



Markes GmbH & Co. KG Metallwarenfabrik

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Load capacity:

The load capacity of the ball bearing is specified as load rating C in daN and tested under following conditions:

- 200mm roller length (short roller)
- axis fixed restrained
- rotational speed 100min⁻¹ - 200min⁻¹
- 1.000.000 revolutions (load change)

Service life:

From the load capacity the service life of the ball bearing could be calculated with following formula:

$$Lh = \frac{1000000}{60 \times n} \left(\frac{C}{P} \right)^p$$

Herein are:

- Lh: nominal service life [h]
- C: dynamic load rating [N]
- n: revolutions [min⁻¹]
- P: dynamic bearing load [N]
(P = C in case of radial load only)
- p: exponent of service life equation
(for ball bearing is considered p=3)

Plastics:

Polypropylen (PP)

- good mechanical characteristic
- excellent shock resistance

Polyacetal (POM)

- high hardness and stiffness
- low absorbtion of humidity
- good friction and abrasion characteristic

Polyamid (PA)

- tenacious/rigid
- very good mechanical characteristic and abrasion resistance

Antistatic Plastics

- PP
- POM

The use of antistatic plastics is only premissible in the provided temperature range. We can not give any guarantee for the conductivity.

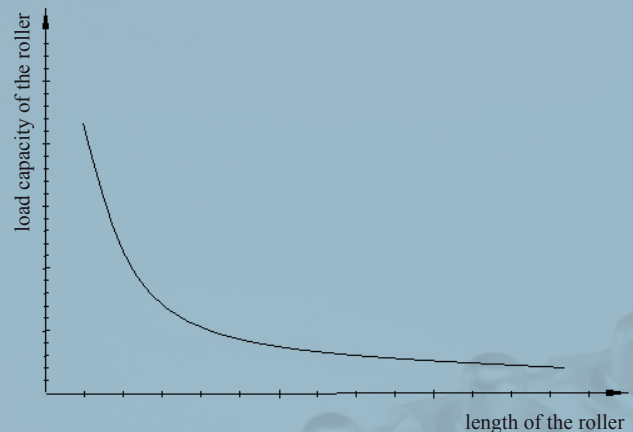
Attention: Do not use in explosion-proofed areas !!!

Affecting conditions:

Under different conditions the roller manufacturer has to determine the real new load capacity of the roller by himself. Kindly note that the service life and the load capacity of your roller will be determined by:

- roller length
- axis diameter
- style of the axis
- environment influences

Influence of the roller length for the load rating:



Lubricants:

Our ball bearings are equipped with high quality lubricants. Furthermore our special greases and oils can reach a temperature range from -35°C to +180°C. Our tested lubricants are best proved for many years under every conditions. In a given case please ask for the optimal lubricants recommended by MARKES..

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Metal roller bearings MTR up to 150 daN



MTR

Metal roller bearings MTR

- for inserting into steel tubes
- semi precision ball bearing or ball bearing according DIN
- typically use and characteristic
 - semi precision: easy running for gravity conveyors and for axial load too up to 200 r.p.m. usual
 - DIN: noise reduced and used for higher loads and power driven conveyors
- extensive attachment
- special type made of stainless steel or with special lubrication on request



MTR

Metal roller bearings MTS up to 250 daN

2



MTS

Metal roller bearings MTS

- for inserting in steel tubes
- ball bearings according to DIN
- typically use and characteristic
 - suitable for heavy loads (palett transport)
 - used as counter bearing for brake rollers
- extensive attachment
- special type made of stainless steel or with special lubrication on request



