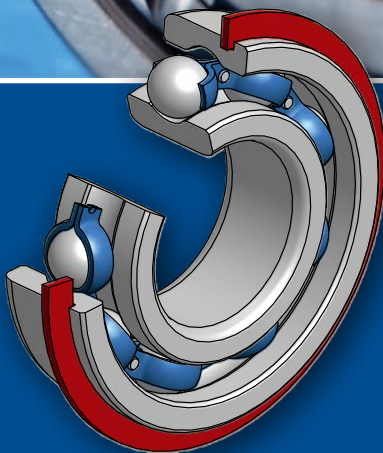


SINGLE ROW DEEP GROOVE BALL BEARINGS



SINGLE ROW DEEP GROOVE BALL BEARINGS

The single row deep groove ball bearings have relatively deep raceways on both rings without a filling slot and they are non-separable. By optimum size of balls and by their conformity to the raceways high load ratings are achieved.

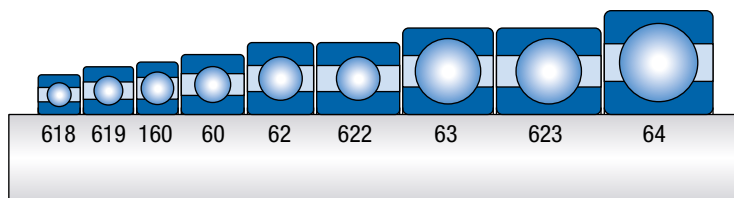
They can carry axial and radial loads in both directions and are suitable even for high rotation speeds. These bearings are manufactured in a broad selection of types and are the most common rolling bearing type.



DESIGN SPECIFICATIONS

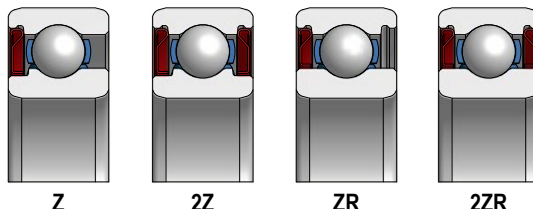
MAIN DIMENSIONS

Main dimensions of single row deep groove ball bearings specified in the dimension tables are in accordance with the international standards ISO 15. Snap ring groove dimensions comply with the international standards ISO 464.



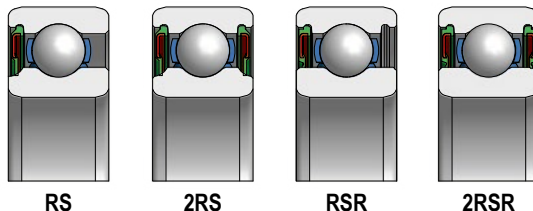
BEARINGS WITH SHIELDS OR SEALS

Single row deep groove ball bearings with sealing on one or on both sides are manufactured with metal shields (Z, -2Z, or ZR, -2ZR) or with seals (RS, -2RS or RSR, -2RSR). The shields create a non-contact sealing. The bearings are manufactured in the original design with shoulders for shields on the inner ring (Z, -2Z) or in the new design with a shield and the grinded outer diameter of the inner ring shoulder (ZR, -2ZR).



The sealing rings made of rubber, vulcanized on metal reinforcing ring, provide an effective friction type sealing. The bearings are manufactured in the design with rounded shoulders on the inner ring (RS, -2RS) or in a new design with a seal and the grinded outer diameter of the inner ring shoulder (RSR, -2RSR). Bearings with seals are suitable for usage within the temperature range from -20°C to 110°C . Bearing deliveries with sealing capacity within 180°C (RS2, -2RS2, RSR2, -2RSR2), or eventually delivery of bearings with other sealing design, should be discussed with the supplier in advance. Shields and seals are inserted in the recess of the outer ring and these are not removable.

Bearings shielded on both sides (-2Z, -2ZR) are filled with a quality grease the properties of which usually ensure the lubrication during the whole bearing life under normal operating conditions. The bearings of this design cannot be relubricated. They can be used within the operating temperature range from -20°C to 110°C . The delivery of bearings with different grease should be discussed with the supplier in advance. Shields and sealing rings are fastened in the grooves of outer ring and are unseparable.



GREASE

For bearings sealed on both sides, the designation of the grease filling different from standard grease is indicated by a symbol combination. The first two letters indicate the operating temperature range (a symbol in accordance with STN 02 4608) and the third identifies the grease name.

TL - Grease for low operating temperatures (from -60°C to 100°C)

TM - Grease for medium operating temperatures (from -35°C to 140°C)

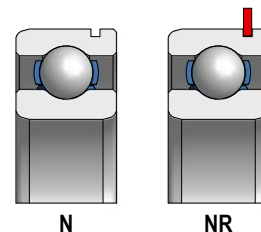
TH - Grease for high operating temperatures (from -30°C to 200°C)

TW - Grease for low and high operating temperatures (from -40°C to 150°C)

Note: The symbols of grease for medium operating temperatures need not to be marked on the bearings.

BEARINGS WITH SNAP RING GROOVE

The single row deep groove ball bearings with a snap ring groove (N) can be easily axially fixed in the housings and without high requirements on the space simplifying the arrangement design. For bearings with a groove in the outer ring, snap rings corresponding to STN 02 4605 are used (commercial designation R and the number indicating the outside diameter D of the corresponding bearing, e. g. R47). Bearings with a snap ring groove and a snap ring are designated by the suffix NR, e. g. 6204NR. Snap rings for the bearings with a snap ring groove are delivered separately. The bearings with a snap ring groove can also be delivered in the modification with shields or seals (ZN, -2ZN or RSN, -2RSN). The delivery of these bearings must be discussed in advance.



TAPERED BORE

For some less demanding arrangements, e. g. in agricultural machines, etc., some sizes of single row deep groove ball bearings of type 62 and 63 with a tapered bore (K), taper 1:12 are manufactured. These bearings are also manufactured in a design with shields on both sides. The bearings are fixed on the cylindrical shaft by means of adapter sleeves of types H2, H3 or directly on the tapered shaft.

CAGE

The single row deep groove ball bearings of the basic design are equipped with a pressed cage made of steel sheet, guided on balls, which is not designated. Bearings can be shipped also with massive steel (mark: F), or with massive brass (mark: M), cage, guidance of which may be on balls or some of the rings. In special cases the bearings are produced with different types of cages: bearings with a solid polyamide cage (TNH, TNGH), with a solid cage of textite (TB). The supply of these bearings should be discussed in advance.

TOLERANCES

Single row deep groove ball bearings are commonly produced in tolerance classes P0 and P6. For special arrangements requiring high precision or for arrangements with a high rotation speed, the bearings in higher tolerance classes P5 and P4 are used. The limit values of deviations in tolerances and the operation of these bearing types are specified in tables 10a to 13b of this catalogue.

RADIAL CLEARANCE

Commonly produced single row deep groove ball bearings have normal radial clearance which is not indicated. In special cases, bearings with radial clearance C2 (smaller than normal clearance) or with the radial clearance C3, C4, C5 (greater than normal clearance) can be produced. The ranges of radial clearances of single row deep groove ball bearings are given in tab. 18 of this catalogue.

