



Track rollers

NIKO®

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The internal design of Niko Track rollers is the same as in single row or double row angular contact ball bearings. The units can carry axial loads in both directions and, due to the thickness of the outer ring, large radial loads.

The standard products are produced from high quality bearing steel, with a hardness of 58 to 62 HRC. Some types are also available in stainless steel (440C) with hardness > 58 HRC.

The track rollers contained in this catalogue are produced with standard tolerances (ISO 492) and standard clearance (CN).

The track rollers are produced in two distinct families.

Cylindrical or crowned outer ring and profiled outer ring.

Track rollers with cylindrical or crowned outer ring

These track rollers are available in single and double row design.

They are available with straight cylindrical OD or crowned profile OD. The crowned OD is used to reduce the edge stresses caused by possible misalignment errors. The cylindrical OD can provide increased support due to the longer contact profile.

These products are used typically on flat surfaces.

Some of the most common applications are:

- transfer rolls
- idler rollers
- Support rollers
- Straightening rolls

Types

Track rollers LR 2..NPP, LR 2..RRU

These single row ball track rollers are available in two different versions.

- **LR2.. NPP:** cylindrical OD, with contact seals protected by a metal shield.

- **LR2..RRU:** crowned OD with contact seals protected by a metal shield, inner ring with increased width to allow additional lubricant storage.

Track rollers series **LR 2..** are supplied grease filled. The lithium soap grease, according to DIN 51825 K3N-30.

Track rollers LR 52-53..NPPU, LR 52-53..KDD

These are double rows angular contact ball track rollers. Due to their internal design, they can carry axial loads of large magnitude. They are available in two versions:

- **LR52-53..NPPU:** crowned OD, contact seals protected by a metal shield.

- **LR52-53.. KDD:** cylindrical OD, with metal shields.

Track rollers series **LR 52..** are supplied grease filled. The lithium soap grease, according to DIN 51825 K3N-30.

TRACK ROLLERS WITH PROFILED OUTER RING

The track rollers with profiled outer ring are basically double rows angular contact ball bearings with a reinforced and profiled outer ring. The outer ring profile allows the units to operate on round shafts or other type of profiled raceways. The outer profile can have three different designs;

- **Track rollers with Gothic arch groove - type R**
- **Track rollers with "V" shaped groove - type RV**
- **Track rollers with "W" profile - type RM**

Type RV and RW can be supplied with the pertinent mounting hardware.

The largest portion of these product are used as linear guides.

Types

Track rollers R, mounting bolts and studs RC/RE

The track rollers series R can be used on round shafts with diameter from 4 mm to 50 mm.

The contact between track roller gothic arch groove profile and shaft is on two points. This allows the units to carry loads in both axial and radial direction. The track rollers are available with either shields **ZZ** or contact seals **2RS**.

The units are supplied with lifetime grease lubrication (DIN 51825 K3N-30).

The sizes with an outside diameter 52 mm or greater have a lubrication hole in the inner ring.

To prevent mixing of greases with different characteristics, please insure to perform the lubrication of the units with lubricants that have the same characteristics as the grease used at the factory.

Mounting bolts are available in both eccentric **RE** and concentric **RC** versions.

The eccentric bolts **RE** and **RE..A1** allow the adjustment of the operating clearance.

Bolts of series **RE..A1** and **RC..A1** have facilities that enable re lubrication of the track rollers.

The mounting bolts of series **RC** hare supplied with the pertinent washer, while the one of series RE have both washer and nut.

The units **RC..A1** and **RE..A1** also incorporate the grease fitting and its relative cover plug.

Track rollers RV

The track rollers **RV** have a groove machined in the outer ring. The groove is "V" shaped with an included angle of 120 degrees.

These units are predominantly used on shafts with diameters from 7 to 20 MM. The contact between track roller and shafts is on two points.

In special cases, the units can run on profiled ways.

The units are supplied with non contact shields and with lifetime lubrication.

Track rollers with "W" profile, type RM

The track rollers series **RM** have grooves machined in the outer ring of the unit with an included angle of 90 degree. They have been engineered to run on profiled steel elements that have identical shape. They can run on either the internal or the external surfaces of the outer ring.

They are available with either non-contacting shields **ZZ** or contact seals **2RS**. Both versions are supplied with lifetime grease lubrication.

Track rollers with integral stud

These track rollers are supplied with the pertinent eccentric or concentric stud. They are available with cylindrical OD or a profiled outer ring. All three designs (Gothic arch, **"V"** shape or **"W"** shape) are available.

LOAD RATINGS AND LIFE CALCULATION

If the track rollers operate on a flat surface/raceway, the outer ring deforms (see **fig.1**)

When compared with a bearing mounted in a suitable housing, track rollers have the following characteristics:

- Modified load distribution

This is accounted for by using the load factors C_w and C_{ow} when calculating the life.

- Alternating bending stress on the outer ring

This is taken into account by the load coefficients F_{rperm} and F_{roperm} (see dimension tables). The stresses must not exceed the allowable limits.

Load ratings and life calculation

The dynamic load rating of the track roller is determined by the fatigue limit of the material. The life of the track roller is defined as the period of use before the appearance of fatigue. The ability of a track roller to carry dynamic loads is statistically derived.

Life calculation

The formula to calculate the nominal life is as follows:

$$L = \left(\frac{C_w}{P} \right)^3$$

$$L_h = \frac{833}{H \cdot n_{osz}} \left(\frac{C_w}{P} \right)^3$$

$$L_h = \frac{1666}{v_m} \left(\frac{C_w}{P} \right)^3$$

L = nominal life in 10^5 m reached by 90% of a statistically significant number of apparently identical bearing operating under the same loading condition before the onset of metal fatigue.

L_h [h] = nominal life in hours

C_w [N] = Dynamic load rating. Is the load that would yield a nominal life of 10^5 m.

