-	-	63803-2Z	-	63803-2RS	-
standard	17.0	30.0	7.0	61903	S61903	61903-2Z	S61903-2Z	61903-2RS	S61903-2RS
flanged	17.0	30.0	7.0	F 61903	SF 61903	F 61903-2Z	SF 61903-2Z	F 61903-2RS	SF 61903-2RS
standard	17.0	32.0	8.0	Y 17-2Z	-	-	-	-	-
standard	17.0	32.0	8.0	Y 17.C3	-	-	-	-	-
standard	20.0	27.0	4.0	61704	S61704	61704-2Z	S61704-2RS	61704-2Z	S61704-2RS
flanged	20.0	27.0	4.0	F 61704	SF 61704	F 61704-2Z	SF 61704-2RS	F 61704-2Z	SF 61704-2RS
standard	20.0	32.0	7.0	61804	S61804	61804-2Z	S61804-2Z	61804-2RS	S61804-2RS
flanged	20.0	32.0	7.0	F 61804	SF 61804	F 61804-2Z	SF 61804-2Z	F 61804-2RS	SF 61804-2RS
standard	20.0	37.0	9.0	61904	S61904	61904-2Z	S61904-2Z	61904-2RS	S61904-2RS
flanged	20.0	37.0	9.0	F 61904	SF 61904	F 61904-2Z	SF 61904-2Z	F 61904-2RS	SF 61904-2RS
standard	25.0	32.0	4.0	61705	S61705	61705-2Z	S61705-2Z	61705-2RS	S61705-2RS
flanged	25.0	32.0	4.0	F 61705	SF 61705	F 61705-2Z	SF 61705-2Z	F 61705-2RS	SF 61705-2RS
standard	25.0	37.0	7.0	61805	S61805	61805-2Z	S61805-2Z	61805-2RS	S61805-2RS
flanged	25.0	37.0	7.0	F 61805	SF 61805	F 61805-2Z	SF 61805-2Z	F 61805-2RS	SF 61805-2RS
standard	25.0	42.0	9.0	61905	S61905	61905-2Z	S61905-2Z	61905-2RS	S61905-2RS
flanged	25.0	42.0	9.0	F 61905	SF 61905	F 61905-2Z	SF 61905-2Z	F 61905-2RS	SF 61905-2RS
standard	30.0	37.0	4.0	61706	S61706	61706-2Z	S61706-2Z	61706-2RS	S61706-2RS
flanged	30.0	37.0	4.0	F 61706	SF 61706	F 61706-2Z	SF 61706-2Z	F 61706-2RS	SF 61706-2RS
standard	30.0	42.0	7.0	61806	S61806	61806-2Z	S61806-2Z	61806-2RS	S61806-2RS
flanged	30.0	42.0	7.0	F 61806	SF 61806	F 61806-2Z	SF 61806-2Z	F 61806-2RS	SF 61806-2RS
standard	30.0	47.0	9.0	61906	S61906	61906-2Z	S61906-2Z	61906-2RS	S61906-2RS
flanged	30.0	47.0	9.0	F 61906	SF 61906	F 61906-2Z	SF 61906-2Z	F 61906-2RS	SF 61906-2RS
standard	35.0	44.0	5.0	61707	-	61707-2Z	-	61707-2RS	-
standard	35.0	47.0	7.0	61807	S61807	61807-2Z	-	61807-2RS	S61807-2RS
standard	35.0	55.0	10.0	61907	S61907	61907-2Z	-	61907-2RS	S61907-2RS

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
1000	658	9.5	11.0	W	< 5 g
1000	658	9.5	11.0	W	< 5 g
2233	1456	26.0	30.0	J	< 9 g
2233	1456	26.0	30.0	J	10 g
2233	1456	26.0	30.0	J	11 g
4588	2565	23.0	38.0	J	10 g
4588	2565	23.0	38.0	J	12 g
-	-	-	-	J	14 g
-	-	-	-	J	14 g
1402	729	8.5	10.0	W	< 6 g
1402	729	8.5	10.0	W	< 6 g
4015	2462	21.0	25.0	J	18 g
4015	2462	21.0	25.0	J	20 g
6381	3682	19.0	23.0	J	40 g
6381	3682	19.0	23.0	J	43 g
1091	838	7.0	8.0	W	< 8 g
1091	838	7.0	8.0	W	< 8 g
4303	2932	18.0	21.0	J	24 g
4303	2932	18.0	21.0	J	27 g
7001	4540	16.0	19.0	J	47 g
7001	4540	16.0	19.0	J	47 g
1143	947	5.5	7.0	W	< 9 g
1143	947	5.5	7.0	W	< 9 g
4538	3402	15.0	18.0	J	27 g
4538	3402	15.0	18.0	J	29 g
7242	5003	14.0	17.0	J	53 g
7242	5003	14.0	17.0	J	57 g
1866	1635	4.9	6.0	W	15 g
4729	3821	13.0	16.0	J	32 g
10900	7818	12.0	14.0	W	88 g



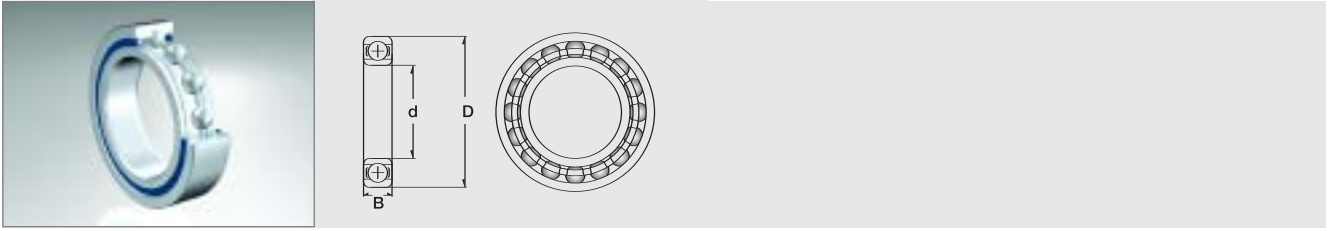
standard or flanged	Dimension (mm)			Designation/Type					
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	40.0	50.0	6.0	61708	-	61708-2Z	-	61708-2RS	-
standard	40.0	52.0	7.0	61808	S61808	61808-2Z	-	61808-2RS	S61808-2RS
standard	40.0	62.0	12.0	61908	S61908	61908-2Z	-	61908-2RS	S61908-2RS
standard	45.0	55.0	6.0	61709	-	61709-2Z	-	61709-2RS	-
standard	45.0	58.0	7.0	61809	S61809	61809-2Z	-	61809-2RS	S61809-2RS
standard	45.0	68.0	12.0	61909	S61909	61909-2Z	-	61909-2RS	S61909-2RS
standard	50.0	65.0	7.0	61810	S61810	61810-2Z	-	61810-2RS	S61810-2RS
standard	50.0	72.0	12.0	61910	S61910	61910-2Z	-	61910-2RS	S61910-2RS
standard	55.0	72.0	9.0	61811	S61811	61811-2Z	-	61811-2RS	S61811-2RS
standard	55.0	80.0	13.0	61911	S61911	61911-2Z	-	61911-2RS	S61911-2RS
standard	60.0	78.0	10.0	61812	S61812	61812-2Z	-	61812-2RS	S61812-2RS
standard	60.0	85.0	13.0	61912	S61912	61912-2Z	-	61912-2RS	S61912-2RS
standard	65.0	85.0	10.0	61813	S61813	61813-2Z	-	61813-2RS	S61813-2RS
standard	65.0	90.0	13.0	61913	S61913	61913-2Z	-	61913-2RS	S61913-2RS
standard	70.0	90.0	10.0	61814	S61814	61814-2Z	-	61814-2RS	S61814-2RS
standard	70.0	100.0	16.0	61914	S61914	61914-2Z	-	61914-2RS	S61914-2RS
standard	75.0	95.0	10.0	61815	S61815	61815-2Z	-	61815-2RS	S61815-2RS
standard	75.0	105.0	16.0	61915	S61915	61915-2Z	-	61915-2RS	S61915-2RS
standard	80.0	100.0	10.0	61816	S61816	61816-2Z	-	61816-2RS	S61816-2RS
standard	80.0	110.0	16.0	61916	S61916	61916-2Z	-	61916-2RS	S61916-2RS
standard	85.0	110.0	13.0	61817	-	61817-2Z	-	61817-2RS	-
standard	85.0	120.0	18.0	61917	-	61917-2Z	-	61917-2RS	-
standard	90.0	115.0	13.0	61818	-	61818-2Z	-	61818-2RS	-
standard	90.0	125.0	18.0	61918	-	61918-2Z	-	61918-2RS	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
2516	2233	4.3	5.0	J	23 g
4923	4178	12.0	14.0	J	35 g
13678	9968	11.0	13.0	J	132 g
2580	2397	3.9	4.6	W	25 g
6187	5381	11.0	13.0	J	42 g
14100	10830	9.7	11.0	J	148 g
6610	6090	9.6	11.0	J	65 g
14540	11710	9.0	11.0	J	145 g
8800	8100	8.7	10.0	J	84 g
16600	14100	8.1	9.6	J	185 g
11500	10600	8.0	9.4	J	105 g
20200	17300	7.5	8.9	J	192 g
11900	11500	7.3	8.6	J	126 g
17400	16100	7.1	8.4	J	212 g
12100	11900	6.8	8.1	J	134 g
23700	21200	6.4	7.6	J	344 g
12500	12900	12.5	12.9	J	144 g
24400	22600	6.1	7.2	J	365 g
12700	13300	12.7	13.3	J	150 g
25000	24000	5.7	6.8	J	384 g
18700	19000	5.6	6.6	J	266 g
31900	29600	5.3	6.3	J	540 g
19000	19700	5.3	6.3	J	280 g
32800	31600	5.1	6.0	J	570 g



standard or flanged	Dimension (mm)			open		Designation/Type		2RS/2TS	
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	100.0	125.0	13.0	61820	-	61820-2Z	-	61820-2RS	-
standard	100.0	140.0	20.0	61920	-	61920-2Z	-	61920-2RS	-
standard	105.0	130.0	13.0	61821	-	61821-2Z	-	61821-2RS	-
standard	105.0	145.0	20.0	61921	-	61921-2Z	-	61921-2RS	-
standard	110.0	140.0	16.0	61822	-	61822-2Z	-	61822-2RS	-
standard	110.0	150.0	20.0	61922	-	61922-2Z	-	61922-2RS	-
standard	120.0	150.0	16.0	61824	-	61824-2Z	-	61824-2RS	-
standard	120.0	165.0	22.0	61924	-	61924-2Z	-	61924-2RS	-
standard	130.0	165.0	18.0	61826	-	61826-2Z	-	61826-2RS	-
standard	130.0	180.0	24.0	61926	-	61926-2Z	-	61926-2RS	-
standard	140.0	175.0	18.0	61828	-	61828-2Z	-	61828-2RS	-
standard	140.0	190.0	24.0	61928	-	61928-2Z	-	61928-2RS	-
standard	150.0	190.0	20.0	61830	-	-	-	on request	-
standard	150.0	210.0	28.0	61930	-	-	-	auf Anfrage	-
standard	160.0	200.0	20.0	61832	-	-	-	on request	-
standard	160.0	220.0	25.0	61932	-	-	-	auf Anfrage	-
standard	170.0	215.0	22.0	61834	-	-	-	on request	-
standard	170.0	230.0	28.0	61934	-	-	-	auf Anfrage	-
standard	180.0	225.0	22.0	61836	-	-	-	on request	-
standard	180.0	250.0	33.0	61936	-	-	-	auf Anfrage	-
standard	190.0	240.0	24.0	61838	-	-	-	on request	-
standard	190.0	260.0	33.0	61938	-	-	-	auf Anfrage	-
standard	200.0	250.0	24.0	61840	-	-	-	on request	-
standard	200.0	280.0	38.0	61940	-	-	-	auf Anfrage	-

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & ZZ)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
20100	22000	4.8	5.1	J	310 g
42300	41500	4.5	5.3	J	830 g
20800	23600	4.6	5.3	J	330 g
44200	44000	4.3	5.0	J	870 g
28000	30500	4.3	5.0	J	500 g
43600	45000	4.0	4.8	J	900 g
29000	33000	4.0	4.6	J	550 g
55300	57000	3.6	4.3	J	1200 g
38000	43000	3.6	4.4	J	780 g
65000	67000	3.4	4.0	J	1600 g
39000	46000	3.4	4.1	J	860 g
66300	72000	3.2	3.8	J	1700 g
49000	57000	3.0	4.6	J	1200 g
66500	75000	2.8	3.2	J	3000 g
49500	59000	2.8	3.4	J, M, MA, MB	1250 g
65500	75500	2.6	3.0	J, M, MA, MB	3200 g
61000	73000	2.6	3.2	J, M, MA, MB	1630 g
67500	80000	2.4	2.9	J, M, MA, MB	3400 g
62000	76000	2.4	3.0	J, M, MA, MB	1720 g
86000	99500	2.2	2.6	J, M, MA, MB	4500 g
75000	92000	2.2	2.8	J, M, MA, MB	2200 g
88500	105000	2.0	2.6	J, M, MA, MB	4800 g
76000	95000	2.1	2.6	J, M, MA, MB	2300 g
112000	132000	2.0	2.4	J, M, MA, MB	6600 g

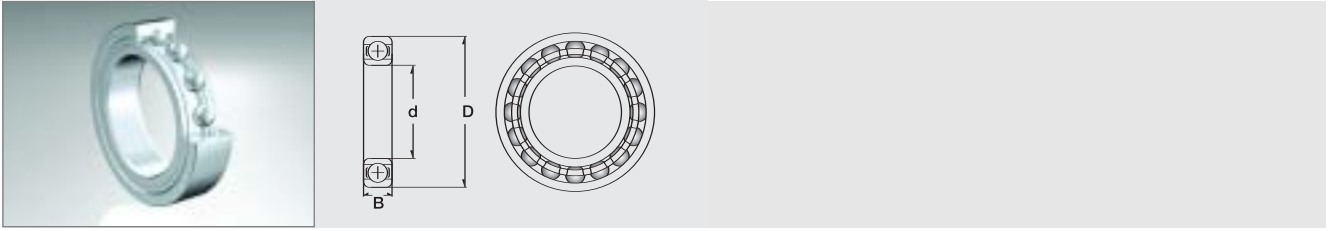


standard or flanged	Dimension (mm)			open		Designation/Type		2RS/2TS	
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard	220.0	270.0	24.0	61844	-	-	-	on request	-
standard	220.0	300.0	38.0	61944	-	-	-	auf Anfrage	-
standard	240.0	300.0	28.0	61848	-	-	-	on request	-
standard	240.0	320.0	38.0	61948	-	-	-	auf Anfrage	-
standard	260.0	320.0	28.0	61852	-	-	-	61852-2RS	-
standard	260.0	360.0	46.0	61952	-	-	-	-	-
standard	280.0	350.0	33.0	61856	-	-	-	-	-
standard	280.0	380.0	46.0	61956	-	-	-	-	-
standard	300.0	380.0	38.0	61860	-	-	-	-	-
standard	300.0	420.0	56.0	61960	-	-	-	-	-
standard	320.0	400.0	38.0	61864	-	-	-	-	-
standard	320.0	440.0	56.0	61964	-	-	-	-	-
standard	340.0	420.0	38.0	61868	-	-	-	-	-
standard	340.0	460.0	56.0	61968	-	-	-	-	-
standard	360.0	440.0	38.0	61872	-	-	-	-	-
standard	380.0	480.0	46.0	61876	-	-	-	-	-
standard	360.0	480.0	56.0	61972	-	-	-	-	-
standard	400.0	500.0	46.0	61880	-	-	-	-	-
standard	420.0	520.0	46.0	61884	-	-	-	-	-
standard	440.0	540.0	46.0	61888	-	-	-	-	-
standard	460.0	580.0	56.0	61892	-	-	-	-	-
standard	480.0	600.0	56.0	61896	-	-	-	-	-
standard	500.0	620.0	56.0	618/500	-	-	-	-	-
standard	530.0	650.0	56.0	618/530	-	-	-	-	-

Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
78000	102000	1.9	2.4	J, M, MA, MB	2530 g
118000	132000	1.9	2.4	J, M, MA, MB	7800 g
108000	139000	1.8	2.1	J, M, MA, MB	3840 g
122000	146000	1.8	2.2	J, M, MA, MB	8450 g
79500	119000	1.6	2.0	J, M, MA, MB	4900 g
163000	200000	1.6	1.9	J, M, MA, MB	14500 g
102000	149000	1.5	1.8	J, M, MA, MB	7300 g
166000	212000	1.5	1.8	J, M, MA, MB	15000 g
144000	189000	1.4	1.6	J, M, MA, MB	10400 g
208000	280000	1.3	1.6	J, M, MA, MB	24000 g
134000	180000	1.3	1.6	J, M, MA, MB	11000 g
212000	290000	1.2	1.5	J, M, MA, MB	25500 g
137000	196000	1.2	1.5	J, M, MA, MB	11500 g
220000	310000	1.1	1.4	J, M, MA, MB	26500 g
140000	200000	1.4	-	J, M, MA, MB	12000 g
190000	280000	1.3	-	J, M, MA, MB	20000 g
224000	325000	1.4	-	J, M, MA, MB	28000 g
190000	290000	1.3	-	J, M, MA, MB	20500 g
193000	300000	1.2	-	J, M, MA, MB	21500 g
228000	355000	2.6	-	J, M, MA, MB	23800 g
290000	480000	2.4	-	J, M, MA, MB	35800 g
290000	500000	2.2	-	J, M, MA, MB	37300 g
300000	510000	2	-	J, M, MA, MB	38700 g
305000	550000	2	-	J, M, MA, MB	41300 g