VIBRATION LEVEL

Commonly manufactured single row ball bearings have a normal vibration level checked by the manufacturer. For special arrangements bearings with reduced vibration level (C6) are produced.

COMBINATION OF SYMBOLS

The symbols for the tolerance classes, internal bearing clearances and vibration levels are combined with the simultaneous omission of the symbol C for the second and the following special bearing characteristics e. g.:

P6 + C3 = P63	6202 P63
C3 + C6 = C36	6305-2RS C36
P6 + C3 + C6 = P636	6204-2Z P636

STABILISATION FOR OPERATION AT HIGHER TEMPERATURE

For operating temperature higher than 120°C specially stabilized single row deep groove ball bearings with stabilized dimensions for operating temperature from 150°C to 400°C (S0, S1, S2, S3, S4,S5) are produced. Delivery of stabilized bearings should be discussed in advance.

MISALIGNMENT

For single row ball bearings only small mutual misalignment of bearing rings is permissible, therefore alignment deviation of seating surfaces can be very small. Misalignment causes additional load of the bearing and thus its life is shortened. Values of permissible misalignment at normal operating conditions are shown in the table.

Bearing Type	Load	
	low ($F_r < 0,15 \cdot C_{or}$)	heavy ($F_r \geq 0,15 \cdot C_{or}$)
618,619,160,60	2' až 6'	5' až 10'
62,63,64	5' až 10'	8' až 16'

RADIAL EQUIVALENT DYNAMIC LOAD

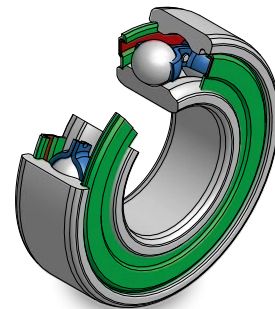
Single row deep groove ball bearings:

$$P_r = F_r$$

$$P_r = 0,56.F_r + Y.F_a$$

$$\text{for } F_a/F_r \leq e$$

$$\text{for } F_a/F_r > e$$



Factors

F_a/C_{or}	e	Y
0.025	0.22	2
0.040	0.24	1.8
0.070	0.27	1.6
0.130	0.31	1.4
0.250	0.37	1.2
0.500	0.44	1

Factor Y values are valid, if the bearings on the journal and in the housing will be fitted in tolerances recommended for small and medium loads and during operation significant reduction of radial clearance due to operating temperature does not come into being (temperatures difference between inner and outer ring max 10°C).

RADIAL EQUIVALENT STATIC LOAD

Single row deep groove ball bearings:

$$P_{or} = 0,6.F_r + 0,5.F_a$$

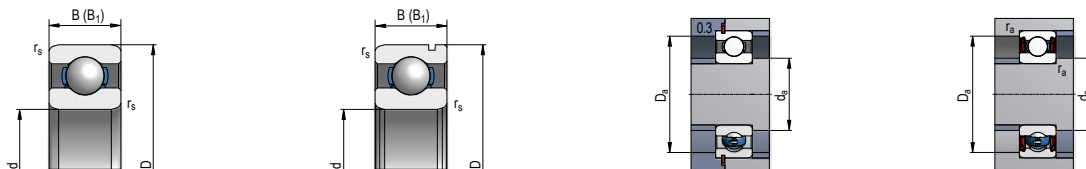
$$\text{for } (P_{or} \geq F_r)$$

DESIGNATION

The designation of basic designs and common modifications of the bearings are specified in the dimension tables. Modification of the basic design is designated with additional symbols according to STN 02 4608. The meaning of the most used symbols for single row deep groove ball bearings is in the table.

Symbol	Example of designation	Meaning
RS	6009RS	Seal on one side
RSR	6205RSR	Seal on one side adhering to the grinded outer diameter of the inner ring shoulder
-2RSR	6212-2RSR	Seal on both sides adhering to the grinded outer diameter of the inner ring shoulder
Z	6206Z	Metal shield on one side
ZN	6305ZN	Metal shield on one side and snap ring groove in outer ring opposite to metal shield
-2Z	6308-2Z	Metal shield on both sides
-2ZR	6005-2ZR	Metal shields on both sides adhering to the grinded outer diameter of the inner ring shoulder
K	6204-2ZK	Tapered bore, taper 1:12
N	6407N	Snap ring groove in outer ring
NR	6307NR	Snap ring groove in outer ring and inserted snap ring
TNH	6207TNH	Plastic cage guided on balls
TB	6210TB	Machined cage made of textite guided on the inner ring
P6	6205 P6	Higher tolerance class than standard
P6E	6204-2Z P6E	Higher tolerance class for rotating electric machines
P5	6203 P5	Higher tolerance class than P6
P4	6004 P4	Higher tolerance class than P5
C2	6213 C2	Radial clearance less than normal
C3	6305-2ZR C3	Radial clearance greater than normal
C4	6007-2RS C4	Radial clearance greater than C3
C5	6302-2ZR C5	Radial clearance greater than C4
C6	6315 C6	Reduced vibration level
R...	6211 R10-20	Radial clearance in non-standardized range
SO	6205 SO	Stabilisation for operating temperature to 150°C
S1	6304 S1	Stabilisation for operating temperature to 200°C
S2	6302 C5S2	Stabilisation for operating temperature to 250°C
S3	6310 C5S3	Stabilisation for operating temperature to 300°C
S4	6306 C5S4	Stabilisation for operating temperature to 350°C
S5	6309 C5S5	Stabilisation for operating temperature to 400°C
TP	6205-2Z P6E TP	Bearings produced according to special technical conditions agreed with the customer