P [N] = equivalent dynamic load

H [m] = stroke

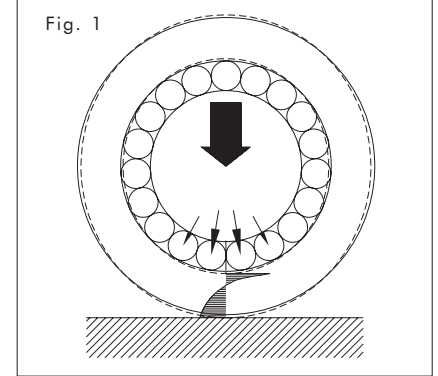
n_{osz} [min⁻¹] = frequency of operation

V_m [m/min] = mean operating velocity

Radial dynamic limit load F_{rperm}

When selecting the product it is necessary to insure that no loading condition will exceed the allowable load.

Fig. 1



Static load rating

The static load rating indicates the elastic limit of the material. Exceeding the limit will impair the proper functioning of the unit as well as the accuracy and the noise behavior.

Static safety factor

The static safety factor S_o allows the calculation of the allowable static load that can be applied to the track roller.

$$S_o = \frac{C_{ow}}{P_{omax}}$$

S_o = static safety factor

C_{ow} [N] = Static load rating. It is defined as the load that causes a permanent deformation equal to 1/10.000 of the rolling element diameter, at the most stressed point.

P_o [N] = equivalent static load

To guarantee the highest accuracy and the lowest noise the static safety factor should be always $S_o \geq 4$.

Permissible static radial load, $F_{or perm}$

When selecting the product, it must be verified that no operating load will exceed the published limits.

FRICTION

Friction moment

The friction moment depends upon load, speed, bearing type and lubrication method as well as lubricant type.

The accurate assessment of the actual friction moment is quite difficult, due to the multiple parameters.

A quick evaluation can be done using the formula:

$$M_r = f \cdot F_r \cdot \frac{d_m}{2}$$

M_r [Nmm] = friction moment

f = coefficient of friction

d_m [mm] = bearing pitch diameter $(d+D)/2$

F_r [N] = radial load

Track roller type	f
Single row design	0.0015 ÷ 0.002
Double row design	0.002 ÷ 0.003

Rolling friction

The friction of a track roller operating on a raceway is calculated as follows:

$$F_a = \frac{2 \cdot (f_r \cdot Fr + Mr)}{D}$$

F_a [N] = rolling friction

f_r = coefficient of friction at the tire/raceway interface for hardened and steel raceways = 0,05

D [mm] = outside diameter of track roller.

Fr [N] = radial load

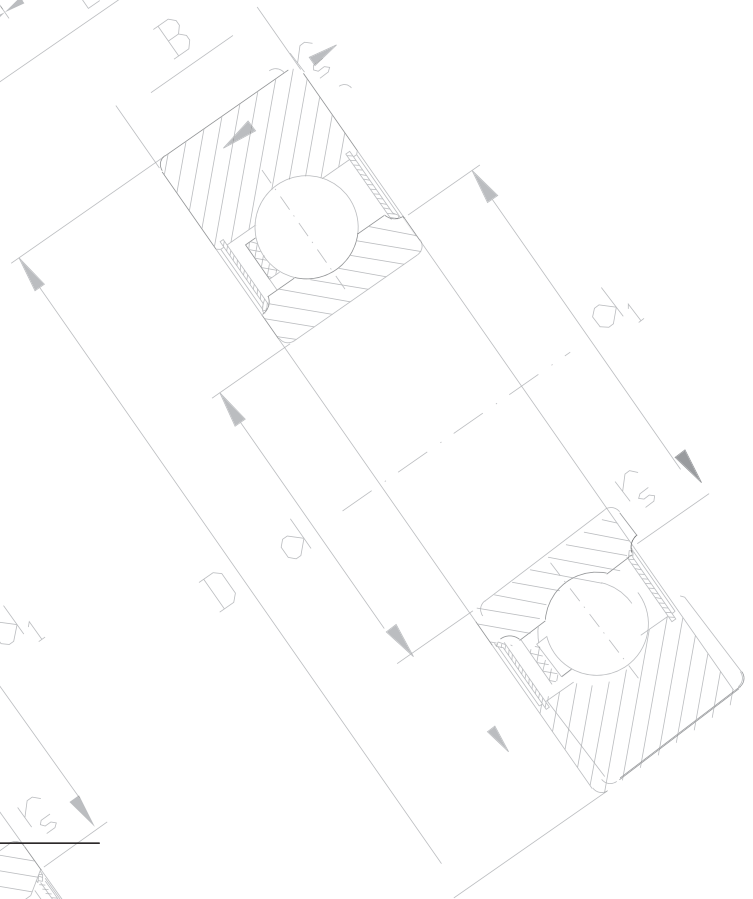
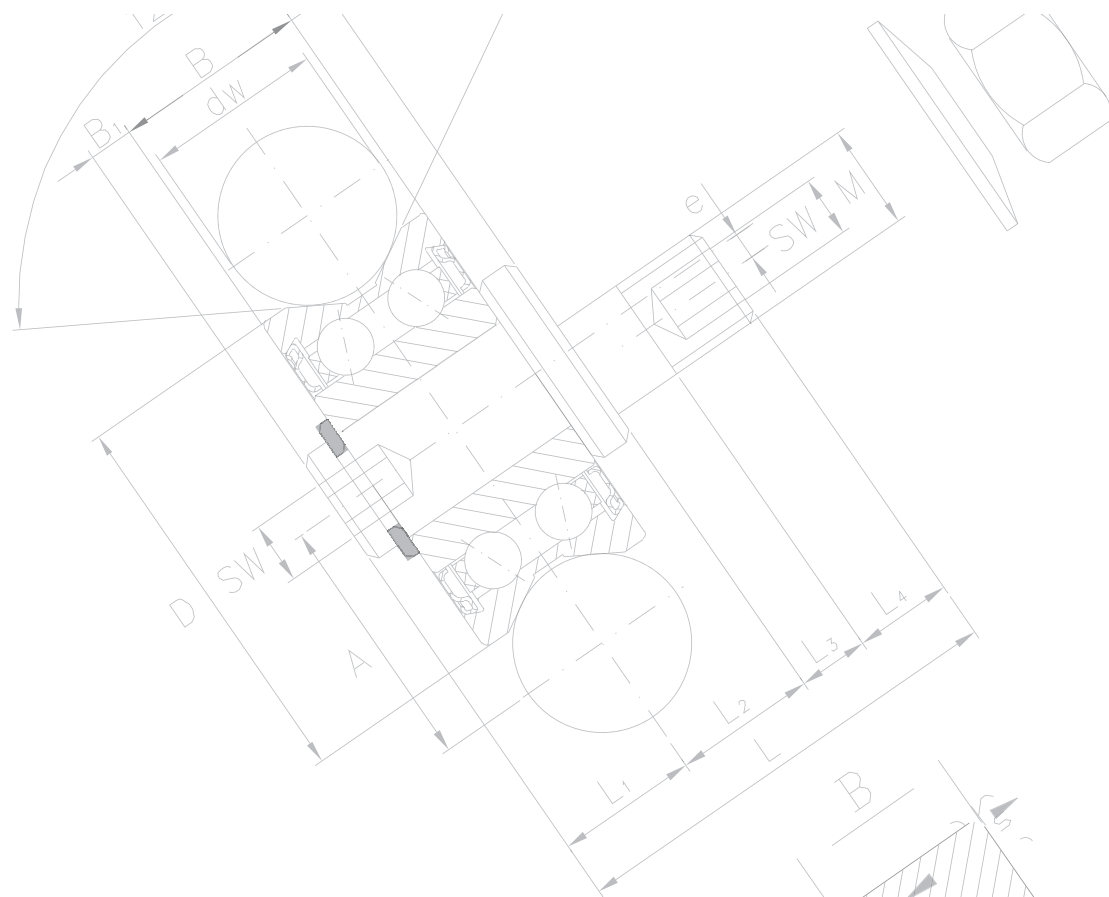
Mr [Nmm] = friction moment