MTS

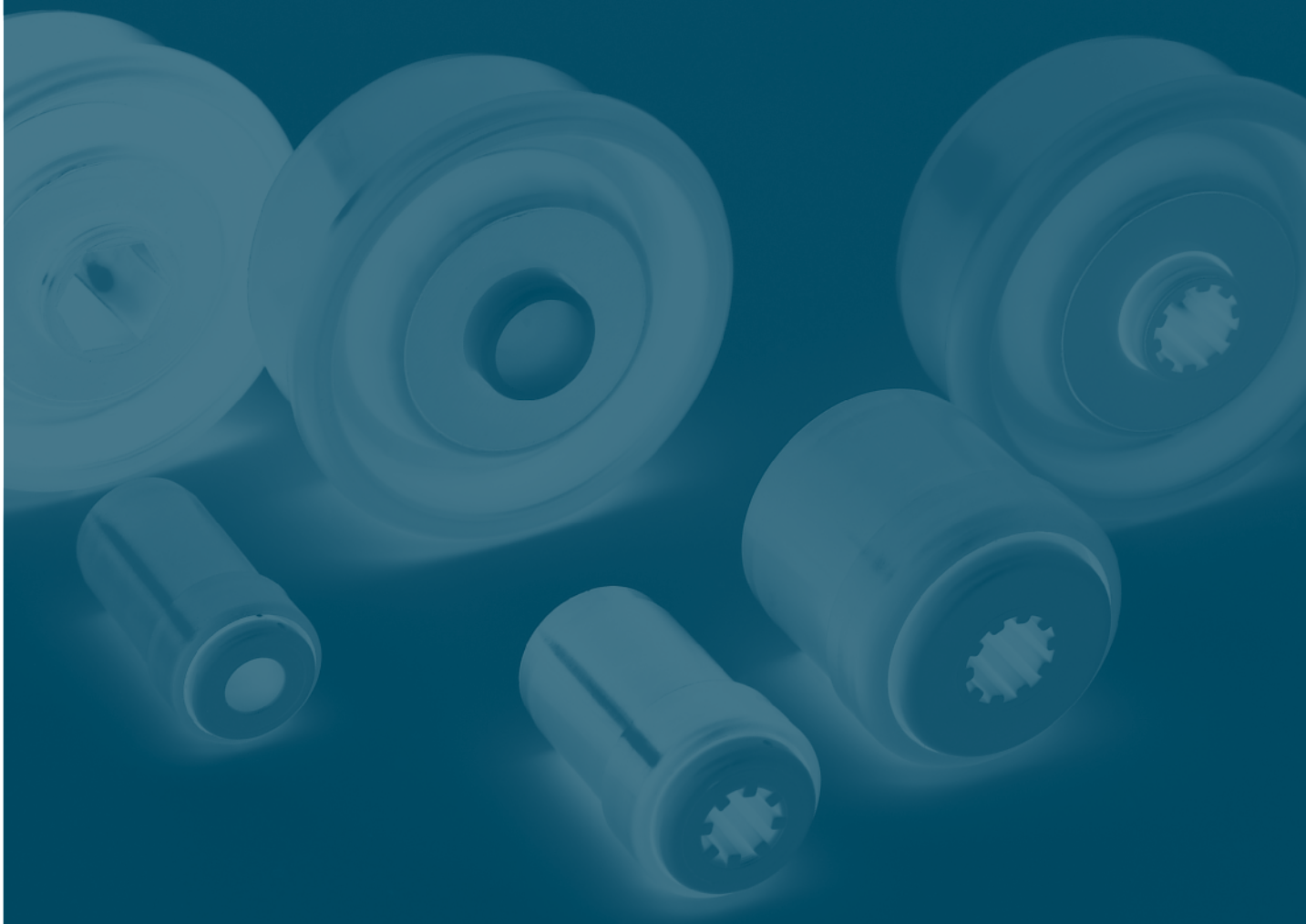
Plastic roller bearings KTR up to 10 daN