Dünnringlager / Thin Section Series



	Dimension (mm)					Designation/Type			
	d	D	B	open		2Z		2RS/2TS	
				Chrome Steel	Stainless	Chrome Steel	Stainless	Chrome Steel	Stainless
standard or flanged									
standard	560.0	680.0	56.0	618/560	-	-	-	-	-
standard	600.0	730.0	60.0	618/600	-	-	-	-	-
standard	630.0	780.0	69.0	618/630	-	-	-	-	-
standard	670.0	820.0	69.0	618/670	-	-	-	-	-
standard	710.0	870.0	74.0	618/710	-	-	-	-	-
standard	750.0	920.0	78.0	618/750	-	-	-	-	-
standard	800.0	980.0	82.0	618/800	-	-	-	-	-
standard	850.0	1030.0	82.0	618/850	-	-	-	-	-

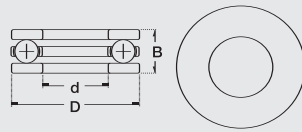
Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3

* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open & 2Z)		Standard cage type Others on request	Weight (g) approx.
C, dyn. N	C, stat. N	Grease	Oil		
310000	560000	1.9	-	J, M, MA, MB	35100 g
355000	670000	1.8	-	J, M, MA, MB	54200 g
400000	780000	1.6	-	J, M, MA, MB	75900 g
405000	815000	1.5	-	J, M, MA, MB	80400 g
465000	980000	1.4	-	J, M, MA, MB	96000 g
510000	1120000	1.3	-	J, M, MA, MB	114000 g
550000	1270000	1.3	-	J, M, MA, MB	136000 g
560000	1290000	1.2	-	J, M, MA, MB	144000 g

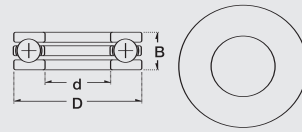
Axialrillenkugellager / Three Part Thrust Series



Type F ohne Laufnute / without groove



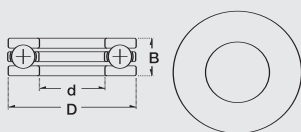
Type B mit Laufnute / with groove



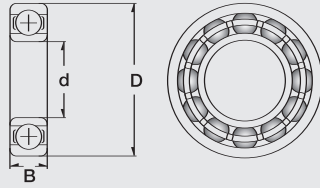
Dimension (mm)			Designation/Type		* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm		Weight (g) approx.
d	D	B	Chrome Steel	Stainless	C, dyn. N	C, stat. N	Grease	Oil	
2.0	6.0	3.0	F 2-6	-	123	82	-	-	< 1 g
4.0	9.0	4.0	F 4-9	-	167	157	-	6.5	< 1 g
4.0	10.0	4.5	F 4-10	-	274	245	-	6.0	< 2 g
5.0	11.0	4.5	F 5-11	-	284	284	-	5.0	< 3 g
6.0	12.0	4.5	F 6-12	-	274	284	-	4.0	< 3 g
7.0	15.0	5.0	F 7-15	-	559	549	-	3.8	< 5 g
8.0	16.0	5.0	F 8-16	-	598	627	-	3.5	< 5 g
9.0	17.0	5.0	F 9-17	-	578	627	-	3.5	< 6 g
10.0	18.0	5.5	F10-18	-	617	706	-	3.0	< 6 g
3.0	8.0	3.5	B 3	SB 3	602	611	-	15.0	< 2 g
4.0	10.0	4.0	B 4	SB 4	602	611	-	15.0	< 2 g
5.0	12.0	4.0	B 5	SB 5	640	810	-	13.0	< 2 g
6.0	14.0	5.0	B 6	SB 6	1275	1560	-	10.0	< 2 g
7.0	17.0	6.0	B 7	SB 7	1830	2450	-	10.0	< 2 g
8.0	19.0	7.0	B 8	SB 8	2340	3190	-	8.0	< 2 g
9.0	20.0	7.0	B 9	SB 9	2400	3190	-	8.0	< 2 g
10.0	24.0	9.0	51100	S51100	8710	8800	7.5	9.5	20 g
10.0	26.0	11.0	51200	S51200	12700	17000	6.0	8.0	29 g
12.0	26.0	9.0	51101	S51101	9035	10000	7.0	9.5	22 g
12.0	28.0	11.0	51201	S51201	13200	19000	6.0	8.0	32 g
15.0	28.0	9.0	51102	S51102	9360	11200	6.3	8.5	24 g
15.0	32.0	12.0	51202	S51202	16600	25000	5.0	6.7	43 g
17.0	30.0	9.0	51103	S51103	9750	12200	6.3	8.5	28 g
17.0	35.0	12.0	51203	S51203	17300	27500	5.0	6.7	50 g
20.0	35.0	10.0	51104	S51104	12740	16600	5.6	7.5	40 g



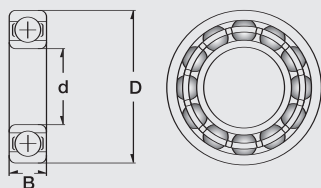
Type 51... mit Laufnute / with groove



Dimension (mm)			Designation/Type		* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm		Weight (g) approx.
d	D	B	Chrome Steel	Stainless	C, dyn. N	C, stat. N	Grease	Oil	
20.0	40.0	14.0	51204	S51204	19890	25000	4.3	5.6	82 g
25.0	42.0	11.0	51105	S51105	15860	22800	4.8	6.3	59 g
25.0	47.0	15.0	51205	S51205	25090	34000	3.8	5.0	120 g
25.0	52.0	18.0	51305	-	34500	55000	3.2	4.3	154 g
30.0	47.0	11.0	51106	S51106	16770	26500	4.5	6.0	68 g
30.0	52.0	16.0	51206	S51206	25480	37500	3.6	4.5	150 g
30.0	60.0	21.0	51306	-	38000	65500	3.0	4.0	244 g
35.0	52.0	12.0	51107	S51107	17420	30000	4.3	5.6	90 g
35.0	62.0	18.0	51207	S51207	39000	78000	3.0	4.0	220 g
35.0	68.0	24.0	51307	-	50000	88000	2.7	3.6	351 g
40.0	60.0	13.0	51108	S51108	23400	40000	3.8	5.0	120 g
40.0	68.0	19.0	51208	S51208	46500	98000	2.9	3.8	270 g
40.0	78.0	26.0	51308	-	61000	112000	2.4	3.2	536 g
45.0	65.0	14.0	51109	S51109	24180	45000	3.4	4.5	150 g
45.0	73.0	20.0	51209	S51209	47500	105000	2.5	3.5	320 g
45.0	85.0	28.0	51309	-	75000	14000	2.1	3.0	612 g
50.0	70.0	14.0	51110	S51110	25480	50000	3.3	4.5	160 g
50.0	78.0	22.0	51210	S51210	48500	111000	2.4	3.4	390 g
50.0	95.0	31.0	51310	-	86500	170000	1.9	2.8	932 g
55.0	78.0	16.0	51111	S51111	34500	93000	2.7	3.8	240 g
55.0	90.0	25.0	51211	S51211	69000	159000	1.9	2.8	610 g
55.0	105.0	35.0	51311	-	102000	208000	1.7	2.4	1300 g
60.0	85.0	17.0	51112	S51112	41500	113000	2.6	3.7	290 g
60.0	85.0	17.0	51212	S51212	73000	179000	1.9	2.7	690 g
60.0	110.0	35.0	51312	S51312	100000	208000	1.6	2.2	1360 g



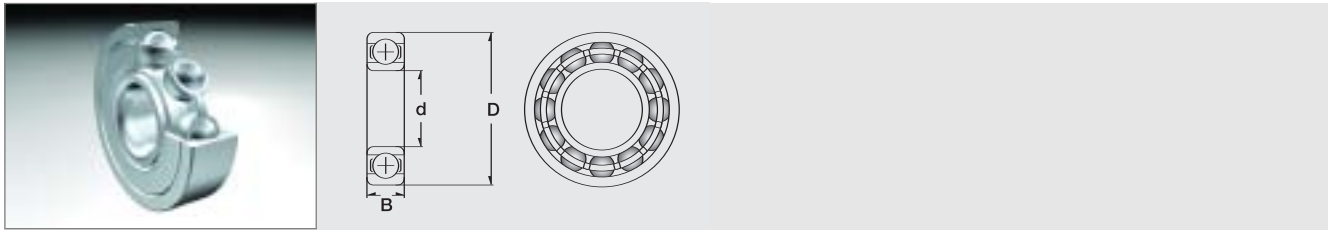
standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z)	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N	Grease	
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	10.0	26.0	8.0	6000	6000-2Z	6000-2RS	4550	1970	30.0	18 g
flanged	10.0	26.0	8.0	F 6000	F 6000-2Z	F 6000-2RS	4550	1970	30.0	20 g
standard	10.0	28.0	8.0	16100	16100-2Z	16100-2RS	4620	1960	28.0	22 g
standard	12.0	28.0	7.0	16001	16001-2Z	16001-2RS	4650	1980	27.0	22 g
standard	10.0	30.0	9.0	6200	6200-2Z	6200-2RS	5100	2390	24.0	32 g
standard	10.0	30.0	14.0	-	-	62200-2RS	5070	2360	17.0	40 g
standard	10.0	35.0	11.0	6300	6300-2Z	6300-2RS	8100	3450	22.0	52 g
standard	10.0	35.0	17.0	-	-	62300-2RS	8060	3400	15.0	60 g
standard	12.0	28.0	8.0	6001	6001-2Z	6001-2RS	5100	2370	28.0	22 g
flanged	12.0	28.0	8.0	F 6001	F 6001-2Z	F 6001-2RS	5100	2370	28.0	24 g
standard	12.0	30.0	8.0	16101	16101-2Z	16101-2RS	5070	2360	26.0	23 g
standard	12.0	32.0	10.0	6201	6201-2Z	6201-2RS	6800	3050	22.0	37 g
standard	12.0	32.0	14.0	-	-	62201-2RS	6890	3100	15.0	45 g
standard	12.0	37.0	12.0	6301	6301-2Z	6301-2RS	9700	4200	20.0	60 g
standard	12.0	37.0	17.0	-	-	62301-RS	9750	4150	14.0	70 g
standard	15.0	32.0	8.0	16002	16002-2Z	16002-2RS	5590	2850	22.0	25 g
standard	15.0	32.0	9.0	6002	6002-2Z	6002-2RS	5600	2830	24.0	31 g
standard	15.0	35.0	11.0	6202	6202-2Z	6202-2RS	7650	3750	20.0	45 g
standard	15.0	35.0	14.0	-	-	62202-2RS	7800	3750	13.0	54 g
standard	15.0	42.0	13.0	6302	6302-2Z	6302-2RS	11400	5450	17.0	83 g
standard	15.0	42.0	17.0	-	-	62302-2RS	11400	5400	12.0	110 g
standard	17.0	35.0	8.0	16003	16003-2Z	16003-2RS	6050	3250	19.0	32 g
standard	17.0	35.0	10.0	6003	6003-2Z	6003-2RS	6000	3250	22.0	41 g
standard	17.0	40.0	12.0	6203	6203-2Z	6203-2RS	9550	4800	17.0	67 g
standard	17.0	40.0	16.0	-	-	62203-2RS	9560	4750	12.0	83 g
standard	17.0	47.0	14.0	6303	6303-2Z	6303-2RS	13600	6650	15.0	113 g



standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z) Grease	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N		
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	17.0	47.0	19.0	-	-	62303-2RS	13500	6550	11.0	150 g
standard	17.0	62.0	17.0	6403	6403-2Z	6403-2RS	22900	10800	15.0	270 g
standard	20.0	42.0	8.0	16004	16004-2Z	16004-2RS	-	-	-	50 g
standard	20.0	42.0	12.0	6004	6004-2Z	6004-2RS	9400	5000	18.0	68 g
standard	20.0	47.0	14.0	6204	6204-2Z	6204-2RS	12800	6600	15.0	107 g
standard	20.0	47.0	18.0	-	-	62204-2RS	12700	6550	10.0	130 g
standard	20.0	52.0	15.0	6304	6304-2Z	6304-2RS	15900	7900	14.0	145 g
standard	20.0	52.0	21.0	-	-	62304-2RS	15900	7800	9.5	200 g
standard	20.0	72.0	19.0	6404	6404-2Z	6404-2RS	30700	15000	9.9	400 g
standard	25.0	47.0	8.0	16005	16005-2Z	16005-2RS	-	-	-	60 g
standard	25.0	47.0	12.0	6005	6005-2Z	6005-2RS	10100	5850	15.0	79 g
standard	25.0	52.0	15.0	6205	6205-2Z	6205-2RS	14000	7850	13.0	129 g
standard	25.0	52.0	18.0	-	-	62205-2RS	14000	7800	8.5	150 g
standard	25.0	62.0	17.0	6305	6305-2Z	6305-2RS	20600	11200	11.0	235 g
standard	25.0	62.0	24.0	-	-	62305-2RS	22500	11600	7.5	320 g
standard	25.0	80.0	21.0	6405	6405-2Z	6405-2RS	35000	19100	8.8	530 g
standard	30.0	55.0	9.0	16006	16006-2Z	16006-2RS	-	-	-	85 g
standard	30.0	55.0	13.0	6006	6006-2Z	6006-2RS	13200	8300	13.0	116 g
standard	30.0	62.0	16.0	6206	6206-2Z	6206-2RS	19500	11300	11.0	199 g
standard	30.0	62.0	20.0	-	-	62206-2RS	19500	11200	7.5	240 g
standard	30.0	72.0	19.0	6306	6306-2Z	6306-2RS	26700	15000	9.5	345 g
standard	30.0	72.0	27.0	-	-	62306-2RS	28100	16000	6.3	480 g
standard	30.0	90.0	23.0	6406	-	-	43500	23800	8.7	740 g
standard	35.0	62.0	9.0	16007	16007-2Z	16007-2RS	9000	6600	9.5	110 g
standard	35.0	62.0	14.0	6007	6007-2Z	6007-2RS	16000	10300	11.0	151 g

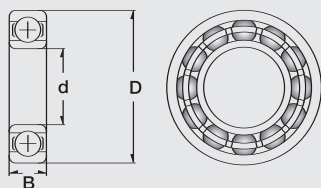
Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3

Standarddrillenugellager / Popular Metric Series



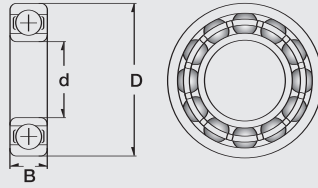
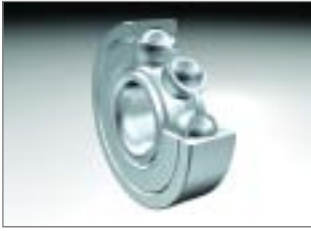
standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z)	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N	Grease	
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	35.0	72.0	17.0	6207	6207-2Z	6207-2RS	25700	15300	9.5	284 g
standard	35.0	72.0	23.0	-	-	62207-2RS	25500	15300	6.3	370 g
standard	35.0	80.0	21.0	6307	6307-2Z	6307-2RS	33500	19200	8.5	464 g
standard	35.0	80.0	31.0	-	-	62307-2RS	33200	19000	6.0	660 g
standard	35.0	100.0	25.0	6407	-	-	55200	31500	6.8	950 g
standard	40.0	68.0	9.0	16008	16008-2Z	16008-2RS	9700	7450	9.0	130 g
standard	40.0	68.0	15.0	6008	6008-2Z	6008-2RS	16800	11500	10.0	190 g
standard	40.0	80.0	18.0	6208	6208-2Z	6208-2RS	29100	17900	8.5	366 g
standard	40.0	80.0	23.0	62208	-	62208-2RS	30700	19000	5.6	440 g
standard	40.0	90.0	23.0	6308	6308-2Z	6308-2RS	40500	24000	7.5	636 g
standard	40.0	90.0	33.0	62308	-	62308-2RS	41000	24000	5.0	890 g
standard	40.0	110.0	27.0	6408	-	-	63000	36000	6.5	1250 g
standard	45.0	75.0	10.0	16009	16009-2Z	16009-2RS	11500	8950	8.5	170 g
standard	45.0	75.0	16.0	6009	6009-2Z	6009-2RS	20900	15200	9.0	241 g
standard	45.0	85.0	19.0	6209	6209-2Z	6209-2RS	31500	20400	7.5	420 g
standard	45.0	85.0	23.0	62209	-	62209-2RS	33200	21600	5.0	480 g
standard	45.0	100.0	25.0	6309	6309-2Z	6309-2RS	53000	32000	6.7	829 g
standard	45.0	100.0	36.0	62309	-	62309-2RS	52700	31500	4.5	1150 g
standard	45.0	120.0	29.0	6409	-	-	75500	44500	5.8	1550 g
standard	50.0	80.0	10.0	16010	16010-2Z	16010-2RS	12000	9650	8.0	180 g
standard	50.0	80.0	16.0	6010	6010-2Z	6010-2RS	21800	16600	8.5	261 g
standard	50.0	90.0	20.0	6210	6210-2Z	6210-2RS	35000	23200	7.1	459 g
standard	50.0	90.0	23.0	62210	-	62210-2RS	35100	23200	4.8	520 g
standard	50.0	110.0	27.0	6310	6310-2Z	6310-2RS	62000	38500	6.0	1060 g
standard	50.0	110.0	40.0	62310	-	62310-2RS	61800	38000	4.3	1550 g

Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3

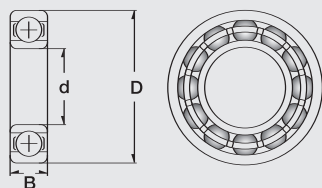


standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z) Grease	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N		
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	50.0	130.0	31.0	6410	-	-	87000	51500	5.2	1900 g
standard	55.0	90.0	11.0	16011	16011-2Z	16011-2RS	16600	14000	19.0	270 g
standard	55.0	90.0	18.0	6011	6011-2Z	6011-2RS	28500	21200	7.5	410 g
standard	55.0	100.0	21.0	6211	6211-2Z	6211-2RS	43000	29000	6.7	630 g
standard	55.0	120.0	29.0	6311	6311-2Z	6311-2RS	76500	47500	5.3	1430 g
standard	55.0	140.0	33.0	6411	-	-	99500	62000	4.9	2300 g
standard	60.0	95.0	11.0	16012	16012-2Z	16012-2RS	20000	17600	17.0	280 g
standard	60.0	95.0	18.0	6012	6012-2Z	6012-2RS	29000	23200	7.0	430 g
standard	60.0	110.0	22.0	6212	6212-2Z	6212-2RS	52000	36000	6.0	810 g
standard	60.0	130.0	31.0	6312	6312-2Z	6312-2RS	81500	52000	5.0	1790 g
standard	60.0	150.0	35.0	6412	-	-	109000	70000	4.7	2750 g
standard	65.0	100.0	11.0	16013	16013-2Z	16013-2RS	21200	19600	16.0	300 g
standard	65.0	100.0	18.0	6013	6013-2Z	6013-2RS	30500	25000	6.3	460 g
standard	65.0	120.0	23.0	6213	6213-2Z	6213-2RS	60000	41500	5.3	1030 g
standard	65.0	140.0	33.0	6313	6313-2Z	6313-2RS	93000	60000	4.5	2180 g
standard	65.0	160.0	37.0	6413	-	-	120000	77000	4.5	3300 g
standard	70.0	110.0	13.0	16014	16014-2Z	16014-2RS	28000	25000	14.0	440 g
standard	70.0	110.0	20.0	6014	6014-2Z	6014-2RS	38000	31000	14.0	640 g
standard	70.0	125.0	24.0	6214	6214-2Z	6214-2RS	62000	44000	5.0	1110 g
standard	70.0	150.0	35.0	6314	6314-2Z	6314-2RS	104000	68000	4.3	260 g
standard	70.0	170.0	42.0	6414	-	-	145000	99000	3.7	4850 g
standard	75.0	115.0	13.0	16015	16015-2Z	16015-2RS	28500	27000	13.0	460 g
standard	75.0	115.0	20.0	6015	6015-2Z	6015-2RS	39000	33500	12.0	850 g
standard	75.0	130.0	25.0	6215	6215-2Z	6215-2RS	65500	49000	48.0	1210 g
standard	75.0	160.0	37.0	6315	6315-2Z	6315-2RS	114000	76500	7.0	3180 g

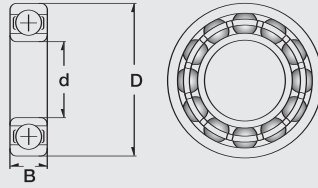
Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3



standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z)	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N	Grease	
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	75.0	190.0	45.0	6415	-	-	152000	114000	3.6	6800 g
standard	80.0	125.0	14.0	16016	16016-2Z	16016-2RS	32000	31000	13.0	610 g
standard	80.0	125.0	22.0	6016	6016-2Z	6016-2RS	47500	40000	5.0	890 g
standard	80.0	140.0	26.0	6216	6216-2Z	6216-2RS	72000	54000	4.5	1490 g
standard	80.0	170.0	39.0	6316	6316-2Z	6316-2RS	122000	86500	6.7	3750 g
standard	80.0	200.0	48.0	6416	-	-	164000	126000	3.4	8000 g
standard	85.0	130.0	14.0	16017	16017-2Z	16017-2RS	34000	33500	12.0	670 g
standard	85.0	130.0	22.0	6017	6017-2Z	6017-2RS	49000	43000	4.8	940 g
standard	85.0	150.0	28.0	6217	6217-2Z	6217-2RS	83000	64000	4.3	1910 g
standard	85.0	180.0	41.0	6317	6317-2Z	6317-2RS	132000	96500	6.3	4250 g
standard	90.0	140.0	16.0	16018	16018-2Z	16018-2RS	41500	39000	11.0	870 g
standard	90.0	140.0	24.0	6018	6018-2Z	6018-2RS	58500	50000	4.5	1230 g
standard	90.0	160.0	30.0	6218	6218-2Z	6218-2RS	96500	72000	3.8	2260 g
standard	90.0	190.0	43.0	6318	6318-2Z	6318-2RS	134000	102000	6.0	5530 g
standard	95.0	145.0	16.0	16019	16019-2Z	16019-2RS	40000	40500	11.0	920 g
standard	95.0	145.0	24.0	6019	6019-2Z	6019-2RS	60000	54000	4.2	1290 g
standard	95.0	170.0	32.0	6219	6219-2Z	6219-2RS	108000	81500	3.6	2790 g
standard	95.0	200.0	45.0	6319	6319-2Z	6319-2RS	146000	114000	4.5	7140 g
standard	100.0	150.0	16.0	16020	16020-2Z	16020-2RS	44000	44000	10.0	960 g
standard	100.0	150.0	24.0	6020	6020-2Z	6020-2RS	60000	54000	4.0	1350 g
standard	100.0	180.0	34.0	6220	6220-2Z	6220-2RS	122000	93000	3.4	3660 g
standard	100.0	215.0	47.0	6320	6320-2Z	6320-2RS	163000	134000	4.0	7780 g
standard	110.0	170.0	19.0	16022 (M)	-	-	43000	41500	4.3	1450 g
standard	110.0	170.0	28.0	6022	-	6022-2RS	62500	56000	3.6	1950 g
standard	110.0	200.0	38.0	6222	-	-	111500	99000	2.8	4350 g

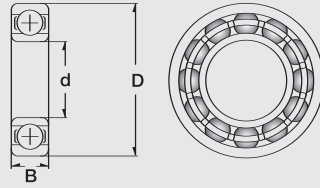
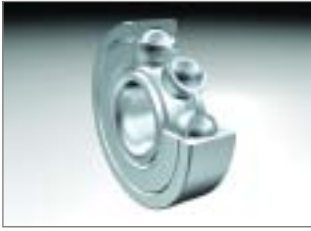


standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z) Grease	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N		
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	110.0	240.0	50.0	6322	-	-	155500	165000	2.4	9550 g
standard	120.0	180.0	19.0	16024 (M)	-	-	46500	46500	3.8	1600 g
standard	120.0	180.0	28.0	6024	-	6024-2RS	65000	60000	3.2	2050 g
standard	120.0	215.0	40.0	6224	-	-	111500	99000	2.6	5150 g
standard	120.0	260.0	55.0	6324	-	-	159500	165000	2.2	14500 g
standard	130.0	200.0	22.0	16026	-	-	60000	60000	3.6	2350 g
standard	130.0	200.0	33.0	6026	-	6026-2RS	81000	77000	3.0	3150 g
standard	130.0	230.0	40.0	6226	-	-	119500	111000	2.4	5800 g
standard	130.0	280.0	58.0	6326	-	-	175500	192000	2.0	18000 g
standard	140.0	210.0	22.0	16028 (M)	-	-	61000	63000	3.4	2500 g
standard	140.0	210.0	33.0	6028	-	6028-2RS	84500	82000	2.8	3350 g
standard	140.0	250.0	42.0	6228	-	-	126500	121000	2.2	7450 g
standard	140.0	300.0	62.0	6328 (M)	-	-	195500	223000	1.8	22000 g
standard	150.0	225.0	24.0	16030 (M)	-	-	70000	72500	3.0	3150 g
standard	150.0	225.0	35.0	6030 (M)	-	6030-2RS	96000	95500	2.4	4800 g
standard	150.0	270.0	45.0	6230 (M)	-	-	133500	136000	1.8	9400 g
standard	160.0	240.0	25.0	16032 (M)	-	-	75500	79000	2.8	3700 g
standard	160.0	240.0	38.0	6032 (M)	-	6032-2RS	109500	111000	2.2	5900 g
standard	160.0	290.0	48.0	6232 (M)	-	-	142500	145000	1.7	14500 g
standard	170.0	260.0	28.0	16034 (M)	-	-	90500	95500	2.6	5000 g
standard	170.0	260.0	28.0	16034 (M)	-	-	90500	95500	2.6	5000 g
standard	170.0	260.0	42.0	6034 (M)	-	-	128500	133000	2.0	7900 g
standard	170.0	310.0	52.0	6234 (M)	-	-	162500	179000	1.7	17500 g
standard	180.0	280.0	31.0	16036 (M)	-	-	105000	111000	2.4	6600 g
standard	180.0	280.0	31.0	16036 (M)	-	-	105000	111000	2.4	6600 g

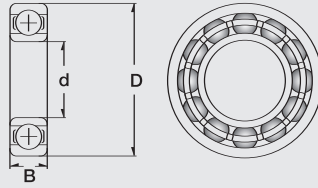


standard or flanged	Dimension (mm)			Designation/Type			* Load Rating		* Limiting Speed x1000rpm (open & 2Z)	Weight (g) approx.
	d	D	B	Open	2Z	2RS/2TS	C, dyn. N	C, stat. N	Grease	
				Chrome Steel	Chrome Steel	Chrome Steel				
standard	180.0	280.0	46.0	6036 (M)	-	-	145500	155000	2.0	10500 g
standard	180.0	320.0	52.0	6236 (M)	-	-	175500	195000	1.6	18500 g
standard	190.0	290.0	31.0	16038 (M)	-	-	113000	124000	2.4	7900 g
standard	190.0	290.0	46.0	6038 (M)	-	-	149500	165000	1.8	11000 g
standard	190.0	340.0	55.0	6238 (M)	-	-	195500	231000	1.5	23000 g
standard	200.0	310.0	34.0	16040 (M)	-	-	128000	142000	2.2	8850 g
standard	200.0	310.0	51.0	6040 (M)	-	-	165500	189000	1.7	14000 g
standard	200.0	360.0	58.0	6240 (M)	-	-	207500	249000	1.5	28000 g
standard	220.0	340.0	37.0	16044 (M)	-	-	133000	152000	2.0	11500 g
standard	220.0	340.0	56.0	6044 (M)	-	-	189500	227000	1.6	18500 g
standard	220.0	400.0	65.0	6244 (M)	-	-	227500	289000	1.3	37000 g
standard	240.0	360.0	37.0	16048 (M)	-	-	136000	159000	1.8	14500 g
standard	240.0	360.0	56.0	6048 (M)	-	-	195500	244000	1.5	19500 g
standard	260.0	400.0	44.0	16052 (M)	-	-	182000	231000	1.6	21500 g
standard	260.0	400.0	65.0	6052 (M)	-	-	223500	289000	1.3	29500 g
standard	280.0	420.0	65.0	6056 (M)	-	-	231500	314000	1.2	31000 g
standard	300.0	460.0	74.0	6060 (M)	-	-	274500	389000	1.0	44000 g
standard	320.0	480.0	74.0	6064 (M)	-	-	284500	414000	0.9	46000 g
standard	340.0	520.0	82.0	6068 (M)	-	-	339500	539000	0.8	62000 g

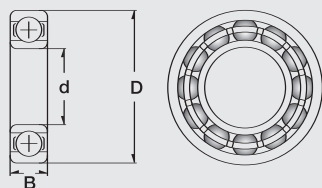
Auch erhältlich in C2, C0 und C3 / Also available in C2, C0 and C3 (M) = M Cage available



Dimension (mm)			Designation/Type					* Load Rating		Weight (g) approx.
d	D	B	Open	2Z	2RS	2TS	in C3	C, dyn. N	C, stat. N	
10.0	26.0	8.0	S6000	S6000-2Z	S6000-2RS	S6000-2TS	avail. / lieferb.	4620	1990	19 g
10.0	28.0	8.0	S16100	S16100-2Z	S16100-2RS	-	-	on request	auf Anfrage	22 g
10.0	30.0	9.0	S6200	S6200-2Z	S6200-2RS	S6200-2TS	avail. / lieferb.	5070	2360	32 g
10.0	30.0	14.0	-	-	S62200-2RS	-	avail. / lieferb.	on request	auf Anfrage	40 g
10.0	35.0	11.0	S6300	S6300-2Z	S6300-2RS	-	avail. / lieferb.	8060	3400	53 g
10.0	35.0	17.0	-	-	S62300-2RS	-	-	on request	auf Anfrage	60 g
12.0	28.0	8.0	S6001	S6001-2Z	S6001-2RS	S6001-2TS	avail. / lieferb.	5070	2360	22 g
12.0	30.0	8.0	S16001	S16001-2Z	S16001-2RS	-	avail. / lieferb.	on request	auf Anfrage	22 g
12.0	32.0	10.0	S6201	S6201-2Z	S6201-2RS	S6201-2TS	avail. / lieferb.	6870	3100	37 g
12.0	32.0	14.0	-	-	S62201-2RS	-	-	on request	auf Anfrage	45 g
12.0	37.0	12.0	S6301	S6301-2Z	S6301-2RS	-	avail. / lieferb.	9750	4150	60 g
12.0	37.0	17.0	-	-	S62301-2RS	-	-	on request	auf Anfrage	70 g
15.0	32.0	8.0	S16002	S16002-2Z	S16002-2RS	-	avail. / lieferb.	on request	auf Anfrage	25 g
15.0	32.0	9.0	S6002	S6002-2Z	S6002-2RS	S6002-2TS	avail. / lieferb.	5590	2850	30 g
15.0	35.0	11.0	S6202	S6202-2Z	S6202-2RS	S6202-2TS	avail. / lieferb.	7800	3100	45 g
15.0	35.0	14.0	-	-	S62202-2RS	-	-	on request	auf Anfrage	54 g
15.0	42.0	13.0	S6302	S6302-2Z	S6302-2RS	-	-	11400	5400	82 g
15.0	42.0	17.0	-	-	S62302-2RS	-	-	on request	auf Anfrage	110 g
17.0	35.0	8.0	S16003	S16003-2Z	S16003-2RS	-	-	on request	auf Anfrage	32 g
17.0	35.0	10.0	S6003	S6003-2Z	S6003-2RS	S6003-2TS	avail. / lieferb.	6050	3250	39 g
17.0	40.0	12.0	S6203	S6203-2Z	S6203-2RS	S6203-2TS	avail. / lieferb.	9650	4750	65 g
17.0	40.0	16.0	-	-	S62203-2RS	-	-	on request	auf Anfrage	83 g
17.0	47.0	14.0	S6303	S6303-2Z	S6303-2RS	-	-	13500	6550	120 g
17.0	47.0	19.0	-	-	S62303-2RS	-	-	on request	auf Anfrage	150 g
20.0	42.0	8.0	S16004	S16004-2Z	S16004-2RS	-	-	on request	auf Anfrage	50 g