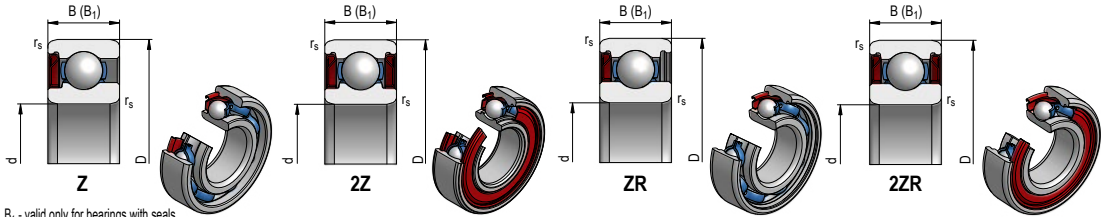
SINGLE ROW DEEP GROOVE BALL BEARINGS



B₁ - valid only for bearings with seals

Single Row Deep Groove Ball Bearings – Single Row Deep Groove Ball Bearings with Shield and Seal – Single Row Deep Groove Ball Bearings with Snap Ring Groove										Bearing Designation					Abutment and Fillet Dimensions mm			Weight	
Dimensions mm					Basic Load Rating kN		Limiting Speed for Lubrication min ⁻¹			Standard	Bearing Designation					d _a max	D _a max	r _a max	kg
d	D	B	B ₁	r _{fs} min	C	C ₀	Z, ZR	RS, RSR	2RS, 2RSR		N	d _a max	D _a max	r _a max	kg				
3	8	4	4	0,15	0,55	0,17	35 000	21 000	42 000	693	-	693-2ZR	-	-	-	4	7	0,15	0,001
4	13	5	5	0,2	1,29	0,48	35 000	21 000	42 000	624	-	2ZR	-	-	-	6,5	11,2	0,2	0,003
5	16	5	5	0,3	1,43	0,68	35 000	21 000	42 000	625	-	625-2ZR	-	625-2RSR	-	7	14	0,3	0,005
6	19	6	6	0,3	2,13	1,02	35 000	21 000	42 000	626	-	626-2ZR	-	626-2RSR	-	8,2	17	0,3	0,008
7	19	6	6	0,3	2,20	1,06	35 000	21 000	42 000	607	607Z	607-2ZR	-	607-2RSR	-	9	17,2	0,3	0,007
7	22	7	7	0,3	3,26	1,35	35 000	21 000	42 000	627	-	627-2ZR	-	627-2RSR	-	9,2	19	0,3	0,012
8	22	7	7	0,3	3,30	1,37	35 000	21 000	42 000	608	-	608-2ZR	-	608-2RSR	-	10	20	0,3	0,012
9	24	7	7	0,3	2,80	1,65	35 000	21 000	42 000	609	-	609-2ZR	-	609-2RSR	-	11	22	0,3	0,016
9	26	8	8	0,3	3,60	1,96	35 000	21 000	42 000	629	-	629-2ZR	-	629-2RSR	-	11	24	0,3	0,018
10	19	5	5	0,3	1,71	0,84	32 000	21 000	38 000	61800	-	61800-2Z	-	61800-2RS	-	12	17	0,3	0,005
10	22	6	6	0,3	2,70	1,27	34 000	22 000	40 000	61900	-	61900-2Z	-	61900-2RS	-	12	20	0,3	0,009
10	26	8	8	0,3	4,58	1,97	28 000	19 000	33 000	6000	6000ZR	6000-2ZR	6000RSR	6000-2RSR	-	12	24	0,3	0,018
10	26	12	12	0,3	4,57	1,97	27 000	19 000	32 000	63000	-	-	-	63000-2RSR	-	12	24	0,3	0,025
10	30	14	14	0,3	5,00	2,30	16 000	14 200	17 000	62200	-	62200-2ZR	-	62200-2RR	-	14,2	25,6	0,3	0,040
10	30	9	9	0,6	5,10	2,38	25 000	17 000	30 000	6200	6200ZR	6200-2ZR	6200RSR	6200-2RSR	-	14	26	0,6	0,032
10	35	11	11	0,6	7,55	3,40	22 000	15 000	27 000	6300	6300ZR	6300-2ZR	6300RSR	6300-2RSR	-	14	31	6	0,052
12	21	5	5	0,3	1,92	1,04	30 000	20 000	38 000	61801	-	61801-2Z	-	61801-2RS	-	14	19	0,3	0,006
12	24	6	6	0,3	2,89	1,46	30 000	20 000	36 000	61901	-	61901-2Z	-	61901-2RS	-	14	22	0,6	0,011
12	28	7	7	0,3	4,50	2,37	25 000	-	30 000	16001	-	-	-	-	-	14	26	0,3	0,020
12	28	8	8	0,3	5,10	2,37	25 000	17 000	30 000	6001	6001ZR	6001-2ZR	6001RSR	6001-2RSR	-	14	26	0,3	0,020
12	28	12	12	0,6	5,09	2,36	25 000	17 000	30 000	63001	-	-	-	63001-2RSR	-	14	26	0,3	0,029