OPERATING TEMPERATURE

The maximum operating temperature for the track rollers in this catalogue is **120 deg. C**.

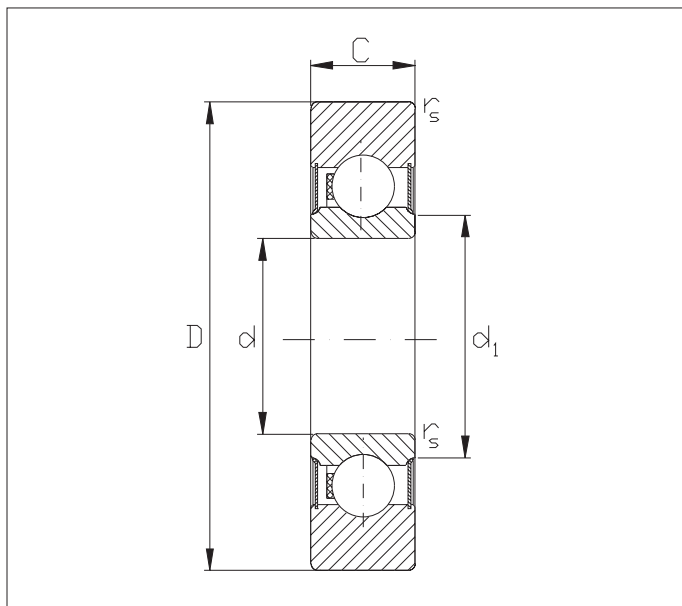
Higher operating temperatures may lead to material structural changes that could lead to reduced hardness and subsequent reduction of the load ratings and nominal life as well as unacceptable dimensional changes.