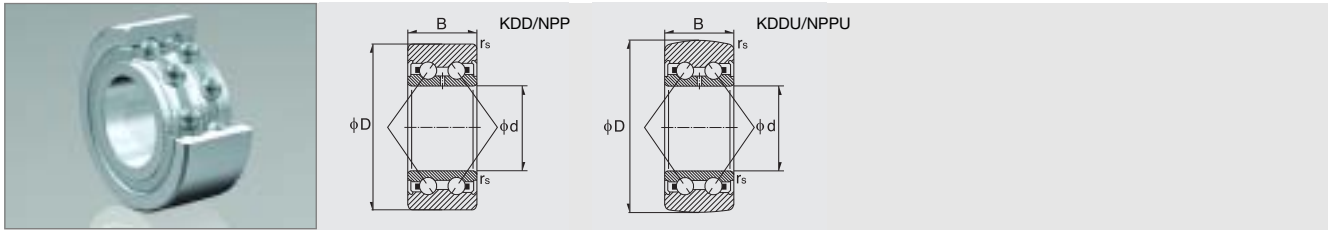


Dimension (mm)			Designation/Type					* Load Rating		Weight (g) approx.
d	D	B	Open	2Z	2RS	2TS	in C3	C, dyn. N	C, stat. N	
20.0	42.0	12.0	S6004	S6004-2Z	S6004-2RS	S6004-2TS	avail. / lieferb.	9360	5000	69 g
20.0	47.0	14.0	S6204	S6204-2Z	S6204-2RS	S6204-2TS	avail. / lieferb.	12700	6550	110 g
20.0	47.0	18.0	-	-	S62204-2RS	-	-	on request	auf Anfrage	130 g
20.0	52.0	15.0	S6304	S6304-2Z	S6304-2RS	-	avail. / lieferb.	15900	7800	140 g
20.0	52.0	21.0	-	-	S62304-2RS	-	-	on request	auf Anfrage	200 g
25.0	47.0	8.0	S16005	S16005-2Z	S16005-2RS	-	-	on request	auf Anfrage	60 g
25.0	47.0	12.0	S6005	S6005-2Z	S6005-2RS	-	avail. / lieferb.	11200	6550	80 g
25.0	52.0	15.0	S6205	S6205-2Z	S6205-2RS	-	avail. / lieferb.	14000	7800	130 g
25.0	52.0	18.0	-	-	S62205-2RS	-	-	on request	auf Anfrage	150 g
25.0	62.0	17.0	S6305	S6305-2Z	S6305-2RS	-	avail. / lieferb.	22500	11600	230 g
25.0	62.0	24.0	-	-	S62305-2RS	-	-	on request	auf Anfrage	320 g
30.0	55.0	13.0	S6006	S6006-2Z	S6006-2RS	-	-	13300	8300	120 g
30.0	62.0	16.0	S6206	S6206-2Z	S6206-2RS	-	-	19500	11200	200 g
30.0	72.0	19.0	S6306	S6306-2Z	S6306-2RS	-	-	28100	16000	350 g
35.0	62.0	14.0	S6007	-	S6007-2RS	-	-	15900	10200	160 g
35.0	72.0	17.0	S6207	-	S6207-2RS	-	-	25500	15300	290 g
40.0	68.0	15.0	S6008	-	S6008-2RS	-	-	16800	11600	190 g
40.0	80.0	18.0	S6208	-	S6208-2RS	-	-	30700	19000	370 g
40.0	90.0	23.0	S6308	-	S6308-2RS	-	-	33200	19000	460 g
45.0	75.0	16.0	S6009	-	S6009-2RS	-	-	20860	14600	250 g



Dimension (mm)			Designation/Type					* Load Rating		Weight (g) approx.
d	D	B	Open	2Z	2RS	2TS	in C3	C, dyn. N	C, stat. N	
45.0	85.0	19.0	S6209	-	S6209-2RS	-	-	33200	21600	410 g
50.0	80.0	16.0	S6010	-	S6010-2RS	-	-	21600	16000	260 g
50.0	90.0	20.0	S6210	-	S6210-2RS	-	-	35100	23200	460 g
55.0	90.0	18.0	S6011	-	S6011-2RS	-	-	28100	21100	390 g
55.0	100.0	21.0	S6211	-	S6211-2RS	-	-	43600	29000	610 g
60.0	95.0	18.0	S6012	-	S6012-2RS	-	-	29600	23200	420 g
60.0	110.0	22.0	S6212	-	S6212-2RS	-	-	47500	32500	780 g
65.0	100.0	18.0	S6013	-	S6013-2RS	-	-	30700	25000	440 g
65.0	120.0	23.0	S6213	-	S6213-2RS	-	-	55900	40500	990 g
70.0	110.0	20.0	S6014	-	S6014-2RS	-	-	29680	24200	580 g
70.0	125.0	24.0	S6214	-	S6214-2RS	-	-	46790	37590	1080 g
75.0	115.0	20.0	S6015	-	S6015-2RS	-	-	30910	26600	610 g
75.0	130.0	25.0	S6215	-	S6215-2RS	-	-	50850	41260	1180 g
80.0	125.0	22.0	S6016	-	S6016-2RS	-	-	on request	auf Anfrage	850 g
80.0	140.0	26.0	S6216	-	S6216-2RS	-	-	on request	auf Anfrage	1400 g
90.0	140.0	24.0	S6018	-	S6018-2RS	-	-	on request	auf Anfrage	1150 g
90.0	160.0	30.0	S6218	-	S6218-2RS	-	-	on request	auf Anfrage	2150 g
100.0	150.0	24.0	S6020	-	S6020-2RS	-	-	on request	auf Anfrage	1250 g
100.0	180.0	34.0	S6220	-	S6220-2RS	-	-	on request	auf Anfrage	3150 g
110.0	170.0	28.0	S6022	-	S6022-2RS	-	-	on request	auf Anfrage	1950 g
120.0	180.0	28.0	S6024	-	S6024-2RS	-	-	on request	auf Anfrage	2050 g

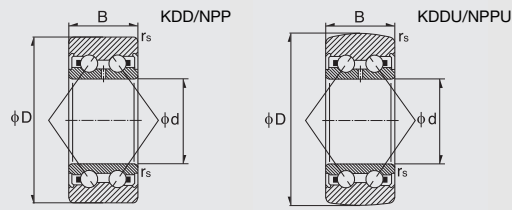
Laufrolle der LR Serie / LR Series (track roller)



Dimension (mm)			Designation/Type			
d	D	B	KDD	KDDU	NPP	NPPU
5.0	17.0	7.0	-	-	-	LR 50/5 NPPU
6.0	19.0	9.0	-	-	-	LR 50/6 NPPU
7.0	22.0	10.0	-	-	-	LR 50/7 NPPU
8.0	24.0	11.0	-	-	-	LR 50/8 NPPU
10.0	28.0	12.0	-	-	-	LR 5000 NPPU
10.0	32.0	9.0	-	-	LR 200 NPP	LR 200 NPPU
10.0	32.0	14.0	LR 5200 KDD	LR 5200 KDDU	-	LR 5200 NPPU
12.0	30.0	12.0	-	-	-	LR 5001 NPPU
12.0	35.0	10.0	-	-	LR 201 NPP	LR 201 NPPU
12.0	35.0	15.9	LR 5201 KDD	LR 5201 KDDU	-	LR 5201 NPPU
12.0	42.0	19.0	-	-	-	LR 5301 NPPU
15.0	35.0	13.0	-	-	-	LR 5002 NPPU
15.0	40.0	11.0	-	-	LR 202 NPP	LR 202 NPPU
15.0	40.0	15.9	LR 5202 KDD	LR 5202 KDDU	-	LR 5202 NPPU
15.0	47.0	19.0	-	-	-	LR 5302 NPPU
17.0	40.0	14.0	-	-	-	LR 5003 NPPU
17.0	47.0	12.0	-	-	LR 203 NPP	LR 203 NPPU
17.0	47.0	17.5	LR 5203 KDD	LR 5203 KDDU	-	LR 5203 NPPU
17.0	52.0	22.2	-	-	-	LR 5303 NPPU
20.0	47.0	16.0	-	-	-	LR 5004 NPPU
20.0	52.0	14.0	-	-	LR 204 NPP	LR 204 NPPU
20.0	52.0	20.6	LR 5204 KDD	LR 5204 KDDU	-	LR 5204 NPPU
20.0	62.0	22.2	LR 5304 KDD	LR 5304 KDDU	-	LR 5304 NPPU
25.0	52.0	16.0	-	-	-	LR 5005 NPPU
25.0	62.0	15.0	-	-	LR 205 NPP	LR 205 NPPU

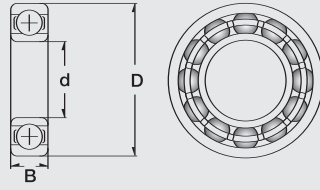
* Load Rating		Radius	* Limiting Speed x1000rpm		Weight (g) approx.
C, dyn. N	C, stat. N		NPP(U)	KDD(U)	
1650	950	0.2	12.0	-	10 g
2650	1310	0.3	11.0	-	20 g
3300	1690	0.3	10.0	-	20 g
4200	2360	0.3	10.0	-	30 g
4750	2850	0.3	9.0	-	30 g
4350	2130	0.6	13.0	-	50 g
6800	4050	0.6	8.0	11.0	70 g
4950	3100	0.3	8.0	-	30 g
5600	2700	0.6	12.0	-	50 g
8600	5100	0.6	7.0	10.0	80 g
11300	7100	1.0	5.0	-	120 g
6500	4100	0.3	7.0	-	50 g
6500	3300	0.6	11.0	-	70 g
9800	6200	0.6	7.0	10.0	110 g
14600	9200	1.0	5.0	-	150 g
7700	5200	0.3	6.0	-	70 g
8400	4400	0.6	9.0	-	110 g
12600	8200	0.6	5.5	7.0	170 g
17200	11100	0.6	4.7	-	210 g
11500	7700	0.6	5.5	-	120 g
10500	5600	1.0	8.0	-	150 g
15800	10500	1.0	5.0	7.0	230 g
21100	14500	1.1	4.5	6.5	340 g
11600	8100	0.6	4.7	-	150 g
12500	7100	1.0	7.0	-	230 g

Laufrolle der LR Serie / LR Series (track roller)



Dimension (mm)			Designation/Type			
d	D	B	KDD	KDDU	NPP	NPPU
25.0	62.0	20.6	LR 5205 KDD	LR 5205 KDDU	-	LR 5205 NPPU
25.0	72.0	25.4	LR 5305 KDD	LR 5305 KDDU	-	LR 5305 NPPU
30.0	62.0	19.0	-	-	-	LR 5006 NPPU
30.0	72.0	16.0	-	-	LR 206 NPP	LR 206 NPPU
30.0	72.0	23.8	LR 5206 KDD	LR 5206 KDDU	-	LR 5206 NPPU
30.0	80.0	30.2	LR 5306 KDD	LR 5306 KDDU	-	LR 5306 NPPU
35.0	68.0	20.0	-	-	-	LR 5007 NPPU
35.0	80.0	17.0	-	-	LR 207 NPP	LR 207 NPPU
35.0	80.0	27.0	LR 5207 KDD	LR 5207 KDDU	-	LR 5207 NPPU
35.0	90.0	34.9	LR 5307 KDD	LR 5307 KDDU	-	LR 5307 NPPU
40.0	75.0	21.0	-	-	-	LR 5008 NPPU
40.0	85.0	18.0	-	-	LR 208 NPP	LR 208 NPPU
40.0	85.0	30.2	LR 5208 KDD	LR 5208 KDDU	-	LR 5208 NPPU
40.0	100.0	36.5	LR 5308 KDD	LR 5308 KDDU	-	LR 5308 NPPU
45.0	90.0	19.0	-	-	LR 209 NPP	LR 209 NPPU

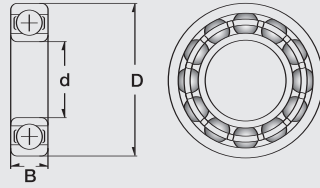
* Load Rating		Radius	* Limiting Speed x1000rpm		Weight (g) approx.
C, dyn. N	C, stat. N		NPP(U)	KDD(U)	
18500	13000	1.1	4.5	6.5	340 g
27500	19500	1.1	3.9	5.5	500 g
15800	11800	1.0	4.0	-	250 g
16600	9600	1.0	5.5	-	330 g
24600	21400	1.0	3.5	5.0	510 g
36500	26500	1.1	3.1	4.3	670 g
17600	13100	1.0	4.3	-	300 g
20200	11900	1.1	4.5	-	400 g
30500	22400	1.1	2.8	3.9	660 g
44500	33000	1.5	2.5	3.6	970 g
18400	14600	1.0	3.1	-	370 g
22800	13600	1.1	4.0	-	450 g
34500	25500	1.1	2.5	3.5	750 g
56000	4200	1.5	2.3	3.3	1200 g
22500	13700	1.1	3.6	-	500 g



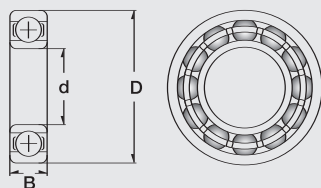
Dimension (mm)			Dimension (inch)			Dimension (inch)		
d	D	B	d	D	B	d	D	B
4.762	17.462	6.350	0.188	0.688	0.250	3/16	11/16	1/4
4.762	17.462	7.937	0.188	0.688	0.313	3/16	11/16	5/16
6.350	17.462	6.350	0.250	0.688	0.250	1/4	11/16	1/4
6.350	17.462	7.937	0.250	0.688	0.313	1/4	11/16	5/16
7.937	22.225	7.143	0.313	0.875	0.281	5/16	7/8	9/32
7.937	22.225	8.731	0.313	0.875	0.344	5/16	7/8	11/32
9.525	22.225	7.143	0.375	0.875	0.281	3/8	7/8	9/32
9.525	22.225	8.731	0.375	0.875	0.344	3/8	7/8	11/32
7.937	23.018	7.937	0.313	0.906	0.313	5/16	29/32	5/16
9.525	23.018	7.937	0.375	0.906	0.313	3/8	29/32	5/16
11.112	23.018	7.937	0.438	0.906	0.313	7/16	29/32	5/16
9.525	28.575	9.525	0.375	1.125	0.375	3/8	1 1/8	3/8
11.112	28.575	9.525	0.438	1.125	0.375	7/16	1 1/8	3/8
12.700	28.575	9.525	0.500	1.125	0.375	1/2	1 1/8	3/8
11.112	34.925	11.112	0.438	1.375	0.438	7/16	1 3/8	7/16
12.700	34.925	11.112	0.500	1.375	0.438	1/2	1 3/8	7/16
14.287	34.925	11.112	0.563	1.375	0.438	9/16	1 3/8	7/16
15.875	34.925	11.112	0.625	1.375	0.438	5/8	1 3/8	7/16
15.875	41.275	12.700	0.625	1.625	0.500	5/8	1 5/8	1/2
19.050	44.450	12.700	0.750	1.750	0.500	3/4	1 3/4	1/2
22.225	50.800	14.287	0.875	2.000	0.563	7/8	2	9/16

Designation/Type				* Load Rating (only 100 Cr6)		Weight (g) approx.
2Z		2RS		C, dyn. N	C, stat. N	
Chrome Steel	Stainless	Chrome Steel	Stainless			
1601-2Z	S1601-2Z			1308	650	5 g
		1601-2RS	S1601-2RS	1308	650	5 g
1602-2Z	S1602-2Z			1308	650	6 g
		1602-2RS	S1602-2RS	1308	650	6 g
1603-2Z	S1603-2Z			2065	1014	9 g
		1603-2RS	S1603-2RS	2065	1014	9 g
1604-2Z	S1604-2Z			2065	1014	8 g
		1604-2RS	S1604-2RS	2065	1014	8 g
1605-2Z	S1605-2Z	1605-2RS	S1605-2RS	2065	1014	16 g
1606-2Z	S1606-2Z	1606-2RS	S1606-2RS	2065	1014	21 g
1607-2Z	S1607-2Z	1607-2RS	S1607-2RS	1780	1020	22 g
1614-2Z	S1614-2Z	1614-2RS	S1614-2RS	1780	1020	35 g
1615-2Z	S1615-2Z	1615-2RS	S1615-2RS	1780	1020	32 g
1616-2Z	S1616-2Z	1616-2RS	S1616-2RS	1780	1020	29 g
1620-2Z	S1620-2Z	1620-2RS	S1620-2RS	2670	1575	45 g
1621-2Z	S1621-2Z	1621-2RS	S1621-2RS	2670	1575	50 g
1622-2Z	S1622-2Z	1622-2RS	S1622-2RS	2670	1575	46 g
1623-2Z	S1623-2Z	1623-2RS	S1623-2RS	2670	1575	40 g
1628-2Z	S1628-2Z	1628-2RS	S1628-2RS	3284	2020	72 g
1635-2Z	S1635-2Z	1635-2RS	S1635-2RS	3284	2020	84 g
1640-2Z	S1640-2Z	1640-2RS	S1640-2RS	4895	3155	111 g

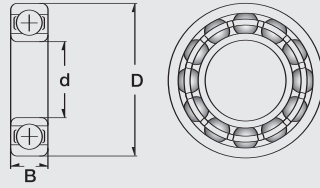
Radialkugellager mit Kunststoffkäfig / Ball Bearings with Plastic Cages