12	32	10	10	0,6	6,80	3,05	22 000	15 000	27 000	6201	6201ZR	6201-2ZR	6201RSR	6201-2RSR	-	16	28	0,6	0,034
12	32	14	14	0,6	6,90	3,10	22 000	15 000	27 000	62201	-	62201-2ZR	-	62201-2RSR	-	16	28	0,6	0,044
12	37	12	12	1	9,71	4,19	20 000	13 000	24 000	6301	6301ZR	6301-2ZR	6301RSR	6301-2RSR	-	17	32	1	0,059
12	37	17	17	1	9,71	4,19	-	13 000	24 000	62301	-	-	-	62301-2RSR	-	17,6	31,4	1	0,070
15	24	5	5	0,3	2,07	1,26	28 000	19 000	34 000	61802	-	61802-2Z	-	61802-2RS	-	17	22	3	0,007
15	28	7	7	0,3	4,33	2,25	24 000	17 000	30 000	61902	-	61902-2Z	-	61902-2RS	-	17	26	0,3	0,015
15	32	8	8	0,3	5,21	2,82	21 000	-	25 000	16002	-	-	-	-	-	17	30	0,3	0,026
15	32	9	9	0,3	5,59	2,84	21 000	14 000	25 000	6002	6002ZR	6002-2ZR	6002RSR	6002-2RSR	-	17	30	0,3	0,029
15	35	14	14	0,6	7,70	3,70	20 000	13 000	24 000	62202	-	62202-2ZR	-	62202-2RSR	-	16	28	0,6	0,050
15	35	11	11	0,6	7,62	3,70	20 000	13 000	24 000	6202	6202ZR	6202-2ZR	6202RSR	6202-2RSR	-	19	31	0,6	0,042
15	42	13	13	1	11,33	5,35	18 000	12 000	21 000	6302	6302ZR	6302-2ZR	6302RSR	6302-2RSR	-	20	36	1	0,078
15	42	17	17	1	11,33	5,35	-	12 000	21 000	62302	-	-	-	62302-2RSR	-	20,6	36,4	1	0,110
17	26	5	5	0,3	2,14	1,37	24 000	17 000	30 000	61803	-	61803-2Z	-	61803-2RS	-	19	24	0,3	0,008
17	30	7	7	0,3	4,60	2,55	22 000	15 000	28 000	61903	-	61903-2Z	-	61903-2RS	-	19	28	0,3	0,018
17	35	8	8	0,3	5,73	3,22	20 000	-	24 000	16003	-	-	-	-	-	19	33	0,3	0,032
17	35	10	10	0,3	6,00	3,25	20 000	13 000	24 000	6003	6003ZR	6003-2ZR	6003RSR	6003-2RSR	-	19	33	0,3	0,038
17	40	12	12	0,6	9,55	4,76	18 000	12 000	21 000	6203	6203ZR	6203-2ZR	6203RSR	6203-2RSR	6203N	21	36	0,6	0,061
17	40	16	16	0,6	9,50	4,70	18 000	12 000	21 000	62203	-	62203-2ZR	-	62203-2RSR	-	21	36	0,6	0,080
17	47	14	14	1	13,53	6,53	16 000	10 600	19 000	6303	6303ZR	6303-2ZR	6303RSR	6303-2RSR	6303N	23	41	1	0,110
17	47	19	19	1,5	13,52	6,53	16 000	11 000	19 000	62303	-	-	-	62303-2RSR	-	23	41,4	1	0,150
17	62	17	17	1,1	22,69	10,79	12 600	-	15 000	6403	-	-	-	-	-	23,5	55,5	1	0,267
20	32	7	7	0,3	3,48	2,23	19 000	12 000	22 000	61804	-	61804-2Z	-	61804-2RS	-	22	30	0,3	0,018
20	37	9	9	0,3	6,38	3,68	18 000	12 000	22 000	61904	-	61904-2Z	-	61904-2RS	-	22	35	0,3	0,038
20	42	8	8	0,3	6,90	4,45	17 000	-	20 000	16004	-	-	-	-	-	22	40	0,3	0,049
20	42	12	12	0,6	9,38	5,03	17 000	11 000	20 000	6004	6004ZR	6004-2ZR	6004RSR	6004-2RSR	-	24	38	0,6	0,067
20	47	14	14	1	12,79	6,58	15 000	10 000	18 000	6204	6204ZR	6204-2ZR	6204RSR	6204-2RSR	6204N	25	42	1	0,095
20	47	18	18	1	12,80	6,56	15 000	10 000	18 000	62204	-	62204-2ZR	-	62204-2RSR	-	25	43	1	0,130