Dimension Tables

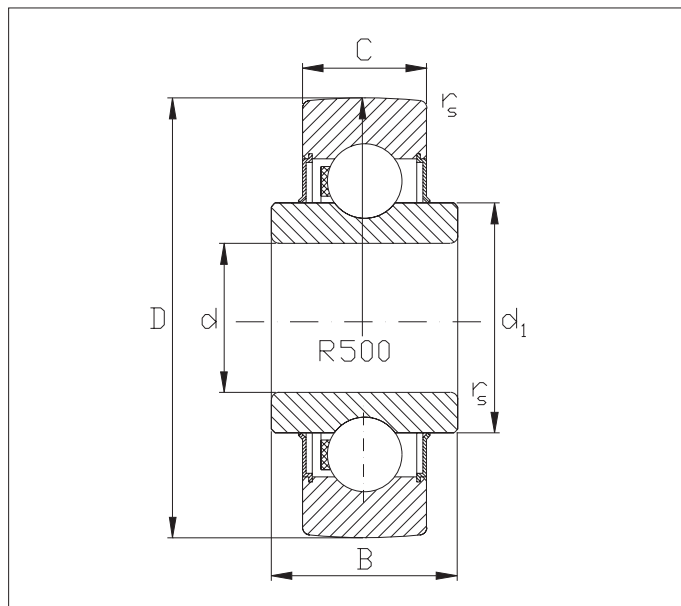


Single row of balls track rollers
with straight and crowned **OD**

Series **LR..NPP**
LR..RRU



LR..NPP

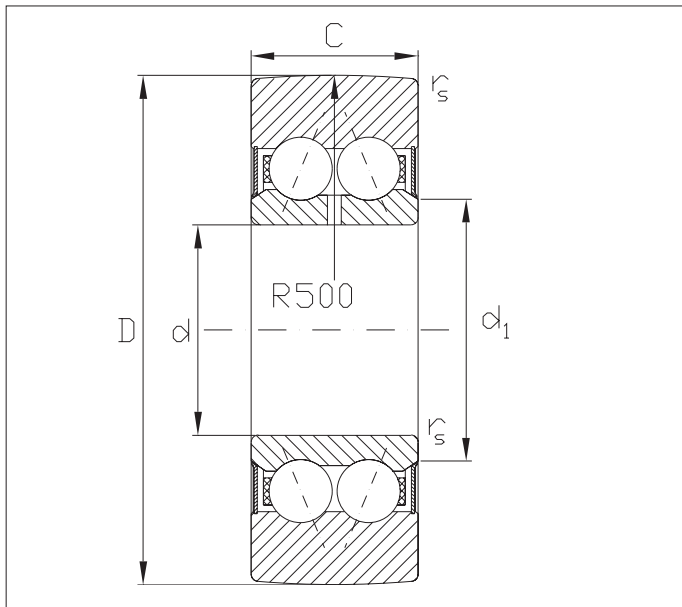


LR..RRU

Designation	Weight (g)	Dimensions						Load ratings			
		d	D	C	r _s min	d ₁	B	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
LR 200 NPP	50	10	32	9	0,6	15,4	-	4.200	2.050	4.100	4.100
LR 201 NPP	50	12	35	10	0,6	17,1	-	5.500	2.600	4.300	5.200
LR 202 NPP	70	15	40	11	0,6	20	-	6.700	3.150	6.300	6.300
LR 203 NPP	110	17	47	12	0,6	22,5	-	9.100	4.200	8.400	8.400
LR 204 NPP	150	20	52	14	1	26,5	-	11.800	5.400	10.200	10.700
LR 205 NPP	230	25	62	15	1	30,3	-	14.900	6.800	13.500	13.500
LR 206 NPP	330	30	72	16	1	37,4	-	20.800	9.200	18.300	18.300
LR 207 NPP	400	35	80	17	1,1	42,4	-	26.100	11.400	18.600	22.700
LR 209 NPP	450	45	90	19	1,1	53,2	-	30.300	13.100	12.700	21.700
LR 201 RRU	70	12	35	10	0,6	18,5	15	5.500	3.000	4.300	5.200
LR 202 RRU	80	15	40	11	0,6	21,5	14,4	6.700	3.500	6.300	6.300

Double rows of balls track rollers
with crowned **OD**

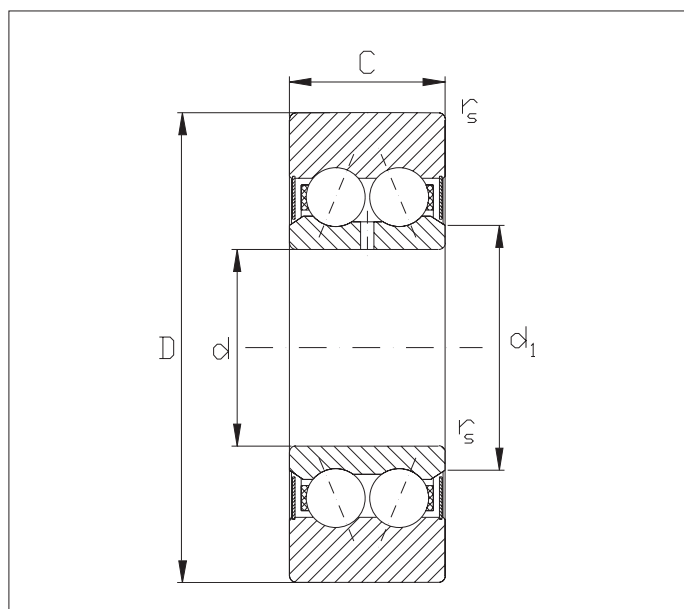
Series **LR52..NPPU**
LR53..NPPU



LR52..NPPU; LR53..NPPU

Designation	Weight (g)	Dimensions (mm)					Load ratings			
		d	D	C	r _s min	d ₁	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
LR 5200 NPPU	70	10	32	14	0,6	15,4	6.500	3.900	7.400	7.700
LR 5201 NPPU	80	12	35	15,9	0,6	17,1	8.500	4.900	6.400	9.700
LR 5202 NPPU	110	15	40	15,9	0,6	20	10.100	5.900	10.100	11.800
LR 5203 NPPU	170	17	47	17,5	0,6	22,5	13.700	7.800	15.200	15.600
LR 5204 NPPU	230	20	52	20,6	1	26,5	17.700	10.000	13.900	20.000
LR 5205 NPPU	340	25	62	20,6	1	30,3	22.000	12.400	23.800	24.700
LR 5206 NPPU	510	30	72	23,8	1	37,4	30.700	20.400	28.100	50.800
LR 5207 NPPU	660	35	80	27	1,1	42,4	39.400	21.300	27.100	42.600
LR 5208 NPPU	750	40	85	30,2	1,1	48,4	45.500	24.300	19.800	34.200
LR 5303 NPPU	210	17	52	22,2	1	23,5	19.300	10.600	14.800	21.100
LR 5304 NPPU	340	20	62	22,2	1,1	29	25.100	13.800	25.700	27.600
LR 5305 NPPU	500	25	72	25,4	1,1	34,4	34.300	18.600	32.800	37.100
LR 5306 NPPU	670	30	80	30,2	1,1	41,4	47.200	25.200	41.400	50.400
LR 5307 NPPU	970	35	90	34,9	1,5	47,7	59.800	31.400	37.600	62.700
LR 5308 NPPU	1200	40	100	36,5	1,5	52,4	78.000	39.900	66.500	79.800

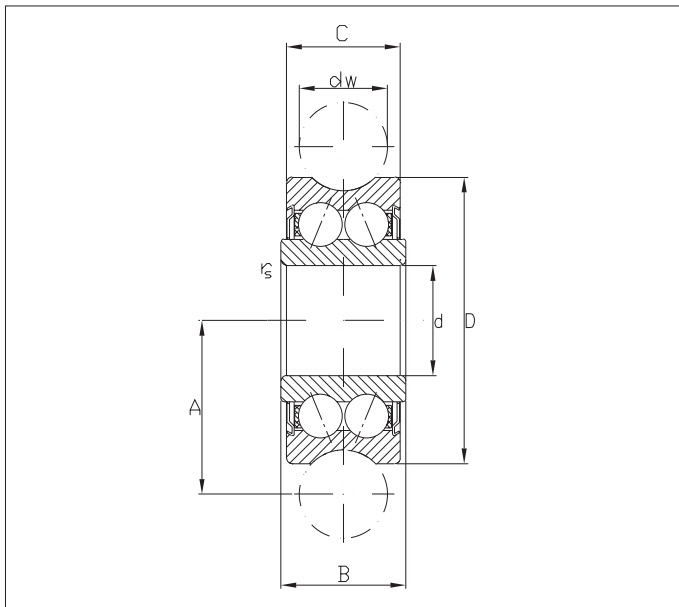
Double rows of balls track rollers
with cylindrical **OD**
Series **LR52..KDD**