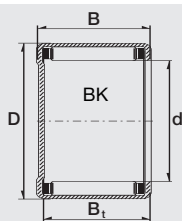
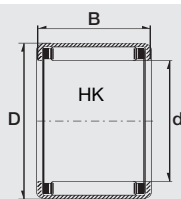
Dimension (mm)			Designation/Type	* Limiting Speed x1000rpm	* Load Rating		Lubrication	Weight (g) approx.
d	D	B			C, dyn. N	C, stat. N		
4.0	13.0	5.0	624-2Z.T9H.C3	40.0	1300	485	Oil	4 g
5.0	16.0	5.0	625-2Z.T9H.C3	36.0	1730	670	Oil	6 g
6.0	13.0	5.0	686-2Z.T9H.C3	40.0	1080	440	Oil	4 g
6.0	19.0	6.0	626-2Z.T9H.C3	32.0	2340	885	Oil	10 g
7.0	14.0	5.0	687-2Z.T9H.C3	40.0	1170	510	Oil	4 g
7.0	19.0	6.0	607-2Z.T9H.C3	36.0	2340	885	Oil	8 g
7.0	22.0	7.0	627-2Z.T9H.C3	30.0	3300	1370	Oil	14 g
8.0	16.0	5.0	688-2Z.T9H.C3	36.0	1260	590	Oil	4 g
8.0	22.0	7.0	608-2Z.T9H.C3	34.0	3300	1370	Oil	14 g
8.0	24.0	8.0	628-2Z.T9H.C3	28.0	3350	1430	Oil	18 g
9.0	17.0	5.0	689-2Z.T9H.C3	36.0	1330	665	Oil	5 g
9.0	26.0	8.0	629-2Z.T9H.C3	28.0	4550	1970	Oil	22 g
10.0	26.0	8.0	6000-2Z.T9H.C3	30.0	4550	1970	Oil	18 g
10.0	30.0	9.0	6200-2Z.T9H.C3	24.0	5100	2390	Oil	32 g
10.0	19.0	5.0	61800-Z.T9H.C3	34.0	1720	840	Oil	6 g



Dimension (mm)			Designation/Type	* Limiting Speed x1000rpm	* Load Rating		Lubrication	Weight (g) approx.
d	D	B			C, dyn. N	C, stat. N		
10.0	22.0	6.0	61900-Z.T9H.C3	32.0	2700	1270	Oil	9 g
12.0	28.0	8.0	6001-2Z.T9H.C3	28.0	5100	2370	Oil	22 g
12.0	32.0	10.0	6201-2Z.T9H.C3	22.0	6800	3050	Oil	37 g
12.0	21.0	5.0	61801-Z.T9H.C3	32.0	1920	1040	Oil	7 g
12.0	24.0	6.0	61901-Z.T9H.C3	30.0	2890	1460	Oil	10 g
15.0	32.0	9.0	6002-2Z.T9H.C3	24.0	5600	2830	Oil	31 g
15.0	35.0	11.0	6202-2Z.T9H.C3	20.0	7650	3750	Oil	45 g
15.0	24.0	5.0	61802-Z.T9H.C3	28.0	2070	1260	Oil	8 g
15.0	28.0	7.0	61902-Z.T9H.C3	26.0	4350	2260	Oil	15 g
17.0	35.0	10.0	6003-2Z.T9H.C3	22.0	6000	3250	Oil	41 g
17.0	40.0	12.0	6203-2Z.T9H.C3	17.0	9550	4800	Oil	67 g
17.0	26.0	5.0	61803-Z.T9H.C3	26.0	2630	1570	Oil	9 g
17.0	30.0	7.0	61903-Z.T9H.C3	24.0	4600	2550	Oil	10 g
20.0	42.0	12.0	6004-2Z.T9H.C3	18.0	9400	5000	Oil	68 g
20.0	47.0	14.0	6204-2Z.T9H.C3	15.0	12800	6600	Oil	107 g



standard or flanged	Dimension (mm)			Dimension (inch)	Designation/Type		* Load Rating		* Limiting Speed x1000 rpm	Weight (g) approx.
	d	D	B	d	Chrome Steel		C, dyn. N	C, stat. N	Grease	
					2Z	2RS/2TS				
standard	6.000	21.00	6.00	-	626/21-2Z	-	2336	896	32.0	8 g
standard	8.000	22.00	6.00	-	608-2ZW6	-	3293	1379	34.0	12 g
standard	8.000	24.00	7.00	-	608/24-2Z	-	3293	1379	34.0	14 g
standard	8.000	26.00	7.00	-	608/26-2Z	-	3293	1379	34.0	15 g
standard	10.000	35.00	11.00	-	6200/35-2Z	-	5100	2390	24.0	45 g
standard	12.700	32.00	10.00	0.500 (1/2)	6201-2Z1/2	6201-2RS1/2*	6800	3050	22.0	37 g
standard	13.000	32.00	10.00	-	6201-2Z/13	-	6800	3050	22.0	37 g
standard	15.875	35.00	11.00	0.625 (5/8)	6202-2Z5/8	6202-2RS5/8*	7650	3750	20.0	45 g
standard	16.000	35.00	11.00	-	6202-2Z/16	-	7650	3750	20.0	45 g
standard	15.000	47.00	11.00	-	6202/47-2Z	6202/47-2RS*	7650	3750	20.0	100 g
standard	15.875	40.00	12.00	0.625 (5/8)	6203-2Z5/8	6203-2RS5/8*	9550	4800	17.0	67 g
standard	16.000	40.00	12.00	-	6203-2Z/16	-	9550	4800	17.0	67 g
standard	19.050	40.00	12.00	-	6203-2Z3/4	6203-2RS3/4*	9550	4800	17.0	67 g
standard	19.050	47.00	12.00	0.750 (3/4)	6204-2Z3/4	-	12800	6600	15.0	107 g
standard	22.225	47.00	14.00	0.750 (3/4)	6204-2Z7/8	-	12800	6600	15.0	107 g



Needle Roller Bearings

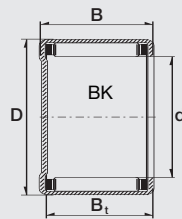
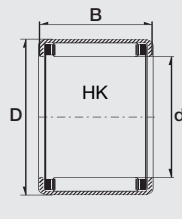
HK series with open ends

Drawn Cup

Needle Roller Bearings

BK series with closed end

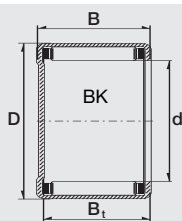
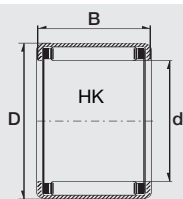
Designation/Type		Dimension (mm)				* Load Rating		Limiting speed x1000rpm
with open ends	with closed end	d	D	B Tol.-0.3	B _t min. only BK	C, dyn. N	C, stat. N	
HK 0608	-	6	10	8	-	1980	1540	34.0
HK 0609	BK 0609	6	10	9	7.4	2650	2400	35.0
HK 0709	BK 0709	7	11	9	7.4	2850	2750	30.0
HK 0808	BK 0808	8	12	8	6.4	2550	2400	27.0
HK 0810	BK 0810	8	12	10	8.4	3500	3650	27.0
HK 0908	-	9	13	8	-	3300	3500	26.0
HK 0910	BK 0910	9	13	10	8.4	4000	4300	26.0
HK 0912	BK 0912	9	13	12	10.4	5000	5900	26.0
HK 1010	BK 1010	10	14	10	8.4	4100	4700	22.0
HK 1012	BK 1012	10	14	12	10.4	5100	6300	22.5
HK 1015	BK 1015	10	14	15	13.4	6300	8200	22.0
HK 1210	BK 1210	12	16	10	8.4	4600	5800	21.0
HK 1212	BK 1212	12	18	12	9.3	6000	6800	19.5
HK 1312	BK 1312	13	19	12	9.3	6300	7300	18.5
HK 1412	BK 1412	14	20	12	9.3	6600	7900	15.0
HK 1512	BK 1512	15	21	12	9.3	7300	8700	15.0
HK 1516	BK 1516	15	21	16	13.3	9800	13400	15.5
HK 1612	BK 1612	16	22	12	9.3	7100	9000	15.0
HK 1616	BK 1616	16	22	16	13.3	10100	14200	15.0
HK 1712	-	17	23	12	-	7300	5600	13.5
HK 1812	BK 1812	18	24	12	9.3	7500	10100	13.0
HK 1816	BK 1816	18	24	16	13.3	10800	16000	14.0
HK 2010	-	20	26	10	-	6000	7600	11.5
HK 2012	-	20	26	12	-	8000	11200	12.0
HK 2016	BK 2016	20	26	16	13.3	12000	19000	12.5



Needle Roller Bearings
HK series with open ends

Drawn Cup
Needle Roller Bearings
BK series with closed end

Designation/Type		Dimension (mm)				* Load Rating		Limiting speed x1000rpm
with open ends	with closed end	d	D	B Tol.-0.3	B _t min. only BK	C, dyn. N	C, stat. N	
HK 2020	BK 2020	20	26	20	17.3	15500	24000	12.0
HK 2210	-	22	28	10	-	7000	10000	11.5
HK 2212	BK 2212	22	28	12	9.3	8500	12500	11.5
HK 2216	BK 2216	22	28	16	13.3	12500	20500	11.5
HK 2220	-	22	28	20	-	15000	27000	11.5
HK 2512	-	25	32	12	-	10000	15000	9.5
HK 2516	-	25	32	16	-	14500	22000	10.0
HK 2520	BK 2520	25	32	20	17.3	18500	30000	10.0
HK 2526	BK 2526	25	32	26	23.3	23500	42000	10.0
HK 2816	-	28	35	16	-	15000	24500	8.5
HK 2820	-	28	35	20	-	20000	33500	8.5
HK 3012	BK 3012	30	37	12	9.3	11000	17000	8.5
HK 3016	BK 3016	30	37	16	13.3	16000	27000	8.5
HK 3020	BK 3020	30	37	20	17.3	21000	37000	8.5
HK 3026	BK 3026	30	37	26	23.3	26000	50000	8.5
HK 3512	-	35	42	12	-	12000	20000	7.0



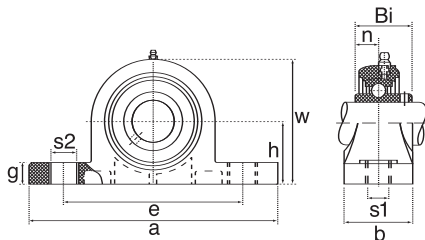
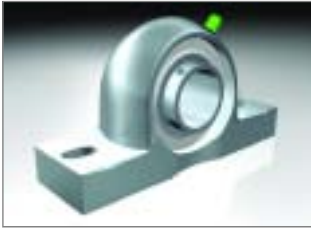
Needle Roller Bearings

HK series with open ends

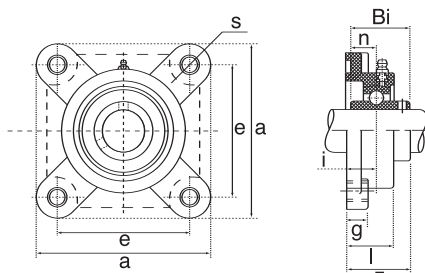
**Drawn Cup
Needle Roller Bearings**

BK series with closed end

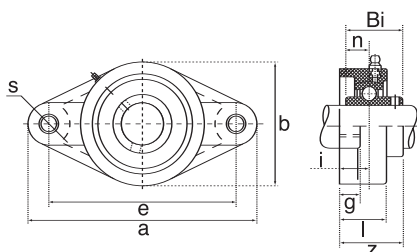
Designation/Type		Dimension (mm)				* Load Rating		Limiting speed x1000rpm
with open ends	with closed end	d	D	B Tol.-0.3	B _t min. only BK	C, dyn. N	C, stat. N	
HK 3516	-	35	42	16	-	18500	31000	7.0
HK 3520	BK 3520	35	42	20	17.3	22000	43000	7.5
HK 4012	-	40	47	12	-	13000	22600	6.0
HK 4016	-	40	47	16	-	18600	36000	6.0
HK 4020	BK 4020	40	47	20	17.3	24000	50000	6.0
HK 4512	-	45	52	12	-	14000	25500	5.5
HK 4516	-	45	52	16	-	20000	40500	5.5
HK 4520	BK 4520	45	52	20	17.3	25000	54500	5.5
HK 5020	-	50	58	20	-	29000	58500	5.0
HK 5025	-	50	58	25	-	35800	78000	4.8
HK 5520	-	55	63	20	-	29500	62300	4.6
HK 5528	-	55	63	28	-	41000	95800	4.6
HK 6012	-	60	68	12	-	16200	30000	4.1
HK 6020	-	60	68	20	-	31000	70000	4.4
HK 6032	-	60	68	32	-	49500	125500	4.4



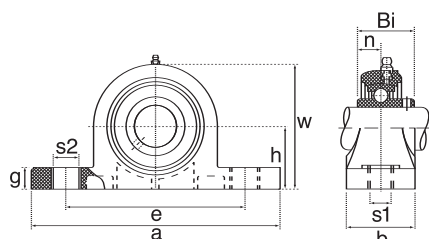
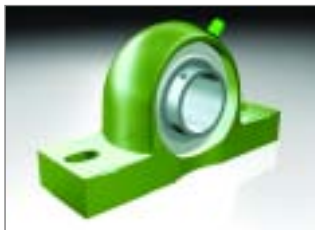
Ref.										Weight	
Type	Da	h	a	e	b	S1	S2	g	w	(kg)	Bearing
SP204	47	33.3	126	95.0	38	11.0	17.5	15.1	65.1	0.69	SUC204
SP205	52	36.5	140	105.0	38	12.5	17.5	16.0	70.0	0.74	SUC205
SP206	62	42.9	165	121.0	48	14.3	21.0	18.0	83.0	1.29	SUC206
SP207	72	47.6	167	127.0	48	14.3	22.0	19.0	94.0	1.42	SUC207
SP208	80	49.2	184	136.5	54	14.3	22.0	19.0	100.0	1.82	SUC208
SP209	85	54.0	190	146.0	54	15.0	22.0	20.0	109.0	2.09	SUC209
SP210	90	57.2	206	159.0	60	18.0	24.0	22.0	114.0	2.38	SUC210



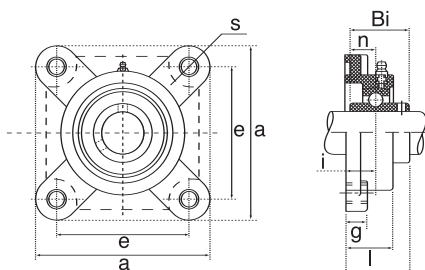
Ref.								Weight	
Type	Da	a	e	i	l	g	s	(kg)	Bearing
SF204	47	86.0	63.5	15.1	25.4	12.0	11.0	0.47	SUC204
SF205	52	95.0	70.0	15.9	27.0	14.0	11.5	0.65	SUC205
SF206	62	108.0	82.5	17.9	30.0	14.0	13.1	0.85	SUC206
SF207	72	117.5	92.0	19.1	33.0	14.3	13.1	1.03	SUC207
SF208	80	130.0	101.6	21.0	36.0	14.3	14.0	1.38	SUC208
SF209	85	137.0	104.8	21.8	37.0	14.3	16.0	1.50	SUC209
SF210	90	143.0	111.0	21.8	38.0	15.1	16.0	1.63	SUC210



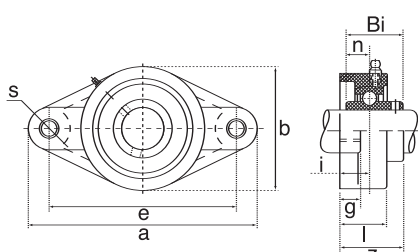
Ref.									Weight	
Type	Da	a	e	i	b	l	g	s	(kg)	Bearing
SFL204	47	112.0	89.7	15.1	60	25.4	11.5	11	0.32	SUC204
SFL205	52	125.0	98.8	15.9	68	27.0	13.0	12	0.44	SUC205
SFL206	62	141.0	116.7	17.9	80	30.0	13.0	12	0.58	SUC206
SFL207	72	155.5	130.2	19.1	90	33.0	14.3	13	0.74	SUC207
SFL208	80	171.5	143.7	21.0	100	36.0	14.3	13	0.99	SUC208
SFL209	85	179.0	148.4	21.8	108	37.0	14.3	16	1.16	SUC209
SFL210	90	189.0	157.0	21.8	115	38.0	15.1	16	1.36	SUC210



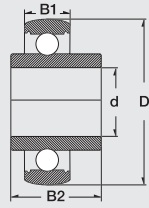
Ref.											Weight	
Type	h	a	e	b	S1	S2	g	w	Bi	n	(kg)	Bearing
TP201	33.3	127.0	95	38	11	14	14.2	65.0	31.0	12.7	0.12	SUC201
TP202	33.3	127.0	95	38	11	14	14.2	65.0	31.0	12.7	0.12	SUC202
TP203	33.3	127.0	95	38	11	14	14.2	65.0	31.0	12.7	0.12	SUC203
TP204	33.3	127.0	95	38	11	14	14.2	69.5	31.0	12.7	0.12	SUC204
TP205	36.5	140.6	105	38	11	14	14.5	71.0	34.0	14.3	0.14	SUC205
TP206	42.9	163.0	118	46	14	18	17.8	84.0	38.1	15.9	0.20	SUC206
TP207	47.6	168.0	127	48	14	18	18.0	94.5	42.9	17.5	0.25	SUC207
TP208	49.2	184.0	137	54	14	18	19.5	99.0	49.2	19.0	0.35	SUC208
TP209	54.0	192.0	146	54	17	20	23.0	106.0	49.2	19.0	0.45	SUC209
TP210	57.2	206.0	159	60	17	20	23.0	114.0	51.6	19.0	0.55	SUC210