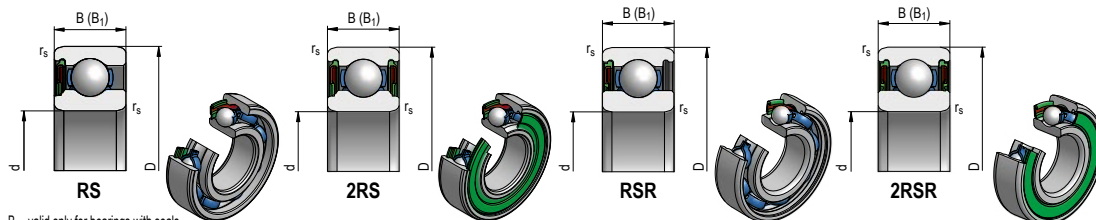
SINGLE ROW DEEP GROOVE BALL BEARINGS



B₁ - valid only for bearings with seals

Single Row Deep Groove Ball Bearings – Single Row Deep Groove Ball Bearings with Shield and Seal – Single Row Deep Groove Ball Bearings with Snap Ring Groove																			
Dimensions mm					Basic Load Rating kN		Limiting Speed for Lubrication min ⁻¹			Bearing Designation					Abutment and Fillet Dimensions mm			Weight kg	
d	D	B	B ₁	r _a min	C	C ₀	ZZ	ZR	RS, RSR	Standard	Z, ZR	ZZ, ZZR	RS, RSR	2RS, 2RSR	N	d _a max	D _a max	r _a max	kg
20	52	15	15	1,1	15,94	7,88	14 000	9 400	17 000	6304	6304ZR	6304-ZZR	6304RSR	6304-2RSR	6304N	26	45	1	0,138
20	72	19	19	1,1	29,45	14,25	11 000	-	13 000	6404	-	-	-	-	6404N	27	33	1	0,388
20	52	21	21	1,5	15,94	7,88	15 000	10 000	18 000	62304	-	-	-	62304-2RSR	-	26	45	1	0,200
25	37	7	7	0,3	3,68	2,63	15 000	11 000	19 000	61805	-	61805-ZZ	-	61805-2RS	-	27	35	0,3	0,022
25	42	9	9	0,3	6,66	4,18	14 000	11 000	18 000	61905	-	61905-ZZ	-	61905-2RS	-	27	40	0,3	0,044
25	47	8	8	0,3	6,95	4,60	14 000	-	17 000	16005	-	-	-	-	-	27	43	0,3	0,054
25	47	12	12	0,6	10,06	5,85	14 000	9 400	17 000	6005	6005ZR	6005-ZZR	6005RSR	6005-2RSR	-	28	43	0,6	0,077
25	52	15	15	1	14,01	7,83	12 600	8 400	15 000	6205	6205ZR	6205-ZZR	6205RSR	6205-2RSR	6205N	30	47	1	0,120
25	52	18	18	1	14,10	7,94	12 600	8 400	15 000	62205	-	62205-ZZR	-	62205-2RSR	-	30	48	1	0,150
25	62	17	17	1,1	22,41	11,51	11 000	7 500	13 000	6305	6305ZR	6305-ZZR	6305RSR	6305-2RSR	6305N	31	55	1	0,220
25	80	21	21	1,5	37,22	18,76	9 400	-	11 000	6405	-	-	-	-	6405N	34	70	1,5	0,510
25	62	24	24	1,1	22,38	11,49	14 000	9 000	17 000	62305	-	-	-	62305-2RSR	-	31	55	1	0,320
30	42	7	7	0,3	4,00	3,15	13 000	8 500	17 000	61806	-	61806-ZZ	-	61806-2RS	-	32	70	0,3	0,026
30	47	9	9	0,3	7,24	5,01	12 000	10 500	16 000	61906	-	61906-ZZ	-	61906-2RS	-	32	45	0,3	0,050
30	55	9	9	0,3	11,25	7,36	12 000	-	14 000	16006	-	-	-	-	-	32	53	0,3	0,081
30	55	13	13	1	13,24	8,27	12 000	7 900	14 000	6006	6006ZR	6006-ZZR	6006RSR	6006-2RSR	6006N	34	50	1	0,111
30	62	16	16	1	19,45	11,26	11 000	7 500	13 000	6206	6206ZR	6206-ZZR	6206RSR	6206-2RSR	6206N	35	57	1	0,192
30	62	20	20	1	19,60	11,20	11 000	7 500	13 000	62206	-	62206-ZZR	-	62206-2RSR	-	35	58	1	0,240
30	72	19	19	1,1	28,50	15,08	10 000	6 700	12 000	6306	6306ZR	6306-ZZR	6306RSR	6306-2RSR	6306N	36	65	1	0,330
30	90	23	23	1,5	47,33	24,50	8 400	-	10 000	6406	-	-	-	-	6406N	39	80	1,5	0,650
30	72	27	27	1,1	26,94	15,08	13 000	8 000	16 000	62306	-	-	-	62306-2RSR	-	36	65	1	0,480
35	47	7	7	0,3	4,28	3,60	11 000	8 200	15 000	61807	-	61807-ZZ	-	61807-2RS	-	37	45	0,3	0,030
35	55	10	10	0,6	10,40	7,17	10 000	6 800	14 000	61907	-	61907-ZZ	-	61907-2RS	-	39	51	0,6	0,080
35	62	9	9	0,3	12,26	8,80	10 600	-	12 600	16007	-	-	-	-	-	37	60	0,3	0,110
35	62	14	14	1	15,98	10,28	10 600	7 100	12 600	6007	6007ZR	6007-ZZR	6007RSR	6007-2RSR	6007N	39,5	57	1	0,149
35	62	20	20	1	15,98	10,28	-	7 100	12 600	63007	-	-	-	63007-2RSR	-	39,6	57,4	1	0,200
35	72	17	17	1,1	25,74	15,30	9 400	6 300	11 000	6207	6207ZR	6207-ZZR	6207RSR	6207-2RSR	6207N	42	65	1	0,270
35	80	21	21	1,5	33,29	19,09	8 400	5 600	10 000	6307	6307ZR	6307-ZZR	6307RSR	6307-2RSR	6307N	42	71	1,5	0,444
35	100	25	25	1,5	56,86	30,11	7 500	-	8 900	6407	-	-	-	-	6407N	44	90	1,5	0,850
35	72	23	23	1,1	25,21	15,30	10 000	6 500	12 000	62207	-	-	-	62207-2RSR	-	44	65	1	0,370
35	80	31	31	1,5	33,28	19,09	12 000	7 000	15 000	62307	-	-	-	62307-2RSR	-	42	71	1,5	0,660
40	52	7	7	0,3	4,53	4,05	9 000	7 000	13 000	61808	-	61808-ZZ	-	61808-2RS	-	42	50	0,3	0,033
40	62	12	12	0,6	12,16	8,90	11 000	6 900	13 000	61908	-	61908-ZZ	-	61908-2RS	-	44	58	0,6	0,099
40	68	9	9	0,3	12,62	9,69	9 400	-	11 000	16008	-	-	-	-	-	42	62	0,3	0,123
40	68	15	15	1	16,78	11,54	9 400	6 300	11 000	6008	6008ZR	6008-ZZR	6008RSR	6008-2RSR	6008N	44	63	1	0,180
40	68	21	21	1	16,78	11,53	9 400	6 300	11 000	63008	-	-	-	63008-2RSR	-	44	63	1	0,260
40	80	18	18	1,1	29,52	18,14	8 400	5 600	10 000	6208	6208ZR	6208-ZZR	6208RSR	6208-2RSR	6208N	47	73	1	0,354
40	90	23	23	1,5	40,72	23,94	7 900	5 300	9 400	6308	6308ZR	6308-ZZR	6308RSR	6308-2RSR	6308N	47	81	1,5	0,610
40	110	27	27	2	65,16	37,35	6 700	-	7 900	6408	-	-	-	-	6408N	50	97	2	1,120
40	80	23	23	1,1	29,52	18,14	9 000	5 500	11 000	62208	-	-	-	62208-2RSR	-	50	73	1	0,440
40	90	33	33	1,5	40,71	23,94	11 000	6 000	14 000	62308	-	-	-	62308-2RSR	-	47	81	1,5	0,890
45	58	7	7	0,3	4,63	4,34	7 000	6 400	11 000	61809	-	61809-ZZ	-	61809-2RS	-	47	56	0,3	0,040
45	68	12	12	0,6	13,48	10,14	9 800	6 100	12 000	61909	-	61909-ZZ	-	61909-2RS	-	49	64	0,6	0,130
45	75	10	10	0,6	15,64	12,19	8 400	-	10 000	16009	-	-	-	-	-	49	71	1	0,160
45	75	16	16	1	20,05	14,54	8 400	5 600	10 000	6009	6009ZR	6009-ZZR	6009RSR	6009-2RSR	6009N	49	70	1	0,230
45	85	19	19	1,1	31,69	20,60	7 900	5 300	9 400	6209	6209ZR	6209-ZZR	6209RSR	6209-2RSR	6209N	52	78	1	0,390
45	100	25	25	1,5	50,45	30,02	7 100	4 700	8 400	6309	6309ZR	6309-ZZR	6309RSR	6309-2RSR	6309N	52	91	1,5	0,800
45	120	29	29	2	76,85	44,90	6 000	-	7 100	6409	-	-	-	-	6409N	55	107	2	1,420