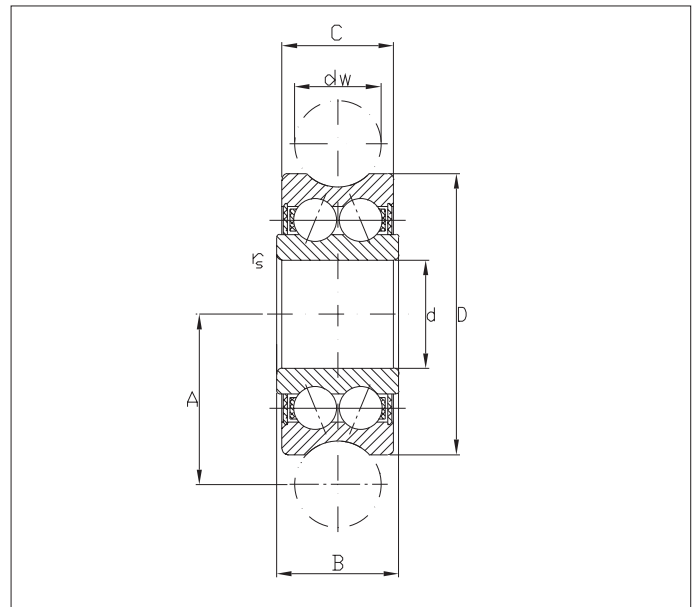
LR..52 KDD

Designation	Weight (g)	Dimensions (mm)					Load ratings			
		d	D	C	r_s min	d_1	C_w (N)	C_{ow} (N)	$F_{r \text{ perm}}$ (N)	$F_{or \text{ perm}}$ (N)
LR 5200 KDD	70	10	32	14	0,6	15,4	6.500	3.900	7.400	7.700
LR 5201 KDD	80	12	35	15,9	0,6	17,1	8.500	4.900	6.400	9.700
LR 5202 KDD	110	15	40	15,9	0,6	20	10.100	5.900	10.100	11.800
LR 5203 KDD	170	17	47	17,5	0,6	22,5	13.700	7.800	15.200	15.600
LR 5204 KDD	230	20	52	20,6	1	26,5	17.700	10.000	13.900	20.000
LR 5205 KDD	340	25	62	20,6	1	30,3	22.000	12.400	23.800	24.700
LR 5206 KDD	510	30	72	23,8	1	37,4	30.700	20.400	28.100	50.800
LR 5207 KDD	660	35	80	27	1,1	42,4	39.400	21.300	27.100	42.600
LR 5208 KDD	750	40	85	30,2	1,1	48,4	45.500	24.300	19.800	34.200

Double rows of balls track rollers
with Gothic arch profile on outer ring
Series R..



R..ZZ

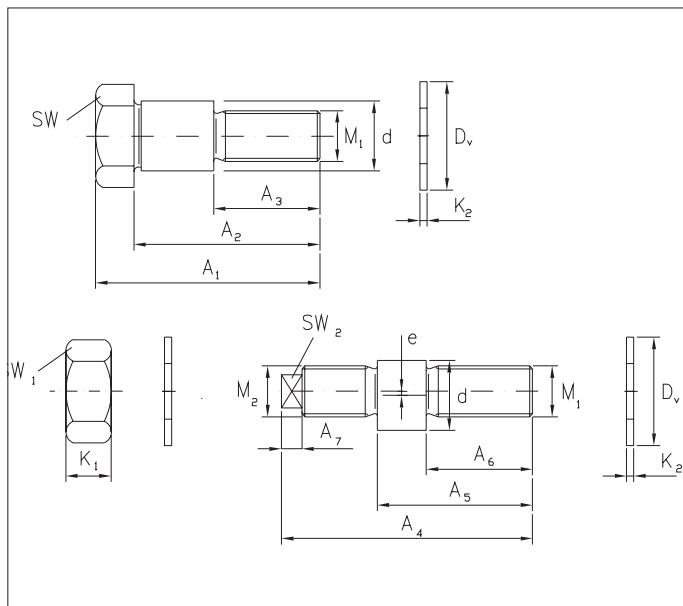
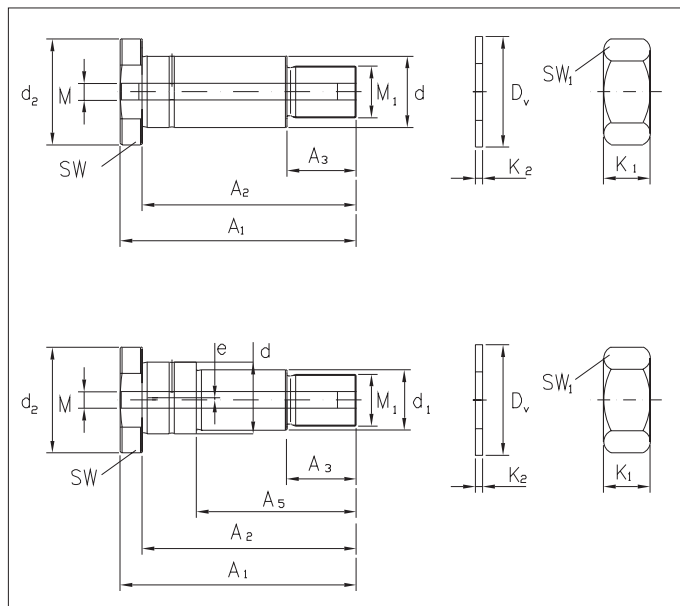