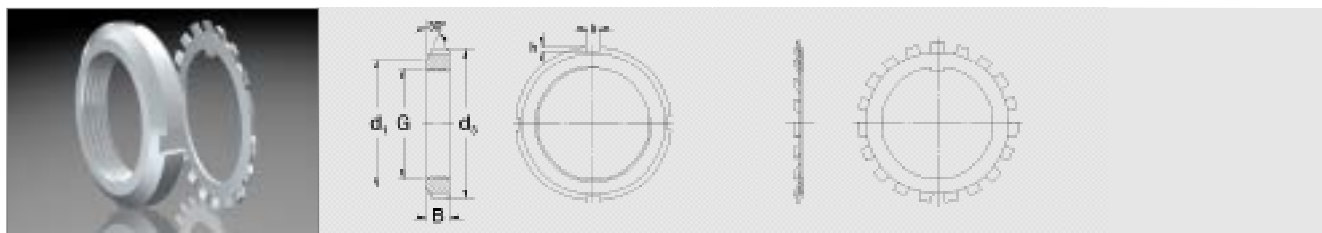
Ref.										Weight	
Type	a	e	g	l	s	z	i	Bi	n	(kg)	Bearing
TF201	86	63.5	13.4	27.8	11	36.3	18.0	31.0	12.7	0.12	SUC201
TF202	86	63.5	13.4	27.8	11	36.3	18.0	31.0	12.7	0.12	SUC202
TF203	86	63.5	13.4	27.8	11	36.3	18.0	31.0	12.7	0.12	SUC203
TF204	86	63.5	13.4	27.8	11	36.3	18.0	31.0	12.7	0.12	SUC204
TF205	95	70.0	14.0	28.0	11	36.7	17.0	34.0	14.3	0.15	SUC205
TF206	107	83.0	14.3	31.5	11	41.4	19.2	38.1	15.9	0.18	SUC206
TF207	118	92.0	15.5	34.8	13	46.9	21.5	42.9	17.5	0.26	SUC207
TF208	130	102.0	17.0	37.5	14	53.2	23.0	49.2	19.0	0.33	SUC208
TF209	137	105.0	19.0	41.0	17	54.2	24.0	49.2	19.0	0.42	SUC209
TF210	143	111.0	21.0	43.0	17	57.6	25.0	51.6	19.0	0.51	SUC210



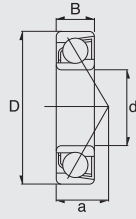
Ref.											Weight	
Type	a	e	b	g	l	s	z	i	Bi	n	(kg)	Bearing
TLF201	113	90	64.0	11.4	26.5	11	33.7	15.4	31.0	12.7	0.08	SUC201
TLF202	113	90	64.0	11.4	26.5	11	33.7	15.4	31.0	12.7	0.08	SUC202
TLF203	113	90	64.0	11.4	26.5	11	33.7	15.4	31.0	12.7	0.08	SUC203
TLF204	113	90	64.0	11.4	26.5	11	33.7	15.4	31.0	12.7	0.08	SUC204
TLF205	131	99	69.6	13.5	29.1	11	36.7	17.0	34.0	14.3	0.10	SUC205
TLF206	148	117	80.0	13.3	30.5	11	41.2	19.0	38.1	15.9	0.13	SUC206
TLF207	164	130	90.0	16.1	32.9	13	43.4	19.0	42.9	17.5	0.16	SUC207
TLF208	176	144	100.0	20.0	37.5	14	51.7	21.5	49.2	19.0	0.24	SUC208
TLF209	188	148	108.0	21.0	41.0	17	54.2	24.0	49.2	19.0	0.32	SUC209
TLF210	197	157	115.0	21.0	43.0	17	57.6	25.0	51.6	19.0	0.42	SUC210



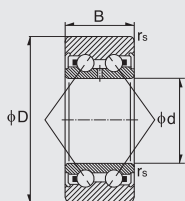
Dimension (mm)				Designation/Type	* Load Rating	
d	D	B1	B2		C, dyn. N	C, stat. N
12.0	47.0	17.0	31.0	SUC 201	7500	4500
15.0	47.0	17.0	31.0	SUC 202	7500	4500
17.0	47.0	17.0	31.0	SUC 203	7500	4500
20.0	47.0	17.0	31.0	SUC 204	10000	6300
25.0	52.0	17.0	34.1	SUC 205	11000	7100
30.0	62.0	19.0	38.1	SUC 206	15200	10200
35.0	72.0	20.0	42.9	SUC 207	20100	18100
40.0	80.0	21.0	49.2	SUC 208	23000	18100
45.0	85.0	22.0	49.2	SUC 209	25600	18100
50.0	90.0	23.0	31.6	SUC 210	27500	20200



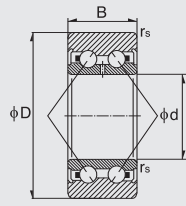
Designation/Type		Dimension (mm)					
Lock nut	Appropriate locking washer	G	d ₁	d ₃	B	b	h
SKM 0	SMB 0	M 10 x 0,75	13,5	18	4	3	2
SKM 1	SMB 1	M 12 x 1	17	22	4	3	2
SKM 2	SMB 2	M 15 x 1	21	25	5	4	2
SKM 3	SMB 3	M 17 x 1	24	28	5	4	2
SKM 4	SMB 4	M 20 x 1	26	32	6	4	2
SKM 5	SMB 5	M 25 x 1,5	32	38	7	5	2
SKM 6	SMB 6	M 30 x 1,5	38	45	7	5	2
SKM 7	SMB 7	M 35 x 1,5	44	52	8	5	2
SKM 8	SMB 8	M 40 x 1,5	50	58	9	6	2,5
SKM 9	SMB 9	M 45 x 1,5	56	65	10	6	2,5
SKM 10	SMB 10	M 50 x 1,5	61	70	11	6	2,5
SKM 11	SMB 11	M 55 x 2	67	75	11	7	3
SKM 12	SMB 12	M 60 x 2	73	80	11	7	3
SKM 13	SMB 13	M 65 x 2	79	85	12	7	3
SKM 14	SMB 14	M 70 x 2	85	92	12	8	3,5
SKM 15	SMB 15	M 75 x 2	90	98	13	8	3,5
SKM 16	SMB 16	M 80 x 2	95	105	15	8	3,5
SKM 17	SMB 17	M 85 x 2	102	110	16	8	3,5
SKM 18	SMB 18	M 90 x 2	108	120	16	10	4
SKM 19	SMB 19	M 95 x 2	113	125	17	10	4
SKM 20	SMB 20	M 100 x 2	120	130	18	10	4



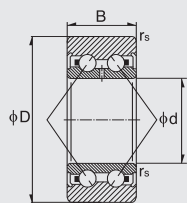
Dimension (mm)			Designation/Type				* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open)		Weight (g) approx.
d	D	B	Open		2RS		C, dyn. N	C, stat. N	Grease	Oil	
			Chrome Steel	Stainless	Chrome Steel	Stainless					
10.0	30.0	9.0	7200B	S7200B	7200B-2RS	avail. / lieferb.	6350	2720	11.9	23.5	30 g
12.0	32.0	10.0	7201B	S7201B	7201B-2RS	avail. / lieferb.	8050	3740	17.5	23.5	30 g
15.0	35.0	11.0	7202B	S7202B	7202B-2RS	avail. / lieferb.	8700	4360	16.0	21.5	40 g
17.0	40.0	12.0	7203B	S7203B	7203B-2RS	avail. / lieferb.	10700	5550	14.2	19.0	60 g
20.0	47.0	14.0	7204B	S7204B	7204B-2RS	avail. / lieferb.	15400	8200	12.4	17.0	100 g
25.0	52.0	15.0	7205B	S7205B	7205B-2RS	avail. / lieferb.	16400	9350	11.0	14.9	120 g
30.0	62.0	16.0	7206B	S7206B	7206B-2RS	avail. / lieferb.	23400	14300	9.4	12.7	190 g
35.0	72.0	17.0	7207B	S7207B	7207B-2RS	avail. / lieferb.	30300	19100	8.2	11.0	260 g
40.0	80.0	18.0	7208B	S7208B	7208B-2RS	avail. / lieferb.	35500	23000	7.3	9.9	350 g
45.0	85.0	19.0	7209B	S7209B	7209B-2RS	avail. / lieferb.	37200	25400	6.8	9.1	400 g
50.0	90.0	20.0	7210B	S7210B	7210B-2RS	avail. / lieferb.	38800	27800	6.3	8.5	440 g
10.0	35.0	11.0	7300B	S7300B	7300B-2RS	avail. / lieferb.	9150	3840	10.8	21.5	60 g
12.0	37.0	12.0	7301B	S7301B	7301B-2RS	avail. / lieferb.	10900	4960	16.0	22.0	60 g
15.0	42.0	13.0	7302B	S7302B	7302B-2RS	avail. / lieferb.	13100	6100	14.2	19.0	80 g
17.0	47.0	14.0	7303B	S7303B	7303B-2RS	avail. / lieferb.	16600	8300	12.9	17.5	110 g
20.0	52.0	15.0	7304B	S7304B	7304B-2RS	avail. / lieferb.	19300	9900	11.7	16.0	150 g
25.0	62.0	17.0	7305B	S7305B	7305B-2RS	avail. / lieferb.	25000	13400	9.9	13.3	220 g
30.0	72.0	19.0	7306B	S7306B	7306B-2RS	avail. / lieferb.	33700	19400	8.5	11.5	330 g
35.0	80.0	21.0	7307B	S7307B	7307B-2RS	avail. / lieferb.	37400	22200	7.6	10.3	430 g
40.0	90.0	23.0	7308B	S7308B	7308B-2RS	avail. / lieferb.	49300	29900	6.8	9.1	600 g
45.0	100.0	25.0	7309B	S7309B	7309B-2RS	avail. / lieferb.	60500	38800	6.1	8.2	810 g
50.0	110.0	27.0	7310B	S7310B	7310B-2RS	avail. / lieferb.	72000	47100	5.5	7.4	1050 g



Dimension (mm)			Designation/Type				* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open)		Weight (g) approx.
d	D	B	Open		2RS		C, dyn. N	C, stat. N	Grease	Oil	
			Chrome Steel	Stainless	Chrome Steel	Stainless					
10.0	30.0	9.0	1200	S1200	1200-2RS	S1200-2RS	4050	1290	22.0	-	34 g
12.0	32.0	10.0	1201	S1201	1201-2RS	S1201-2RS	4600	1400	21.0	-	40 g
15.0	35.0	11.0	1202	S1202	1202-2RS	S1202-2RS	5600	1960	18.5	-	49 g
17.0	40.0	12.0	1203	S1203	1203-2RS	S1203-2RS	5900	2300	17.5	-	73 g
20.0	47.0	14.0	1204	S1204	1204-2RS	S1204-2RS	7500	2950	14.5	-	120 g
25.0	52.0	15.0	1205	S1205	1205-2RS	S1205-2RS	9150	3900	12.0	-	140 g
30.0	62.0	16.0	1206	S1206	1206-2RS	S1206-2RS	11000	5500	10.0	-	220 g
10.0	30.0	14.0	2200	S2200	2200-2RS	S2200-2RS	5300	1530	22.0	28.0	47 g
12.0	32.0	14.0	2201	S2201	2201-2RS	S2201-2RS	6000	1960	20.0	25.0	53 g
15.0	35.0	14.0	2202	S2202	2202-2RS	S2202-2RS	6000	2190	18.0	22.0	60 g
17.0	40.0	16.0	2203	S2203	2203-2RS	S2203-2RS	7900	2800	16.0	19.0	88 g
20.0	47.0	18.0	2204	S2204	2204-2RS	S2204-2RS	9800	3950	13.0	16.0	140 g
25.0	52.0	18.0	2205	S2205	2205-2RS	S2205-2RS	9800	4350	12.0	14.0	165 g
30.0	62.0	20.0	2206	S2206	2206-2RS	S2206-2RS	12200	6800	10.0	12.0	260 g
35.0	72.0	23.0	2207	S2207	2207-2RS	S2207-2RS	17100	8400	8.5	10.0	405 g
40.0	80.0	23.0	2208	S2208	2208-2RS	S2208-2RS	17700	9650	7.5	9.0	505 g
45.0	85.0	23.0	2209	S2209	2209-2RS	S2209-2RS	18400	10900	7.1	8.5	545 g
50.0	90.0	23.0	2210	S2210	2210-2RS	S2210-2RS	18400	11500	6.3	8.0	590 g

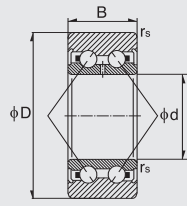


Dimension (mm)			Designation/Type				* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open)		Weight (g) approx.
d	D	B	Open		2RS		C, dyn. N	C, stat. N	Grease	Oil	
			Chrome Steel	Stainless	Chrome Steel	Stainless					
10.0	30.0	14.0	3200	S3200	3200-2RS	S3200-2RS	7600	5850	16.0	20.0	50 g
12.0	32.0	15.9	3201	S3201	3201-2RS	S3201-2RS	8750	6500	15.0	19.0	60 g
15.0	35.0	15.9	3202	S3202	3202-2RS	S3202-2RS	11100	9100	13.0	17.0	70 g
17.0	40.0	17.5	3203	S3203	3203-2RS	S3203-2RS	14400	8650	10.0	15.0	103 g
20.0	47.0	20.6	3204	S3204	3204-2RS	S3204-2RS	19300	12000	9.0	13.0	168 g
25.0	52.0	20.6	3205	S3205	3205-2RS	S3205-2RS	20900	14100	8.0	11.0	194 g
30.0	62.0	23.8	3206	S3206	3206-2RS	S3206-2RS	29100	20100	7.1	9.0	316 g
35.0	72.0	27.0	3207	S3207	3207-2RS	S3207-2RS	38400	27400	5.6	7.1	484 g
40.0	80.0	30.2	3208	S3208	3208-2RS	S3208-2RS	47400	34600	5.0	6.3	654 g
45.0	85.0	30.2	3209	S3209	3209-2RS	S3209-2RS	47500	35400	4.5	5.4	709 g
50.0	90.0	30.2	3210	S3210	3210-2RS	S3210-2RS	50700	40200	4.0	4.6	764 g
17.0	47.0	22.2	3303	S3303	3303-2RS	S3303-2RS	20900	11900	9.5	14.0	190 g
20.0	52.0	22.2	3304	S3304	3304-2RS	S3304-2RS	23100	14500	8.5	12.0	230 g
25.0	62.0	25.4	3305	S3305	3305-2RS	S3305-2RS	29500	19100	7.5	10.0	369 g
30.0	72.0	30.2	3306	S3306	3306-2RS	S3306-2RS	41000	27400	6.2	7.9	585 g
35.0	80.0	34.9	3307	S3307	3307-2RS	S3307-2RS	51200	33200	5.1	6.5	816 g
40.0	90.0	36.5	3308	S3308	3308-2RS	S3308-2RS	61900	43400	4.7	5.8	1070 g
45.0	100.0	38.7	3309	S3309	3309-2RS	S3309-2RS	89000	79300	4.5	6.0	1420 g
50.0	110.0	44.4	3310	S3310	3310-2RS	S3310-2RS	107000	96300	4.0	5.3	1930 g
17.0	40.0	17.5	5203	S5203	5203-2RS	S5203-2RS	14600	9050	11.0	16.0	96 g
20.0	47.0	20.0	5204	S5204	5204-2RS	S5204-2RS	19600	12400	10.0	15.0	160 g
25.0	52.0	20.6	5205	S5205	5205-2RS	S5205-2RS	21300	14700	8.5	11.0	180 g
30.0	62.0	23.8	5206	S5206	5206-2RS	S5206-2RS	25600	21100	7.1	9.5	290 g