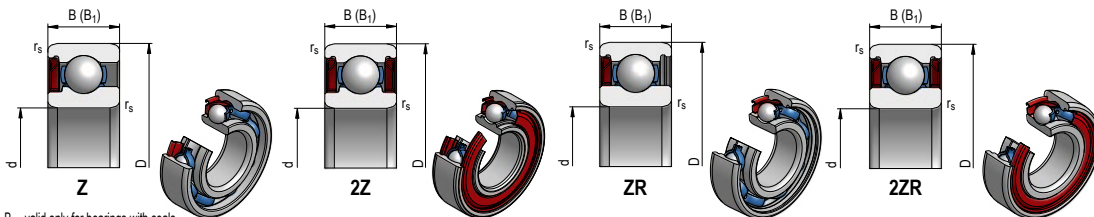
SINGLE ROW DEEP GROOVE BALL BEARINGS



B₁ - valid only for bearings with seals

Single Row Deep Groove Ball Bearings – Single Row Deep Groove Ball Bearings with Shield and Seal – Single Row Deep Groove Ball Bearings with Snap Ring Groove										Bearing Designation					Abutment and Fillet Dimensions mm			Weight	
Dimensions mm				Basic Load Rating kN		Limiting Speed for Lubrication min ⁻¹				Bearing Designation					Abutment and Fillet Dimensions mm			Weight	
d	D	B	B ₁	r _s min	C	CO	Z, ZR	2Z, 2ZR	RS, RSR	Standard	Z, ZR	2Z, 2ZR	RS, RSR	2RS, 2RSR	N	d _a max	D _a max	r _a max	kg
45	85	23	23	2	31,68	20,60	8 000	4 500	10 000	62209	-	-	-	62209-2RSR	-	55	78	1	0,480
45	100	36	36	1,5	52,76	31,67	10 000	5 000	13 000	62309	-	-	-	62309-2RSR	-	52	91	1,5	1,150
50	65	7	7	0,3	5,50	5,26	9 600	5 800	11 000	61810	-	61810-2Z	-	61810-2RS	-	52	63	0,3	0,051
50	72	12	12	0,6	13,92	10,99	8 900	5 500	11 000	61910	-	61910-2Z	-	61910-2RS	-	54	68	0,6	0,160
50	80	10	10	0,6	16,09	13,15	7 900	-	9 400	16010	-	-	-	-	-	54	76	0,6	0,170
50	80	16	16	1	20,90	15,68	7 900	5 300	9 400	6010	6010ZR	6010-2ZR	6010RSR	6010-2RSR	6010N	54	75	1	0,250
50	90	20	20	1,1	35,07	23,18	7 100	4 700	8 400	6210	6210ZR	6210-2ZR	6210RSR	6210-2RSR	6210N	57	83	1	0,440
50	110	27	27	2	61,81	37,85	6 300	4 200	7 500	6310	6310ZR	6310-2ZR	6310RSR	6310-2RSR	6310N	60	100	2	1,020
50	130	31	31	2,1	91,59	54,34	5 600	-	6 700	6410	-	-	-	-	6410N	63	116	2	1,740
50	90	23	23	1,1	35,07	23,17	7 000	3 500	9 000	62210	-	-	-	62210-2RSR	-	60	83	1	0,520
50	110	40	40	2	61,81	37,85	9 000	4 000	14 000	62310	-	-	-	62310-2RSR	-	60	99	2	1,550
55	72	9	9	0,3	8,80	8,09	8 700	5 500	10 000	61811	-	61811-2Z	-	61811-2RS	-	57	70	0,3	0,084
55	80	13	13	1	14,82	12,69	8 200	5 100	9 600	61911	-	61911-2Z	-	61911-2RS	-	60	75	0,6	0,190
55	90	11	11	0,6	19,43	16,25	7 100	-	8 400	16011	-	-	-	-	-	59	86	0,6	0,257
55	90	18	18	1,1	26,79	20,07	7 100	4 700	8 400	6011	6011ZR	6011-2ZR	6011RSR	6011-2RSR	6011N	60	84	1	0,360
55	100	21	21	1,5	43,38	29,22	6 700	4 500	7 900	6211	6211ZR	6211-2ZR	6211RSR	6211-2RSR	6211N	62	91	1,5	0,590
55	120	29	29	2	71,48	44,58	5 600	3 800	6 700	6311	6311ZR	6311-2ZR	6311RSR	6311-2RSR	6311N	65	110	2	1,290
55	140	33	33	2,1	100,23	62,02	5 300	-	6 300	6411	-	-	-	-	6411N	68	126	2	2,290
55	100	25	25	1,5	43,38	29,21	6 000	2 500	8 000	62211	-	-	-	62211-2RSR	-	67	91	1,5	0,700
60	78	10	10	0,3	9,14	8,76	8 000	4 800	9 400	61812	-	61812-2Z	-	61812-2RS	-	62	76	0,3	0,100
60	85	13	13	1	15,17	13,49	7 600	4 800	8 900	61912	-	61912-2Z	-	61912-2RS	-	65	80	1	0,200
60	95	11	11	0,6	20,00	16,53	6 700	-	7 900	16012	-	-	-	-	-	64	91	0,3	0,275
60	95	18	18	1,1	29,30	22,14	6 700	4 500	7 900	6012	6012ZR	6012-2ZR	6012RSR	6012-2RSR	6012N	65	88	1	0,390
60	110	22	22	1,5	47,76	32,93	6 000	4 000	7 100	6212	6212ZR	6212-2ZR	6212RSR	6212-2RSR	6212N	67	101	1,5	0,760
60	130	31	31	2,1	81,75	51,85	5 300	3 500	6 300	6312	6312ZR	6312-2ZR	6312RSR	6312-2RSR	6312N	72	118	2	1,680
60	150	35	35	2,1	109,11	70,06	4 700	-	5 600	6412	-	-	-	-	6412N	73	136	2	2,670
60	110	28	28	1,5	47,75	32,92	5 000	1 500	7 000	62212	-	-	-	62212-2RSR	-	73	101	1,5	0,970
65	85	10	10	0,6	9,43	9,42	7 400	4 700	8 700	61813	-	61813-Z	61813-RS	-	-	69	81	0,6	0,120
65	85	10	10	0,6	12,93	12,12	7 400	4 700	8 700	61813E	-	-	-	-	-	69	81	0,6	0,120
65	90	13	13	1	17,40	15,98	7 000	4 600	8 200	61913	-	61913-2Z	-	61913-2RS	-	70	85	1	0,220
65	100	11	11	0,6	20,46	18,64	6 300	-	7 500	16013	-	-	-	-	-	69	96	0,6	0,290
65	100	18	18	1,1	32,06	24,89	6 300	4 200	7 500	6013	6013ZR	6013-2ZR	6013RSR	6013-2RSR	6013N	70	93	1	0,410
65	120	23	23	1,5	57,21	40,00	5 300	3 500	6 300	6213	6213ZR	6213-2ZR	6213RSR	6213-2RSR	6213N	72	111	1,5	0,975
65	140	33	33	2,1	93,87	60,44	5 000	3 300	6 000	6313	6313ZR	6313-2ZR	6313RSR	6313-2RSR	6313N	76	128	2	2,000
65	160	37	37	2,1	118,14	78,57	4 500	-	5 300	6413	-	-	-	-	6413N	78	146	2	3,200
70	90	10	10	0,6	9,75	10,09	6 900	4 500	8 100	61814	-	61814-2Z	-	61814-2RS	-	74	86	0,6	0,140
70	100	16	16	1	23,70	21,15	6 500	4 300	7 700	61914	-	61914-2Z	-	61914-2RS	-	75	95	1	0,350
70	110	13	13	0,6	27,89	25,02	5 600	-	6 700	16014	-	-	-	-	-	74	106	0,6	0,430
70	110	20	20	1,1	38,59	30,43	5 600	3 800	6 700	6 014	6014ZR	6014-2ZR	6014RSR	6014-2RSR	6014N	75	103	1	0,599
70	125	24	24	1,5	60,87	44,84	5 300	3 500	6 300	6214	6214ZR	6214-2ZR	6214RSR	6214-2RSR	6214N	77	116	1,5	1,030
70	150	35	35	2,1	104,13	68,04	4 700	3 200	5 600	6314	6314ZR	6314-2ZR	6314RSR	6314-2RSR	6314N	81	138	2	2,520
70	180	42	42	3	139,19	99,21	4 000	-	4 700	6414	-	-	-	-	6414N	85	164	2,5	4,720
75	95	10	10	0,6	10,03	10,77	6 400	4 300	7 600	61815	-	61815-2Z	-	61815-2RS	-	79	91	0,6	0,150
75	105	16	16	1	27,89	25,02	6 100	4 100	7 200	61915	-	61915-2Z	-	61915-2RS	-	80	100	1	0,370
75	115	13	13	0,6	28,66	26,77	5 300	-	6 300	16015	-	-	-	-	-	79	111	0,6	0,454
75	115	20	20	1,1	40,25	33,09	5 300	3 500	6 300	6015	6015ZR	6015-2ZR	6015RSR	6015-2RSR	6015N	80	108	1	0,600
75	130	25	25	1,5	66,18	49,27	5 000	3 300	6 000	6215	6215ZR	6215-2ZR	6215RSR	6215-2RSR	6215N	82	122	1,5	1,090
75	160	37	37	2,1	113,42	76,97	4 200	2 800	5 000	6315	6315ZR	6315-2ZR	6315RSR	6315-2RSR	6315N	86	148	2	2,910