R..2RS

Designation		Weight (g)	Dimensions (mm)							Load ratings			
			dw	d	D	C	B -0,12	A	rs	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
R 50/4-4 ZZ	R 50/4-4 2RS	7	4	4	13	6	7	7,55	0,20	1.050	850	1.150	1.600
R 50/5-4 ZZ	R 50/5-4 2RS	9	4	5	16	7	8	9	0,20	1.200	860	1.300	1.780
R 50/5-6 ZZ	R 50/5-6 2RS	10	6	5	17	7	8	10,5	0,20	1.270	820	1.300	1.780
R 50/8-6 ZZ	R 50/8-6 2RS	20	6	8	24	11	11	14	0,30	3.670	2.280	1.300	4.560
R 5201-10 ZZ	R 5201-10 2RS	80	10	12	35	15,9	15,9	20,65	0,30	8.500	5.100	5.100	10.200
R 5301-10 ZZ	R 5201-10 2RS	100	10	12	42	19	19	24	0,60	13.000	7.700	7.500	14.200
R 5302-10 ZZ	R 5302-10 2RS	170	10	15	47	19	19	26,65	1,00	16.200	9.200	6.200	18.400
R 5201-12 ZZ	R 5201-12 2RS	85	12	12	35	15,9	15,9	21,75	0,30	8.400	5.000	5.100	10.000
R 5201-14 ZZ	R 5201-14 2RS	95	14	12	39,9	18	20	24	0,30	8.900	5.000	6.700	12.100
R 5204-16 ZZ*	R 5204-16 2RS*	230	16	20	52	20,6	22,6	31,5	0,60	16.800	9.500	12.100	16.600
R 5206-20 ZZ*	R 5206-20 2RS*	250	20	25	72	23,8	25,8	41	0,60	29.500	16.600	20.700	33.200
R 5206-25 ZZ*	R 5206-25 2RS*	250	25	25	72	23,8	25,8	43,5	0,60	29.200	16.400	23.100	32.800
R 5207-30 ZZ*	R 5207-30 2RS*	660	30	30	80	27	29	51	1,00	38.000	20.800	21.400	36.200
R 5208-40 ZZ*	R 5208-40 2RS*	1360	40	40	98	36	38	62,5	1,00	54.800	29.000	55.000	58.000
R 5308-50 ZZ*	R 5308-50 2RS*	1400	50	40	110	44	46	72,5	1,10	53.000	39.500	69.000	79.000

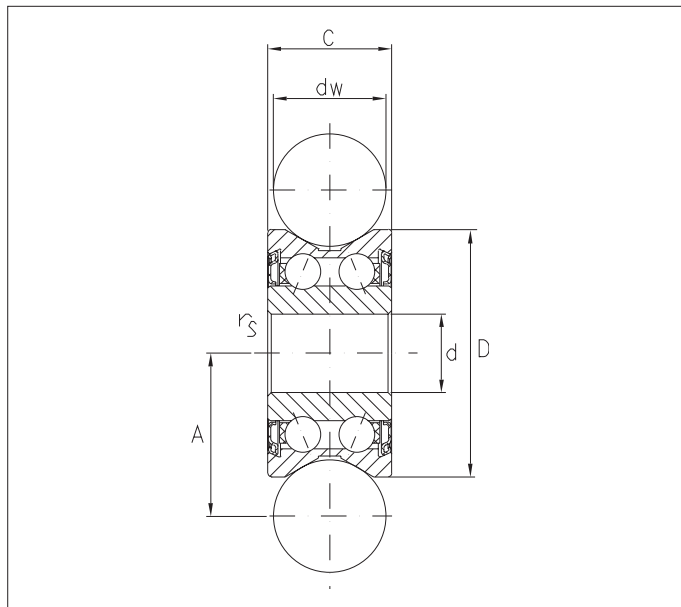
- Standard with lubrication hole on inner ring

Studs
Series **RC..**
RE..
RC..A1
RE..A1


RC..;RE..

RC..A1;RE..A1

Designation	Weight (g)	Dimensions(mm)																		
		A ₁	A ₂	A ₃	A ₄	A ₅	A ₆	A ₇	d ₁	d ₂	M ₁	M ₂	K ₁	K ₂	D _v	SW	SW ₁	SW ₂	e	M
RC5,RE5-05	10	19,5	16	9,5	20,5	15	9	-	-	-	M4	M4	2,9	-	-	3	7	2	0,5	-
RC5,RE5-05	10	19,5	16	9,5	20,5	15	9	-	-	-	M4	M4	2,9	-	-	3	7	2	0,5	-
RC8,RE8-1	20	28,3	24,3	14	33,2	22	13,7	3,5	-	-	M8	M8x0,75	4	1	14	13	13	2	1	-
RC12,RE12-1	40	43	36	22	50	33,5	19,5	5	-	-	M10	M10	8	1,8	21	17	17	5	1	-
RC12/M12,RE12-1/M12	60	50,8	43,8	24	57	41	24	5	-	-	M12	M12	6,5	1,8	19	17	17	6	1	-
RC15,RE15-1	60	50,8	43,8	26	57	41	24	5	-	-	M12	M12	6,5	1,8	21	19	19	6	1	-
RC12x45A1,RE12x45A1	40	50	45	16	-	30	-	-	10	20	M10x1,5	-	8	2	21	17	17	6	0,75	5,9
RC20x67A1,RE20x67A1	200	75	67	23	-	45	-	-	17	30	M16x1,5	-	13	3	30	27	24	-	1	5,9
RC25x82A1,RE25x82A1	400	92	82	30	-	57	-	-	22	40	M20x1,5	-	16	3	37	36	30	-	1	5,9
RC25x82A1,RE25x82A1	400	92	82	30	-	57	-	-	22	40	M20x1,5	-	16	3	37	36	30	-	1	5,9
RC30x95A1,RE30x95A1	620	107	95	32	-	67	-	-	27	45	M24x1,5	-	19	4	44	41	36	-	1	5,9
RC40x107A1,RE40x107A1	1100	117	107	42	-	72	-	-	36	55	M30x1,5	-	24	4	56	46	46	-	1	5,9
RC40x115A1,RE40x115A1	1200	125	115	42	-	72	-	-	36	55	M30x1,5	-	24	4	56	46	46	-	1	5,9