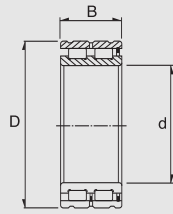


Dimension (mm)			Designation/Type				* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open)		Weight (g) approx.
d	D	B	Open		2RS		C, dyn. N	C, stat. N	Grease	Oil	
			Chrome Steel	Stainless	Chrome Steel	Stainless					
35.0	72.0	27.0	5207	S5207	5207-2RS	S5207-2RS	39000	28700	6.3	8.0	440 g
40.0	80.0	30.2	5208	S5208	5208-2RS	S5208-2RS	44000	33500	5.6	7.5	580 g
45.0	85.0	30.2	5209	S5209	5209-2RS	S5209-2RS	49500	38000	5.0	6.7	630 g
50.0	90.0	30.2	5210	S5210	5210-2RS	S5210-2RS	53000	43500	4.8	6.3	660 g
17.0	47.0	22.2	5303	S5303	5303-2RS	S5303-2RS	21000	12600	10.0	14.0	180 g
20.0	52.0	22.2	5304	S5304	5304-2RS	S5304-2RS	24600	16000	9.0	12.0	220 g
25.0	62.0	25.4	5305	S5305	5305-2RS	S5305-2RS	32500	20700	7.5	10.0	350 g
30.0	72.0	30.2	5306	S5306	5306-2RS	S5306-2RS	40500	28100	6.3	8.5	530 g
35.0	80.0	34.9	5307	S5307	5307-2RS	S5307-2RS	51000	36000	5.6	7.5	730 g
40.0	90.0	36.5	5308	S5308	5308-2RS	S5308-2RS	56500	41000	5.3	6.7	950 g
45.0	100.0	38.7	5309	S5309	5309-2RS	S5309-2RS	68500	51000	4.5	6.0	1400 g
50.0	110.0	44.4	5310	S5310	5310-2RS	S5310-2RS	81800	62200	3.6	5.3	1950 g

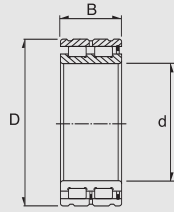
Zweireihige Kugellager / Double Row Bearings



Dimension (mm)			Designation/Type				* Load Rating (only 100 Cr6)		* Limiting Speed x1000rpm (open)		Weight (g) approx.
d	D	B	Open		2RS		C, dyn. N	C, stat. N	Grease	Oil	
			Chrome Steel	Stainless	Chrome Steel	Stainless					
10.0	30.0	14.0	4200	S4200	4200-2RS	S4200-2RS	6400	5100	18.0	22.0	54 g
12.0	32.0	14.0	4201	S4201	4201-2RS	S4201-2RS	7100	5700	17.0	20.0	60 g
15.0	35.0	14.0	4202	S4202	4202-2RS	S4202-2RS	7800	6800	14.0	17.0	80 g
17.0	40.0	16.0	4203	S4203	4203-2RS	S4203-2RS	11700	10400	10.0	14.2	100 g
20.0	47.0	18.0	4204	S4204	4204-2RS	S4204-2RS	16400	16000	9.0	12.4	159 g
25.0	52.0	18.0	4205	S4205	4205-2RS	S4205-2RS	16300	16900	7.5	11.0	181 g
30.0	62.0	20.0	4206	S4206	4206-2RS	S4206-2RS	22000	24700	6.4	9.5	277 g
35.0	72.0	23.0	4207	S4207	4207-2RS	S4207-2RS	26400	30700	5.6	8.2	463 g
40.0	80.0	23.0	4208	S4208	4208-2RS	S4208-2RS	33200	42400	4.7	7.3	553 g
45.0	85.0	23.0	4209	S4209	4209-2RS	S4209-2RS	31800	43900	4.6	6.8	621 g
50.0	90.0	28.0	4210	S4210	4210-2RS	S4210-2RS	31400	44600	4.2	6.3	635 g



Dimension (mm)			Designation/Type	Basic Load Rating kN		Limiting Speed x1000rpm	Weight (kg)
d	D	B		Cr	Co		
40	68	38	SL04-5008PP	79.5	116	2500	0.552
45	75	40	SL04-5009PP	95.5	144	2200	0.688
50	80	40	SL04-5010PP	100	158	2000	0.752
55	90	46	SL04-5011PP	118	193	1800	1.12
60	95	46	SL04-5012PP	123	208	1700	1.20
65	100	46	SL04-5013PP	128	224	1500	1.27
70	110	54	SL04-5014PP	171	285	1400	1.87
75	115	54	SL04-5015PP	197	325	1300	1.97
80	125	60	SL04-5016PP	205	350	1300	2.66
85	130	60	SL04-5017PP	214	380	1200	2.79
90	140	67	SL04-5018PP	305	540	1100	3.71
95	145	67	SL04-5019PP	310	560	1100	3.87
100	150	67	SL04-5020PP	330	580	1000	4.03
110	170	80	SL04-5022PP	385	695	910	7.00
120	180	80	SL04-5024PP	400	750	830	7.50
130	200	95	SL04-5026PP	535	1000	770	11.4
140	210	95	SL04-5028PP	600	1120	710	12.1
155	225	100	SL04-5030PP	690	1290	670	14.6
160	240	109	SL04-5032PP	720	1390	630	18.2
170	260	122	SL04-5034PP	925	1790	590	24.6
180	280	136	SL04-5036PP	1090	2140	560	32.3
190	290	136	SL04-5038PP	1120	2230	530	33.7
200	310	150	SL04-5040PP	1310	2650	500	43.5
220	340	160	SL04-5044PP	1640	3300	450	55.5
240	360	160	SL04-5048PP	1710	3550	420	59.5
260	400	190	SL04-5052PP	2130	4500	380	90.7
280	420	190	SL04-5056PP	2170	4700	360	96.2
300	460	218	SL04-5060PP	2670	5850	330	137
320	480	218	SL04-5064PP	2720	6100	310	144
340	520	243	SL04-5068PP	3650	8000	290	194



Dimension (mm)			Designation/Type	Basic Load Rating N		Limiting Speed x1000rpm	Weight (kg)
d	D	B		C	Co		
20	42	30	SL18 5004PP	47.5	53	9000	0.2
25	47	30	SL18 5005PP	54	65	7500	0.23
30	55	34	SL18 5006PP	70	86	6500	0.35
35	62	36	SL18 5007PP	85	109	5500	0.46
40	68	38	SL18 5008PP	101	136	5000	0.56
45	75	40	SL18 5009PP	108	151	4600	0.71
50	80	40	SL18 5010PP	131	184	4300	0.76
55	90	46	SL18 5011PP	179	270	3700	1.16
60	85	25	SL18 4912PP	67	115	3700	0.48
60	95	46	SL18 5012PP	184	280	3500	1.24
65	100	46	SL18 5013PP	194	310	3200	1.32
70	100	30	SL18 4914PP	103	178	3200	0.78
70	110	54	SL18 5014PP	229	340	3100	1.85
75	115	54	SL18 5015PP	242	375	2800	1.93
80	110	30	SL18 4916PP	109	199	2900	0.88
80	125	60	SL18 5016PP	295	450	2600	2.59
85	130	60	SL18 5017PP	305	470	2500	2.72
90	125	35	SL18 4918PP	149	280	2500	1.35
90	140	67	SL18 5018PP	355	560	2300	3.62
100	140	40	SL18 4920PP	191	370	2200	1.95
100	150	67	SL18 5020PP	375	610	2200	3.94
110	150	40	SL18 4922PP	198	400	2100	2.15
110	170	80	SL18 5022PP	490	790	2000	6.32
120	165	45	SL18 4924PP	222	440	1900	2.95
120	180	80	SL18 5024PP	520	870	1800	6.77

Offene Ausführung (metrisch) / Open Type (metric series)

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN	SKF
1	0.0394	681	AX1		681	UL103			L-310		681
		MR31							L-310W51		
		691			691				R-410		691
1.2	0.0472	MR41X						R-412	BC1,2-4		
1.5	0.0591	681X	AX1.5		68/1.5	UL154			R-415	68/1.5	
		691X	619/1.5	MR69/1.5	69/1.5	R1550	19M1-5Y1	EL1.5C	R-515	69/1.5	
		601X						R-615	60/1.5		
2	0.0787	682	BX2	MR682	682	UL205		UL20C	L-520		682
		MR52							L-520W02	BC2.5	
		692	AX2	MR619/2	692	R2060	19M2Y1	EL2C	R-620		692
		MR62						R-620W52	BC2-6		
		MR72						R-720Y52	BC2-7		
		602						R-720		602	
2.5	0.0984	682X	AX2.5		68/2.5	UL256	18M2-5		L-625	68/2.5	
		692X	X2.5		69/2.5		19M2-5Y1		R-725	69/2.5	
		MR82X							R-825Y52	BC2.5-8	
		602X	60/2.5	MR60/2.5	60/2.5	R2580			R-825Y52	60/2.5	
3	0.1181	MR63	617/3						L-630		673
		683	AX3	MR618/3	683	UL307		UL30C	L-730		683
		MR83	X3		693/003				R-830Y52	BC3-8	
		693	619/3		693			R-830Y52		693	
		MR93							R-930Y52	BC3-9	
		603							R-930		603
		623	623	MR623	623	R3100	2M3Y1	EL-3R	R-1030		623
		633									633
4	0.1575	MR74	617/4						L-740		674
		MR84							L-840	BC4-8	
		684	AX4	MR618/4	684	UL409		UL40C	L-940		684
		MR104	X4					L-1040	BC4-10		
		694	AY4		694			R-1140		694	
		604	604		604			R-1240		604	
		624	624	MR624	624	R4130	2M4	EL4R	R-1340		624
		634	634	MR634	634	R4160	34		R-1640		634
5	0.1969	MR85	617/5						L-850		675
		MR95							L-950	BC5-9	
		MR105							L-1050	BC5-10	
		685	X5	MR618/5	685	UL511	UL50C	UL50C	L-1150		685
		695	AY5		695				R-1350		695
		605			605				R-1450		605
		625	625	MR625	625	R5160	34-5	EL5R	R-1650		625
		635	635	MR635	635	R5190	35		R-1950		635
6	0.2362	MR106	617/6						L-1060		676
		MR126	X6						L-1280	BC6-12	
		686	AX6	MR618/6	686	UL613		UL60C	L-1380		686
		696	AY6		696			R-1580		696	
		606						R-1760		606	
		626	626	MR628	626	R6190	38	EL6R	R1960		626
7	0.2756	MR117	617/7						L-1170		677
		MR137							L-1370	BC7-13	
		687	AX7	618/7	687	UL714		UL70C	L-1470		687
		697	AY7		697					697	
		607	607	MR607	607			EL7R	R-1970		607
		627	627	MR627	627	R7220	37		R-2270		627
8	0.315	MR128	617/8						L-1280		678
		MR148							L-1480	BCB-14	
		688	X8	MR618/8	688	UL816			L-1680		688
		698	AY8		698		19M8	R-1980		698	
		608	608	MR608	608	R8220	38	EL8R	R-2280		608
		628									628
9	0.3543	689	X9		689	UL917			L-1790		689
		699	AY9		699				L-2090		699
		609	609	609	609	609		19M9			609
		629	629	MR629	629		39				629

Niro
Stainless Steel

S S W S X S S DD W S

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN	
1.5	0.0591	681XZZ	AX1.5ZZ		68/1.5ZZ	ULZ154		UL15CHH	L-415ZZ	W68/1.5ZZA	
		691XZZ	X1.5ZZ		69/1.5ZZ				R515ZZ	W69/1.5ZZA	
		601XZZS							R-615ZZ	W60/1.5ZZA	
2	0.0787	682ZZS	BX2ZZ		682-2Z	ULZ205	38M2SS	UL20CHH	L-520ZZ	W682ZZA	
		MR52ZZ							L-520ZZW52	WBC2-5ZZA	
		692ZZ	AX2ZZ							R-620ZZ	W692ZZA
		MR62ZZ								R-620ZZY52	
		MR72ZZ								R-720ZZY03	WBC2-7ZZA
2.5	0.0984	602ZZS							R-720ZZ	W602ZZA	
		682XZZS	AX2.5ZZ		68/2.5ZZ	ULZ256	38M2-5SS		L-625ZZ	W68/2.5ZZA	
		692XZZ			69/2.5ZZ				R-725ZZ	W69/2.5ZZA	
3	0.1181	602XZZS							R-825ZZ	W60/2.5ZZA	
		MR63ZZ							L-630ZZ	WA673ZZA	
		683ZZ	AX3ZZ		683-2Z	UL7307	38M3SS	UL30CHH	L-730ZZ	W683ZZA	
4	0.1575	693ZZ			693-2Z				R-830ZZ	W693ZZA	
		MR93ZZ							R-930ZZY04	WBC3-9ZZA	
		623ZZ	623ZZ	623ZZ	623-2Z	RF310	2M3SSY1	EL3RHH	R-1030ZZ	623ZZ	
		633ZZ								633ZZ	
		MR74ZZ							L-740X2ZZ	WA674ZZA	
5	0.1969	MR84ZZ							L-840ZZ	WBC4-8ZZA	
		684ZZ	638/4ZZ		684-2Z	ULZ409	38M455	UL40CHH	L-940ZZ	W684ZZA	
		MR104ZZ	X4ZZ						L-1040ZZ	WBC4-10ZZA	
		694ZZ	AY4ZZ		694-2Z				R-1140ZZ	694ZZ	
		604ZZ	604ZZ		604-2Z				R-1240ZZ	604ZZ	
		624ZZ	624ZZ	624ZZ	624-2Z	RF413	2M4SS	EL4RHH	R-1340ZZ	624ZZ	
6	0.2362	634ZZ	634ZZ	MR634ZZ	634-2Z	RV416	34SS	34RHH	R-1640ZZ	634ZZ	
		MR85ZZ							L-850ZZ	WA675ZZA	
		MR95ZZA							L-950X2ZZ	WBC5-9ZZA	
		MR105ZZ							L-1050ZZ	WBC5-10ZZA	
		685ZZ	638/5ZZ		685-2Z	ULZ511		UL50CHH	L-1150ZZ	W685ZZ	
		695ZZ	AY5ZZ		695-2Z				R-1350ZZ	895ZZ	
		605ZZ			605-2Z				R-1450ZZ	605ZZ	
7	0.2756	625ZZ	625ZZ	625ZZ	625-2Z	RV516	34.5SS	EL5RHH	R-1650ZZ	625ZZ	
		635ZZ	635ZZ	MR635ZZ	635-2Z	RV519	35SS		R-1950ZZ	635ZZ	
		MR106ZZS							L-1060ZZ	WA676ZZA	
		MR126ZZ	X6ZZ						L-1260ZZ	WBC6-12ZZA	
		686ZZ	628/6ZZ		686-2Z	ULZ613		UL60CHH	L-1360ZZ	W686ZZ	
8	0.315	696ZZ	ZY6ZZ		696-2Z				R-1560ZZ	696ZZ	
		606ZZ							R-1760ZZ	606ZZ	
		626ZZ	626ZZ	MR626ZZ	626-2Z	RV619	36SS	EL6RHH	R-1960ZZ	626ZZ	
		MR117ZZS							L-1170ZZ	WA677ZZA	
		MR137ZZS							L-1370ZZ	WBC7-13ZZA	
		687ZZ	AX7ZZ		687-2Z	ULZ714		UL70CH	L-1470ZZ	W687ZZ	
9	0.3543	697ZZ	AY7ZZ		697-2Z					697ZZ	
		607ZZ	607ZZ	607ZZ	607-2Z			EL7RHH	R-1970ZZ	607ZZ	
		627ZZ	627ZZ	MR627ZZ	627-2Z	RV722	37SS		R-2270ZZ	627ZZ	
		MR128ZZS	637/8ZZ						L-1280ZZ	W678ZZA	
		MR148ZZA							L-1480ZZ	WBC8-14ZZA	
8	0.315	688ZZ	X8ZZ			ULZ816			L-1680ZZ	W688ZZ	
		698ZZ	AY8ZZ		698-2Z		19M8SS		R-1980ZZ	698ZZ	
		608ZZ	608ZZ	MR608ZZ	608-2Z	RV822	38SS	EL8RHH	R-2280ZZ	608ZZ	
		628ZZ								628ZZ	
		689ZZ	X9ZZ			ULZ917			L-1790ZZ	W689ZZ	
9	0.3543	699ZZ	AY9ZZ		699-2Z		19M9SS		L-2090ZZ	699ZZ	
		609ZZ	609ZZ	609ZZ						609ZZ	
		629ZZ	629ZZ	MR629ZZ	629-2Z		39SS			629ZZ	
Niro Stainless Steel		S	S	W	S	X	S	S	DD	W	