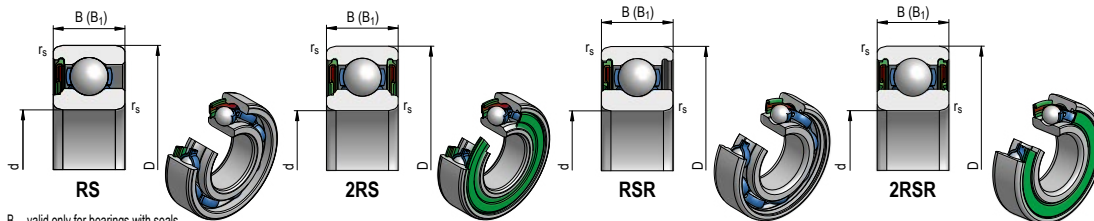
SINGLE ROW DEEP GROOVE BALL BEARINGS



B₁ - valid only for bearings with seals

Single Row Deep Groove Ball Bearings – Single Row Deep Groove Ball Bearings with Shield and Seal – Single Row Deep Groove Ball Bearings with Snap Ring Groove																			
Dimensions mm					Basic Load Rating kN		Limiting Speed for Lubrication min ⁻¹			Bearing Designation					Abutment and Fillet Dimensions mm			Weight kg	
d	D	B	B ₁	r _a min	C	C ₀	Z, ZR	RS, RSR	Standard	Z, ZR	2Z, 2ZR	RS, RSR	2RS, 2RSR	N	d _a max	D _a max	r _a max	kg	
75	190	45	45	3	153,23	113,74	3 800	-	4 500	6415	-	-	-	6415N	90	174	2,5	5,520	
80	100	10	10	0,6	12,67	13,28	6 000	4 600	7 100	61816	-	61816-2Z	-	61816-2RS	-	84	96	0,6	0,153
80	110	16	16	1	28,00	25,28	5 700	3 800	6 700	61916	-	61916-2Z	-	61916-2RS	-	85	105	1	0,400
80	125	14	14	0,6	33,13	31,39	5 000	-	6 000	16916	-	-	-	-	84	121	0,6	0,590	
80	125	22	22	1,1	47,64	39,68	5 000	3 300	6 000	6016	6016ZR	6016-2ZR	6016RSR	6016-2RSR	6016N	85	118	1	0,822
80	140	26	26	2	82,87	62,34	4 700	3 200	5 600	6216	6216ZR	6216-2ZR	6216RSR	6216-2RSR	6216N	90	130	2	1,360
80	170	39	39	2,1	122,94	86,50	4 000	2 700	4 700	6316	6316ZR	6316-2ZR	6316RSR	6316-2RSR	6316N	91	158	2	3,560
80	200	48	48	3	163,22	124,55	3 500	-	4 200	6416	-	-	-	6416N	95	184	2,5	6,720	
85	110	13	13	1	19,24	19,80	5 700	3 400	6 700	61817	-	61817-2Z	-	61817-2RS	-	90	105	1	0,270
85	120	18	18	1,1	34,04	29,91	5 400	3 400	6 300	61917	-	61917-2Z	-	61917-2RS	-	91,5	113,5	1	0,480
85	130	14	14	0,6	34,00	33,26	4 700	-	5 600	16017	-	-	-	-	89	126	0,6	0,630	
85	130	22	22	1,1	50,83	42,79	4 700	3 200	5 600	6017	6017ZR	6017-2ZR	6017RSR	6017-2RSR	-	90	123	1	0,865
85	150	28	28	2	83,27	63,77	4 200	2 800	5 000	6217	6217ZR	6217-2ZR	6217RSR	6217-2RSR	6217N	95	140	2	1,710
85	180	41	41	3	132,67	96,58	3 800	2 500	4 500	6317	6317ZR	6317-2ZR	6317RSR	6317-2RSR	6317N	98	166	2,5	3,930
85	210	52	52	4	173,35	135,82	3 300	-	4 000	6417	-	-	-	-	105	190	3	7,840	
90	115	13	13	1	19,60	20,20	5 400	3 400	6 300	61818	-	61818-2Z	-	61818-2RS	-	95	110	1	0,280
90	125	18	18	1,1	35,00	30,00	5 100	3 300	6 000	61918	-	61918-2Z	-	61918-2RS	-	96,5	118,5	1	0,590
90	140	16	16	1	39,43	37,15	4 500	-	5 300	16018	-	-	-	-	95	135	1	0,855	
90	140	24	24	1,5	58,16	49,60	4 500	3 000	5 300	6018	6018ZR	6018-2ZR	6018RSR	6018-2RSR	-	96	132	1,5	1,110
90	160	30	30	2	95,98	71,45	4 000	2 700	4 700	6218	6218ZR	6218-2ZR	6218RSR	6218-2RSR	6218N	100	150	2	2,060
90	190	43	43	3	144,05	108,49	3 500	-	4 200	6318	-	-	-	6318N	103	176	2,5	4,630	
90	190	43	43	3	144,05	108,49	-	-	4 200	6318M	-	-	-	-	103	176	2,5	5,530	
90	225	54	54	4	192,48	157,63	3 200	-	3 800	6418	-	-	-	-	110	205	3	11,400	
95	120	13	13	1	19,80	21,27	5 000	3 200	5 900	61819	-	61819-2Z	-	61819-2RS	-	100	115	1	0,300
95	130	18	18	1,1	36,30	34,46	4 800	2 900	5 700	61919	-	61919-2Z	-	61919-2RS	-	101,5	123,5	1	0,610
95	145	16	16	1	42,73	41,87	4 200	-	5 000	16019	-	-	-	-	100	140	1	0,866	
95	145	24	24	1,5	60,70	51,40	4 200	2 800	5 000	6019	6019ZR	6019-2ZR	6019RSR	6019-2RSR	-	102	137	1,5	1,160
95	170	32	32	2,1	110,28	82,81	3 800	-	4 500	6219	-	-	-	-	107	158	2	2,500	
95	200	45	45	3	156,66	121,98	3 300	-	4 000	6319	-	-	-	-	109	186	2,5	5,340	
100	125	13	13	1	20,20	23,00	4 800	3 200	5 600	61820	-	61820-2Z	-	61820-2RS	-	105	120	1	0,310
100	140	20	20	1,1	37,20	36,62	4 500	3 100	5 300	61920	-	61920-2Z	-	61920-2RS	-	106,5	133,5	1	0,810
100	150	16	16	1	43,92	44,30	4 200	-	5 000	16020	-	-	-	-	105	145	1	0,910	
100	150	24	24	1,5	64,46	56,13	4 200	2 800	5 000	6020	6020ZR	6020-2ZR	6020RSR	6020-2RSR	-	106	142	1,5	1,180
100	180	34	34	2,1	122,14	92,72	3 500	-	4 200	6220	-	-	-	-	112	169	2	2,950	
100	180	34	34	2,1	122,14	92,72	-	-	4 200	6220M	-	-	-	-	112	169	2	3,300	
100	215	47	47	3	172,98	140,39	3 500	-	4 200	6320	-	-	-	-	113	201	2,5	6,660	
100	215	47	47	3	172,98	140,39	-	-	4 200	6320M	-	-	-	-	113	201	2,5	8,690	
105	130	13	13	1	25,00	27,00	4 600	3 100	5 400	61821	-	61821-2Z	-	61821-2RS	-	110	125	1	0,310
105	145	20	20	1,1	39,64	38,23	4 300	2 900	5 100	61921	-	61921-2Z	-	61921-2RS	-	111,5	155	1	0,900
105	160	18	18	1	51,80	50,60	4 000	-	4 800	16021	-	-	-	-	110	155	1	1,180	
105	160	26	26	2	71,92	63,32	4 000	2 700	4 700	6021	6021ZR	6021-2ZR	6021RSR	6021-2RSR	-	113	151	2	1,540
105	190	36	36	2,1	132,99	104,45	3 300	-	4 000	6221	-	-	-	-	117	178	2	3,610	
105	225	49	49	3	183,69	153,08	3 000	-	3 500	6321	-	-	-	-	119	211	2,5	7,560	
110	140	16	16	1	30,77	32,38	4 300	2 900	5 100	61822	-	61822-2Z	-	61822-2RS	-	115	135	1	0,600
110	150	20	20	1,1	41,15	42,56	4 100	2 800	4 800	61922	-	61922-2Z	-	61922-2RS	-	116,5	143,5	1	1,000
110	170	19	19	1	57,44	56,70	3 800	-	4 500	16022	-	-	-	-	115	165	1	1,440	
110	170	28	28	2	81,97	72,75	3 800	2 500	4 500	6022	6022ZR	6022-2ZR	6022RSR	6022-2RSR	-	118	161	2	1,900
110	200	38	38	2,1	144,00	117,00	3 200	-	3 800	6222	-	-	-	-	122	188	2	4,160	