Double rows of balls track roller
with "V" groove profile on outer ring
Series **RV..**

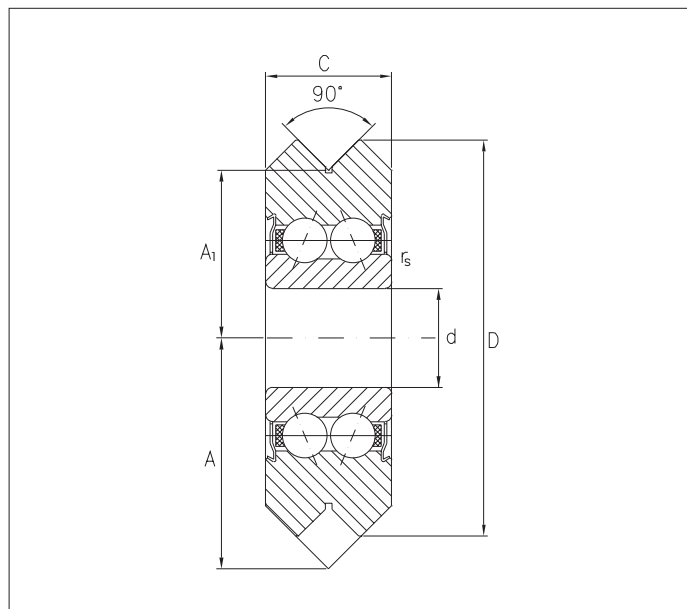


RV..

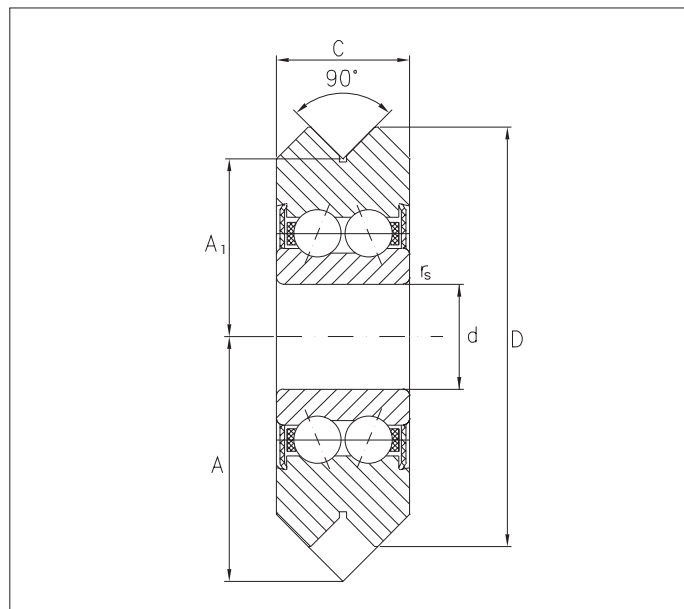
Designation	Weight (g)	Dimensions (mm)						Load ratings			
		dw	d	D	C	A	r min	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
RV 20/7-10	17	10	7	22	11	14,5	0,30	2.450	1.620	2.350	4.150
RV 20/8-10	62	10	8	30	14	18,1	0,30	4.490	2.700	11.000	19.800
RV 202/15.38-10	86	10	15	38	17	22,25	0,50	7.290	4.550	10.200	17.900
RV 202/15.40-10	110	10	15	40	18	22	0,50	7.950	4.950	14.500	26.500
RV 201/12-20	130	20	12	41	20	28	0,30	8.180	5.100	17.200	31.500
RV 202/15.41-20	120	20	15	41	20	28	0,50	8.180	5.100	17.200	31.500
RV 203/17	325	20	17	58	25	35	0,50	16.580	9.200	47.000	86.000
RV 204/20.57-30	290	30	20	57	22	41	0,60	16.910	9.200	47.000	86.000
RV 204/20.58-30	310	30	20	58	25	41	0,60	16.790	9.200	40.000	72.000

- The unit contamination protection is provided by side shields **ZZ**.

Double rows of balls track rollers
with "W" groove profile on outer ring
Series **RM..**



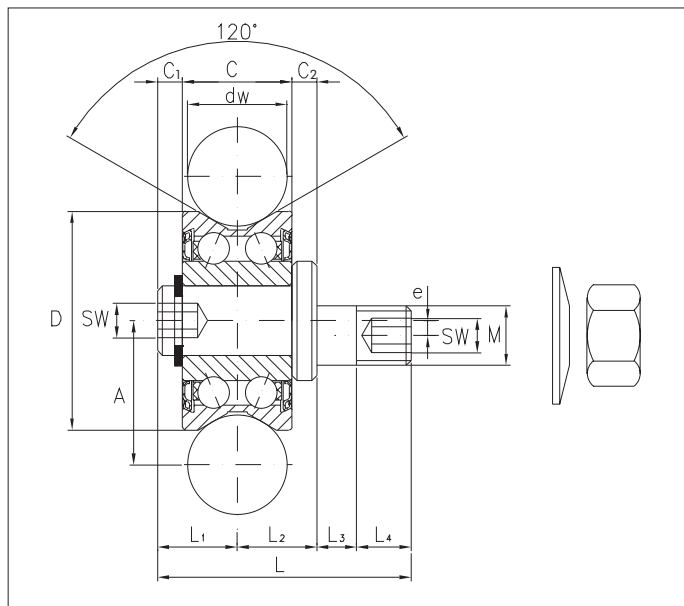
RM..ZZ



RM..2RS

Designation		Weight (g)	Dimensions (mm)							Load ratings			
			d	D	C	A ₁	A	r _s		C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
RM1 ZZ	RM1 2RS	12	4,763	19,56	11,86	7,87	7,93	0,3		1.650	1.140	4.150	7.500
RM2 ZZ	RM1 2RS	40	9,525	30,73	18,24	11,10	12,70	0,3		8.260	2.650	6.500	11.700
RM3 ZZ	RM1 2RS	136	11,999	45,72	26,98	15,88	19,05	0,6		5.530	5.200	31.000	55.000
RM4 ZZ	RM1 2RS	285	15,001	59,94	34,93	19,05	25,40	1		16.250	9.200	39.500	72.000