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
1.016	0.04	R09	RO9	RO308	1016	UL1304		2C	R1-2	R01
1.191	0.0469	RO	X3/64	R0310	1191	UL1505	RO	21/2C	R1-21/2	RO
1.397	0.055	R1	R1	R0412	1397	R1706	R1	3C	R1-3	R1
1.984	0.0781	R1-4	X5/64	R0516	BR5/64	R2508	R1-4	4C	R1-4	R1-4
2.38	0.0937	R133	AX3/32	RO612	2380	UL3008	R133	3332C	R1-3332	R133
		R1-5	X3/32	R620	BR3/32	R3010	R1-5	5C	R1-5	R1-5
3.175	0.125	R144	AX1/8	R0816	3175	UL4008	R144	418C	R1-418	R144
		R2-5	X1/8	R820	BR1/8A	R4010	R2-5	518C	R1-518	R2-5
		R2-6		R824	BR1/8A/6		R2-6	618C	R1-618	R2-6
		R2	R2	R2	BR1/6B	R4012	R2	R2C	R-2	R2
		R2A	R2A	R2A	BR1/8B/083		R2A	R2AC		RA2
3.967	0.1562	R155	X5/32	R1020	3967	UL5010	R155	5532C	RI-5532	R155
4.762	0.1875	R156	AX3/16	R1220	4763A	UL6010	R156	5632C	RI-5632	R156
		R166	X3/16	R1224	4763B	UL6012	R166	6316C	RI-6632	R166
		R3	Y3/16	R3	BR3/16	R6016	R3	R3C	R-3	R3
6.35	0.25	R168	X1/4	R1624	6350A	UL8012	R168	614C	RI-614	R168
		R188	R188	R1632	6350B	UL8016	R188	814C	RI-814	R188
		R4	Y1/4	R4	BR1/4A	R8020	R4	R4C	R-4	R4
		R4A	R4A	R4A	BR1/4A		R4A	R4AR	RI-1214	
7.938	0.3125	R1810		R2032	7938		R1810	8516C	RI-8516	
9.525	0.375	R6	Y3/8	R620	BR3/8		R6	R6R	RI-1438	

Niro
Stainless Steel S S W S X S S DD W

Geschlossene Ausführung (zöllig) / Shielded Type (inch type)

mm	inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
1.191	0.0469	ROZZS	X3/64ZZ	R0310.2Z	1191-2Z	ULZ1505	21/2CHH	RI-21/2ZZ	RAOZZA	
1.397	0.055	R1ZZ	R1ZZ	RO412.2Z	1397-2Z	RF1706	R1S	3CHH	RI-3ZZ	RA1ZZ1
1.984	0.0781	R1-4ZZS	X5-64ZZ	R0516.2Z	BR5/64-2Z	RF2508	R1-4SS	4CHH	R1-4ZZ	RA1-4ZZ1
2.38	0.0937	R133ZZS	AX3/32ZZ	RO612.2Z	2380-2Z	ULZ3006	R133SS	3332CHH	R1-3332ZZ	RA133ZZA
3.175	0.125	R144ZZ	AX1/8ZZ	RO816.2Z	3175-2Z	ULZ4008	R144SS	418CHH	R1-418ZZ	RA144ZZA
		R2-5ZZ	X1/8ZZ	R820.2Z	BR1/8A-2Z	RF4010	R2-5SS	518CHH	R1-518ZZ	RA2-5ZZA
		R2-6ZZS		R824.2Z	BR1/8A/6-2Z		R2-6SS	618CHH	R1-618ZZ	RA2-6ZZA
		R2ZZ	R2ZZ	R2.2Z	BR1/8B-2Z	RF4012	R2SS	R2CHH	R-2ZZ	R2ZZA
		R2AZZ	R2AZZ	R2A.2Z	BR1/8B/083-2Z		R2ASS	R2ACHH	RA2ZZA	
3.967	0.1562	R155ZZS	X5/32ZZ	R1020.2Z	3967-2Z	ULZ5010	R155SS	5532CHH	R1-5532ZZ	RA155ZZA
4.762	0.1875	R156ZZS	AX3/16ZZ	R1220.2Z	4763A-2Z	ULZ6010	R156SS	5632CHH	R1-5632ZZ	RA156ZZA
		R166ZZ	X3/16ZZ	R1224.2Z	4763B-2Z	ULZ6012	R166SS	6316CHH	R1-6632ZZ	R166ZZA
		R3ZZ	Y3/16ZZ	R3.2Z	BR3/16-2Z	RF6016	R3SS	R3CHH	R-3ZZ	RA3ZZ
6.35	0.25	R168ZZS	X1/4ZZ	R1624.2Z	6350A-2Z	ULZ8012	R168SS	614CHH	R1-614ZZ	R168ZZA
		R188ZZ	R188ZZ	R1632.2Z	6350B-2Z	ULZ8016	R188SS	814CHH	R1-814ZZ	RA188ZZA
		R4ZZ	Y1/4ZZ	R4.2Z	BR1/4A-2Z	RF8020	R4SS	R4CHH	R-4ZZ	R4ZZ
		R4AZZ	R4AZZ	R4A.2Z	BR1/4..2Z		R4ASS	R4ARHH	R1-1214ZZ	R4AZZ
7.938	0.3125	R1810ZZS		R2032.2Z	7938-2Z		R1810SS	8516CHH	R1-8516ZZ	
9.525	0.375	R6ZZ	Y3/8ZZ	R6.2Z	BR3/6-2Z		R6SS	R6RHH	R1-1438ZZ	R6ZZ

Niro
Stainless Steel S S W S X S S DD W

Geschlossene Flanschlager (zöllig) / Flanged Shielded Type (inch series)

inch	ZEN	ADR	FAG	GRW	RMB	BARDEN	MPB	NMB	NTN
0.0469	FR0ZZS	FX3/64ZZ	RF0310.2Z	F1191-2Z	ULKZ1505	FR0SS	21/2FCHH	RIF-21/2ZZ	FLRAOZZA
0.055	FR1ZZ	FR1ZZ	RF0412.2Z	F1397-2Z	RKF-1706	FR1SS	3FCHH	RIF-3ZZ	FLRA1ZZA
0.0781	FR1-4ZZS	FX5/64ZZ	RF0516.2Z	R6/64-2Z	RKF2508	FR1-4SS	4FCHH	RIF-4ZZ	FLRA1-4ZZA
0.0937	FR133ZZS	FAX3/32ZZ	RF0612.2Z	F2380-2Z	ULKZ3006	FR133SS	3332FCHH	RIF-3332ZZ	FLRA133ZZA
	FR1-5ZZS	FX3/32ZZ	RF620.2Z	F3/32-2Z	RKF3010	FR1-5SS	5FCHH	RIF-5ZZ	FLRA1-5ZZA
0.125	FR144ZZ	FAX1/8ZZ	RF0816.2Z	F3175-2Z	ULKZ4008	FR144SS	418FCHH	RIF-418ZZ	FLRA144ZZA
	FR2-5ZZ	FX1/8ZZ	RF820.2Z	F1/8A-2Z	RKF4010	FR2-5SS	518FCHH	RIF-518ZZ	FLRA2-5ZZA
	FR2-6ZZS		RF824.2Z	F1/8A/6-2Z		FR2-6SS	618FCHH	RIF-618ZZ	FLRA2-6ZZA
	FR2ZZ	FR2ZZ	RF2.2Z	F1/8B-2Z	RKF4012	FR2SS	R2FCHH	RF-2ZZ	FLR2ZZA
0.1562	RF155ZZS	FX5/32ZZ	RF1020.2Z	F3967-2Z	ULKZ5010	FR155SS	5532FCHH	RIF-5532ZZ	FLRA155ZZA
0.1875	FR156ZZS	FAX3/16ZZ	RF1220.2Z	F4763A-2Z	ULKZ6010	FR156SS	5632FCHH	RIF-5632ZZ	FLRA156ZZA
	FR166ZZ	FX3/16ZZ	RF1224.2Z	F4763B-2Z	ULKZ6012	FR166SS	6316FCHH	RIF-6632Z	FLRA166ZZA
	FR3ZZ	FY3/16ZZ	RF3.2Z	F3/16-2Z	RKF6016	FR3SS	R3FCHH	RF-3ZZ	FLRA3ZZ
0.25	FR168ZZS	FX1/4ZZ	RF1624.2Z	F6350A-2Z	ULKZ8012	FR168SS	614CHH	RIF-614ZZ	FLRA166ZZA
	FR188ZZ	FR188ZZ	RF1632.2Z	F6350B-2Z	ULKZ8016	FR188SS	814FCHH	RIF-814ZZ	FLRA188ZZA
	FR4ZZ	FY1/4ZZ	RF4.2Z	F1/4A-2Z	RKF8020	FR4SS	R4FCHH	RF-4ZZ	FLRAZZ
0.3125	FR1810ZZS		RF2032.2Z	F7938-2Z		FR1810SS	8516FCHH	RIF-8516ZZ	
0.375	FR6ZZ	FY3/8ZZ	RF6.2Z			FR6SS	R6FRHH	RIF-1438ZZ	FLR6ZZ

Geschlossene Flanschlager (metrisch) / Flanged Shielded Type (metric series)

mm	inch	ZEN	ADR	GRW	RMB	BARDEN	MPB	NMB	NTN
1.5	0.591	F691XZZ	FX1.5ZZ	F69/1.5-2Z				RF-515ZZ	FLW69/1.5ZZA
		F601XZZS						RF-615ZZ	FLW60/1.5ZZA
2	0.0787	F682ZZ	FBX2ZZ	F682-2Z	ULKZ205	F682SS	UL20FCHH	LF-520ZZ	FLW682ZZA
		F692ZZ	FAX2ZZ			F692SS		RF-620ZZ	FLW692ZZA
		MF72ZZ						RF-720ZZY03	FLW8C2-7ZZA
		F602ZZS						RF-720ZZ	FLW602ZZA
2.5	0.0984	F682XZZS	FAX2.5ZZ	F68/2.5-2Z	ULKZ256	F68/2.5SS		LF-625ZZ	FLW68/2.5ZZA
		F692XZZ	FX2.5ZZ	F69/2.5-2Z		F69/2.5SS		RF-725ZZ	FLW69/2.5ZZA
		F602XZZS						RF-825ZZ	FLW60/2.5ZZA
3	0.1181	MF63ZZS						FL630ZZ	FLWA67ZZA
		F683ZZ	FAX3ZZ	F683-2Z	ULKZ307	F683SS	UL30FCHH	LF-730ZZ	FLW683ZZA
		F693ZZ	FX3ZZ	F693-2Z	RKF308			RF-830ZZ	FLW693ZZA
		MF93ZZ						RF-930ZZY04	FLWBC3-9ZZA
		F623ZZ	F623ZZ	F623-2Z	RKF310	F623SS		RF-1030ZZ	FL623ZZA
4	0.1575	MF74ZZ						LF-740ZZ	FLWA674ZZA
		MF84ZZ						LF-840ZZ	FLWBC4-8ZZA
		F684ZZ	F683/4ZZ	F684-2Z	ULKZ409	F684SS	UL40FCHH	LF-940ZZ	FLW684ZZA
		MF104ZZ						LF-1040ZZ	FLAWBC4-10ZZA
		F694ZZ		F694-2Z		F694SS		RF-1140ZZ	FL694ZZA
		F604ZZ						RF-1240ZZ	FL604ZZ
		F624ZZ	F624ZZ	F624-2Z		F624SS		RF-1340ZZF	L624ZZ
		F634ZZ		F634-2Z		F634SS		RF-1640ZZ	FL634ZZ
5	0.1969	MF85ZZ						LF-850ZZ	FLWA675ZZA
		MF95ZZ						LF-950ZZ	FLWBC5-9ZZA
		MF105ZZ						LF-1050ZZ	FLAWBC5-10ZZA
		F685ZZ	F638/5ZZ	F685-2Z	ULKZ511	F685SS	UL50FCHH	LF-1150ZZ	FLW685ZZA
		F695ZZ		F695-2Z		F695SS		RF-1350ZZ	FL695ZZ
		F605ZZ		F605-2Z				RF-1450ZZ	FL605ZZ
		F625ZZ		F625-2Z		F625SS		RF-1850ZZ	FL625ZZ
		F635ZZ		F635-2Z		F635SS		RF1950ZZ	FL635ZZ
6	0.2362	MF106ZZ						RF-1650ZZ	FLWA676ZZA
		MF126ZZ						UF-1260ZZ	FLAWBC6-12ZZA
		F686ZZ	F628/6ZZ	F686-2Z	ULKZ613	F686SS	UL60FCHH	LF-1360ZZ	FLW686ZZA
		F696ZZ		F696-2Z		F696SS		RF-1560ZZ	FL696ZZ
		F606ZZ						RF-1760ZZ	FL606ZZ
		F626ZZ		F626-2Z		F626SS			FL626ZZ
7	0.2756	MF117ZZS						LF-1170ZZ	FLWA677ZZA
		MF137ZZS						LF-1370ZZ	FLAWBC7-13ZZA
		F687ZZ	FAX7ZZ	F687-2Z	ULKZ714	F687SS	UL70FCHH	LF-1470ZZ	FLW687ZZA
		F697ZZ		F697-2Z		F697SS			FL697ZZ
		F607ZZ	F607ZZ	F607-2Z		F607SS			FL607ZZ
		F627ZZ		F627-2Z		F627SS			FL627ZZ
8	0.315	MF128ZZ						RF-2270ZZ	FL627ZZ
		MF148ZZ						LF-1280ZZ	FLAW678ZZA
		F688ZZ				F688SS		UF-1480ZZ	FLWBC8-14ZZA
		F698ZZ		F698-2Z		F698SS		UF-1680ZZ	FLW688ZZ
		F608-ZZ	F608ZZ	F608-2Z		F608SS			FL698ZZ
9		F689ZZ				F689SS		RF-2280ZZ	FL608ZZ
		F699ZZ						FL-1790ZZ	FLW689ZZ
									FL699ZZ

Niro

Stainless Steel

S

S

S

X

S

S

DD

W

Fraction	Inch	mm	Fraction	Inch	mm	Fraction	Inch	mm
1/64	0.0156	0.3969		0.2883	7.3228	11/16	0.6875	17.4625
	0.0250	0.6350	19/64	0.2969	7.5406	45/64	0.7031	17.8594
1/32	0.0312	0.7937	5/16	0.3125	7.9375		0.7087	18.0000
	0.0394	1.0000		0.3150	8.0000	23/32	0.7187	18.2562
	0.0400	1.0160	21/64	0.3281	8.3344	47/64	0.7344	18.6532
3/64	0.0469	1.1906	11/32	0.3437	8.7312		0.7435	18.8849
	0.0472	1.2000		0.3543	9.0000		0.7480	19.0000
	0.0550	1.3970	23/64	0.3594	9.1281	3/4	0.7500	19.0500
	0.0591	1.5000	3/8	0.3750	9.5250	49/64	0.7656	19.4469
1/16	0.0625	1.5875	25/64	0.3906	9.2919		0.7717	19.6012
	0.0709	1.8000		0.3937	10.0000	25/32	0.7812	19.8433
5/64	0.0781	1.9844	13/32	0.4062	10.3187		0.7874	20.0000
	0.0787	2.0000		0.4100	10.4140	51/64	0.7969	20.2402
	0.0906	2.3012	27/64	0.4219	10.7156	13/16	0.8125	20.6375
3/32	0.0937	2.3812		0.4250	10.7950		0.8268	21.0000
	0.0984	2.5000		0.4331	11.0000	53/64	0.8281	21.0344
	0.1000	2.5400	7/16	0.4375	11.1125	27/32	0.8437	21.4312
	0.1024	2.6000	29/64	0.4531	11.5094	55/64	0.8594	21.8281
7/64	0.1094	2.7781		0.4600	11.6840		0.8661	22.0000
	0.1100	2.7940	15/32	0.4687	11.9062	7/8	0.8750	22.2250
	0.1102	2.8000		0.4724	12.0000	57/64	0.8906	22.6219
	0.1181	3.0000	31/64	0.4844	12.3031		0.9055	23.0000
1/8	0.1250	3.1750	1/2	0.5000	12.7000	29/32	0.9062	23.0187
	0.1256	3.1902		0.5118	13.0000	59/64	0.9219	23.4156
	0.1378	3.5000	33/64	0.5156	13.0968	15/16	0.9375	23.8125
9/64	0.1406	3.5719	17/32	0.5312	13.4937		0.9449	24.0000
5/32	0.1562	3.9687	35/64	0.5469	13.8906	61/64	0.9531	24.2094
	0.1575	4.0000		0.5512	14.0000	31/32	0.9687	24.6062
11/64	0.1719	4.3656	9/16	0.5625	14.2875		0.9843	25.0000
3/16	0.1875	4.7625	37/64	0.5781	14.6844	63/64	0.9844	25.0031
	0.1892	4.8057		0.5906	15.0000		1.0000	25.4000
	0.1969	5.0000	19/32	0.5937	15.0812		1.0236	26.0000
13/64	0.2031	5.1594	39/64	0.6094	15.4781		1.0415	26.4541
	0.2165	5.4991	5/8	0.6250	15.8750		1.0480	26.6192
7/32	0.2187	5.5562		0.6299	16.0000	1-1/16	1.0625	26.9875
15/64	0.2344	5.9531	41/64	0.6406	16.2719		1.0630	27.0000
	0.2362	6.0000		0.6500	16.5100		1.1025	28.0000
1/4	0.2500	6.3500	21/32	0.6562	16.6687	1-1/8	1.1250	28.5750
17/64	0.2656	6.7469		0.6620	16.8148		1.1417	29.0000
	0.2756	7.0000		0.6693	17.0000		1.1812	30.0000
9/32	0.2812	7.1437	43/64	0.6719	17.0656	1-3/16	1.1875	30.1625
						1-1/4	1.2500	31.7500
						1-1/2	1.5000	38.1000