SINGLE ROW DEEP GROOVE BALL BEARINGS



B₁ - valid only for bearings with seals

Single Row Deep Groove Ball Bearings – Single Row Deep Groove Ball Bearings with Shield and Seal – Single Row Deep Groove Ball Bearings with Snap Ring Groove										Bearing Designation					Abutment and Fillet Dimensions mm			Weight	
Dimensions mm					Basic Load Rating kN		Limiting Speed for Lubrication min ⁻¹			Bearing Designation					Abutment and Fillet Dimensions mm			Weight	
d	D	B	B ₁	r _{fs} min	C	C ₀	ZZ, ZR	RS, RSR	Standard	Z, ZR	ZZ, ZZR	RS, RSR	2RS, 2RSR	N	d _a max	D _a max	r _a max	kg	
110	240	50	50	3	204,96	178,31	2 800	-	3 300	6322	-	-	-	-	124	226	2,5	8,970	
120	150	16	16	1	32,01	35,08	4 000	2 800	4 700	61824	-	61824-ZZ	-	61824-2RS	-	125	145	1	0,650
120	165	22	22	1,1	48,65	50,51	3 600	2 400	4 400	61924	-	61924-ZZ	-	61924-2RS	-	126,5	158,5	1	1,160
120	180	19	19	1	60,98	63,80	3 300	-	4 000	16024	-	-	-	-	125	175	1	1,560	
120	180	28	28	2	88,14	79,72	3 300	2 200	4 000	6024	6024ZR	6024-ZZR	6024RSR	6024-2RSR	-	128	171	2	2,000
120	215	40	40	2,1	155,32	130,99	3 000	-	3 500	6224	-	-	-	-	132	203	2	5,150	
120	260	55	55	3	227,59	207,40	2 500	-	3 000	6324	-	-	-	-	134	246	2,5	11,500	
130	165	18	18	1,1	32,99	37,72	3 700	2 400	4 300	61826	-	61826-ZZ	-	61826-2RS	-	136,5	158,5	1	0,930
130	180	24	24	1,5	49,28	54,24	3 500	2 200	4 100	61926	-	61926-ZZ	-	61926-2RS	-	137	172	1	1,650
130	200	22	22	1,1	79,75	79,16	3 200	-	3 800	16026	-	-	-	-	138	172	1,5	2,260	
130	200	33	33	2	105,08	96,82	3 200	2 100	3 800	6026	6026ZR	6026-ZZR	6026RSR	6026-2RSR	-	138	191	2	3,160
130	200	33	33	2	105,08	96,82	-	-	3 800	6026M	-	-	-	-	138	191	2	3,180	
130	230	40	40	3	165,09	147,59	2 800	-	3 300	6226	-	-	-	-	144	216	2,5	5,980	
130	280	58	58	4	250,87	238,67	2 400	-	2 800	6326	-	-	-	-	146	263	3	14,000	
140	175	18	18	1,1	34,09	40,42	3 400	2 200	4 000	61828	-	61828-ZZ	-	61828-2RS	-	146,5	168,5	1	0,830
140	190	24	24	1,5	49,97	56,37	3 200	2 100	3 800	61928	-	61928-ZZ	-	61928-2RS	-	148	182	1,5	1,030
140	210	22	22	1,1	82,05	85,02	3 000	-	3 500	16028	-	-	-	-	146,5	203,5	1	2,500	
140	210	33	33	2	116,33	108,50	3 000	-	3 500	6028	-	-	-	-	148	200	2	3,270	
140	250	42	42	3	179,14	166,91	2 500	-	3 000	6228	-	-	-	-	154	236	2,5	7,390	
140	300	62	62	4	251,00	246,00	2 200	-	2 700	6328	-	-	-	-	156	284	3	18,300	
140	300	62	62	4	252,74	246,24	-	-	2 700	6328M	-	-	-	-	156	284	3	21,000	
150	190	20	20	1,1	36,00	42,00	3 000	2 000	3 600	61830	-	61830-ZZ	-	61830-2RS	-	156,5	183,5	1	1,150
150	210	28	28	2	88,40	93,00	2 800	2 000	3 400	61930	-	61930-ZZ	-	61930-2RS	-	159	201	1	3,040
150	225	24	24	1,1	91,86	98,54	2 700	-	3 200	16030	-	-	-	-	156,5	218,5	1	3,150	
150	225	35	35	2,1	131,71	124,55	2 700	-	3 200	6030	-	-	-	-	159	213	2	3,930	
150	270	45	45	3	202,63	198,23	2 200	-	2 700	6230	-	-	-	-	164	256	2,5	9,540	
150	270	45	45	3	202,63	198,23	-	-	2 700	6230M	-	-	-	-	164	256	2,5	11,500	
150	320	65	65	4	276,66	280,29	2 000	-	2 500	6330	-	-	-	-	166	304	3	21,100	
160	200	20	20	1,1	45,22	55,10	2 800	2 000	3 400	61832	-	61832-ZZ	-	61832-2RS	-	166,5	193,5	1	1,450
160	200	20	20	1,1	49,60	59,05	-	-	3 400	61832M	-	-	-	-	166,5	193,5	1	1,370	
160	220	28	28	2	90,30	96,00	2 600	1 900	3 200	61932	-	61932-ZZ	-	61932-2RS	-	169	211	2	3,250
160	240	25	25	1,5	99,40	107,00	2 400	-	3 000	16032	-	-	-	-	168	232	1,5	3,600	
160	240	38	38	2,1	143,42	137,81	2 500	-	3 000	6032	-	-	-	-	171	229	2	4,790	
160	290	48	48	3	215,34	217,83	2 100	-	2 500	6232	-	-	-	-	173	277	2,5	15,000	
170	215	22	22	1,1	60,00	70,50	2 600	1 900	3 200	61834	-	61834-ZZ	-	61834-2RS	-	176,5	208,5	1	1,900
170	230	28	28	2	95,20	97,00	2 400	1 800	3 000	61934	-	61934-ZZ	-	61934-2RS	-	179	221	2	3,400
170	260	28	28	1,5	119,00	129,00	2 200	-	2 800	16034	-	-	-	-	178	252	1,5	5,000	
170	260	42	42	2,1	160,76	162,45	2 200	-	2 700	6034	-	-	-	-	179	248	2	6,680	
170	310	52	52	4	242,27	256,31	2 000	-	2 400	6234	-	-	-	-	181	249	2	16,500	
170	360	72	72	4	335,00	378,00	1 500	-	1 900	6334	-	-	-	-	186	294	3	31,400	
180	225	22	22	1,1	60,50	73,00	2 400	1 800	3 000	61836	-	61836-ZZ	-	61836-2RS	-	186,5	218,5	1	2,000
180	250	33	33	2	110,00	119,00	2 200	1 700	2 800	61936	-	61936-ZZ	-	61936-2RS	-	189	241	2	2,010
180	280	31	31	2	138,00	146,00	2 000	-	2 600	16036	-	-	-	-	189	271	2	5,120	
180	280	46	46	2,1	179,96	190,00	2 100	-	2 500	6036	-	-	-	-	191	269	2	8,590	
180	320	52	52	4	255,91	277,31	1 900	-	2 200	6236	-	-	-	-	196	304	3	15,200	
190	240	24	24	1,5	65,00	85,00	2 200	1 700	2 800	61838	-	61838-ZZ	-	61838-2RS	-	198	232	1,5	2,600
190	260	33	33	2	113,15	127,30	2 200	1 700	2 800	61938	-	61938-ZZ	-	61938-2RS	-	199	251	2	4,110
190	290	31	31	2	150,00	166,00	2 000	-	2 600	16038	-	-	-	-	199	281	2	7,900	