Double rows of balls track rollers
with "V" groove profile on outer ring and integral stud
Series **RV..C; RV..E**

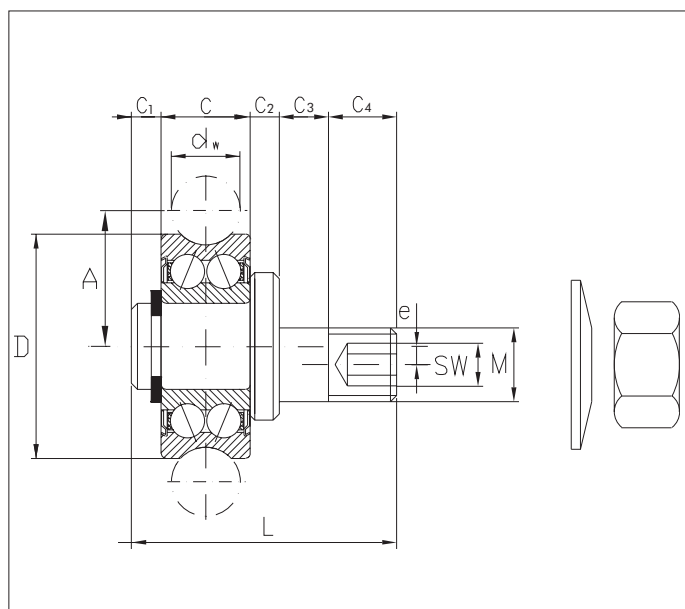


RV..C; RV..E

Roller designation with integral stud		Weight (g)	Dimensions (mm)														Load ratings			
concentric	eccentric		dw	D	C	A	L	L ₁	L ₂	L ₃	L ₄	C ₁	C ₂	e	SW	M	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
RV 22C	RV 22E	28	10	22	11	14,5	26	8,5	8	4	5,5	3	3	1,5	3	M6	2.450	1.620	2.350	4.150
RV 30C	RV 30E	69	10	30	14	18,1	33	9,5	9	6	8	2	2,5	1,5	4	M8	4.490	2.700	11.000	19.800
RV 38C	RV 38E	145	10	38	17	22,3	42	11	11	8	12	3	2,5	2	5	M10	7.290	4.550	10.200	17.900
RV 41C	RV 41E	190	20	41	20	28	47	15	13	6	13	3	5	2	6	M12	8.180	5.100	17.200	31.500
RV 58C	RV 58E	460	20	58	25	35	59	17	19	11	13	6	4	2,5	6	M16	16.580	9.200	47.000	86.000

- Track rollers with integral studs are supplied with split washer and nut.
- The unit contamination protection is provided by side shields **ZZ**.

Double rows of balls track rollers
with Gothic arch profile on outer ring
with integral stud
Series **RPC..;RPE..**

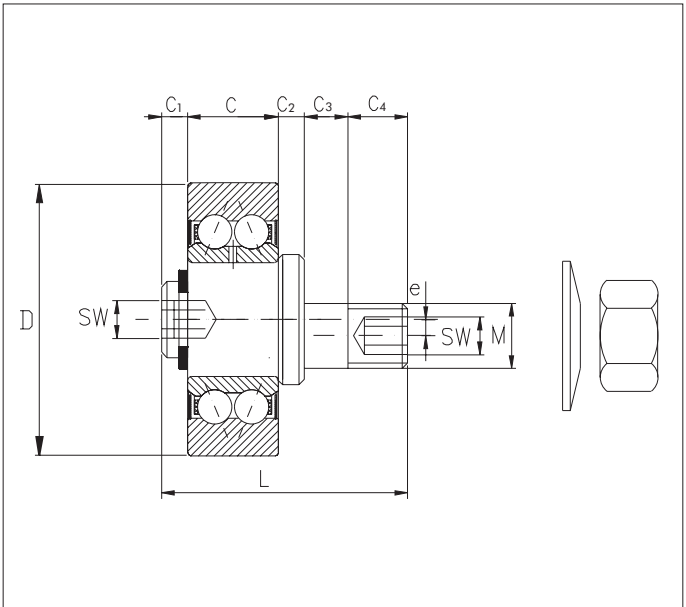


RPC..;RPE..

Roller designation with integral stud		Weight (g)	Dimensions (mm)												Load ratings			
			dw	D	C	A	L	C ₁	C ₂	C ₃	C ₄	e	SW	M	C _w (N)	C _{ow} (N)	F _{r perm} (N)	F _{or perm} (N)
concentric	eccentric																	
RPC 17	RPE 17	15	6	17	7	10,5	23	1,5	1,5	5	5,5	0,5	2,5	M5	1.250	850	1.250	1.700
RPC 24	RPE 24	42	6	24	11	14	29	3	2	6	7	0,5	4	M8	3.500	2.200	1.250	4.350
RPC 35	RPC 35	120	10	35	15,9	20,65	44	3,2	2	10	13	0,75	5	M10	8.100	4.900	4.900	9.700

- Track rollers with integral studs are supplied with split washer and nut.

Double rows of balls track rollers
with integral stud
Serie **RA..A**



RA..A

Roller designation with integral stud	Weight (g)	Dimensions (mm)										Load ratings			
		D	C	L	C ₁	C ₂	C ₃	C ₄	e	SW	M	C _w (N)	C _{ow} (N)	F _{rperm} (N)	F _{orperm} (N)
RA 35A	150	35	15,9	42	2,1	5	6	13	1	5	M12	8.100	4.900	4.900	9.700
RA 52A	345	52	22,2	57	3,3	8	9,5	14	1,5	6	M16	16.000	9.100	11.500	15.800

- Track rollers with integral studs are supplied with split washer and nut.
- The unit contamination protection is provided by side shields **ZZ**.



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