KTR

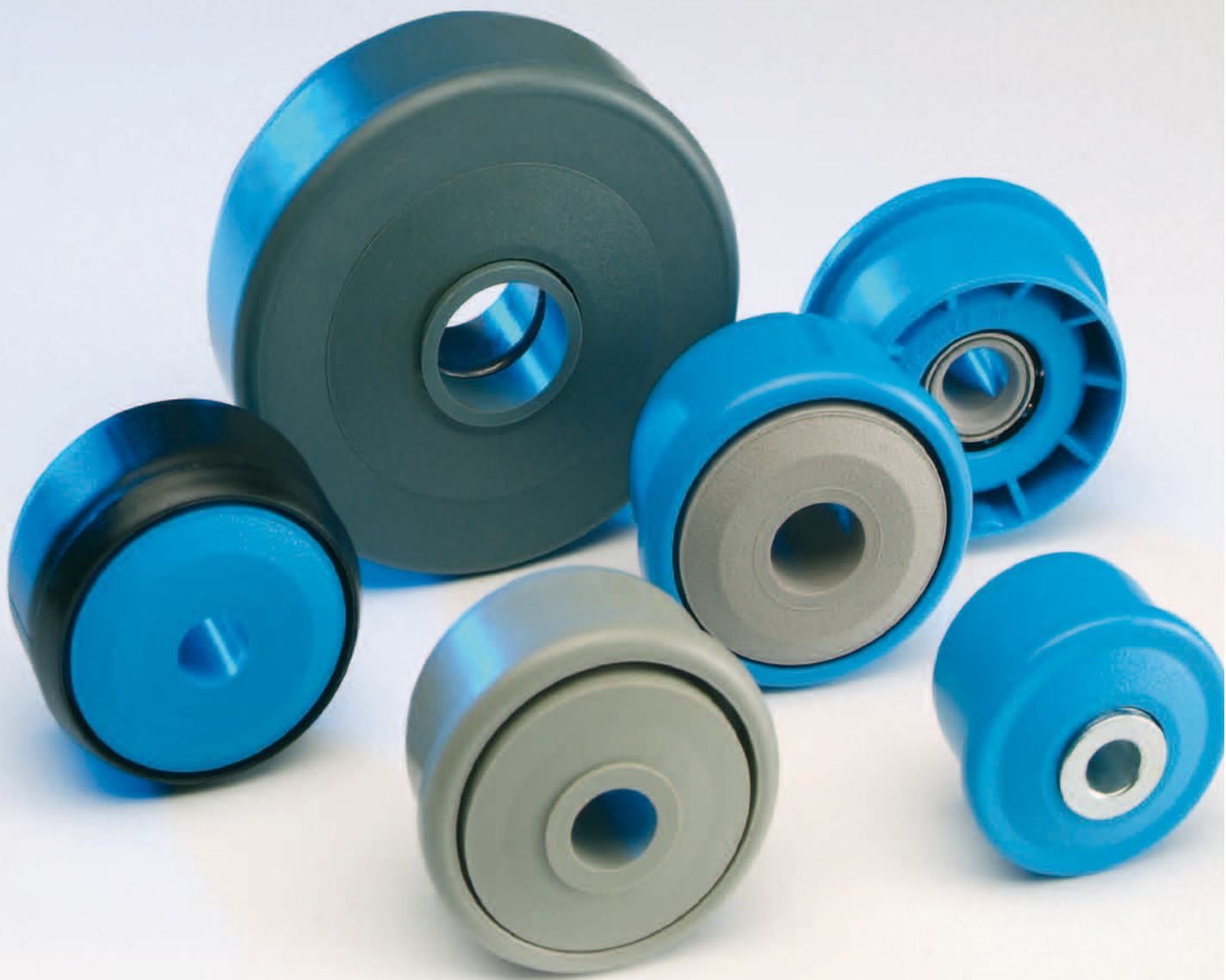
Plastic roller bearings KTR

- easy assembling by pressing into tubes
- one or two ball cages
- typically use and characteristic
 - easy running for gravity conveyors
- extensive attachment
- special type like antistatic, with special lubrication or individual lay-out on request



KTR

Plastic roller bearings KTR/KTE up to 150 daN



KTR/KTE

Plastic roller bearings KTR/KTE

- KTR for pressing and KTE for inserting into tubes
- semi precision ball bearing or ball bearing according DIN
- typically use and characteristic
 - semi precision: easy running for gravity conveyor and for axial load too up to 200 r.p.m.
 - DIN: noise reduced and used for higher loads and power driven conveyors
- special type like antistatic, with special lubrication or individual lay-out in request



KTR/KTE

Skate Wheels KLR/SLR/SR



KLR/SLR/SR

Skate Wheels KLR/SLR/SR

- plastic skate wheels double-row ball cage
- free running on axis
- typically use and characteristic
 - very easy running for skate wheel conveyors
- extensive attachment
- special type like antistatic, noise reduced or individual lay-out on request

KLR/SLR/SR

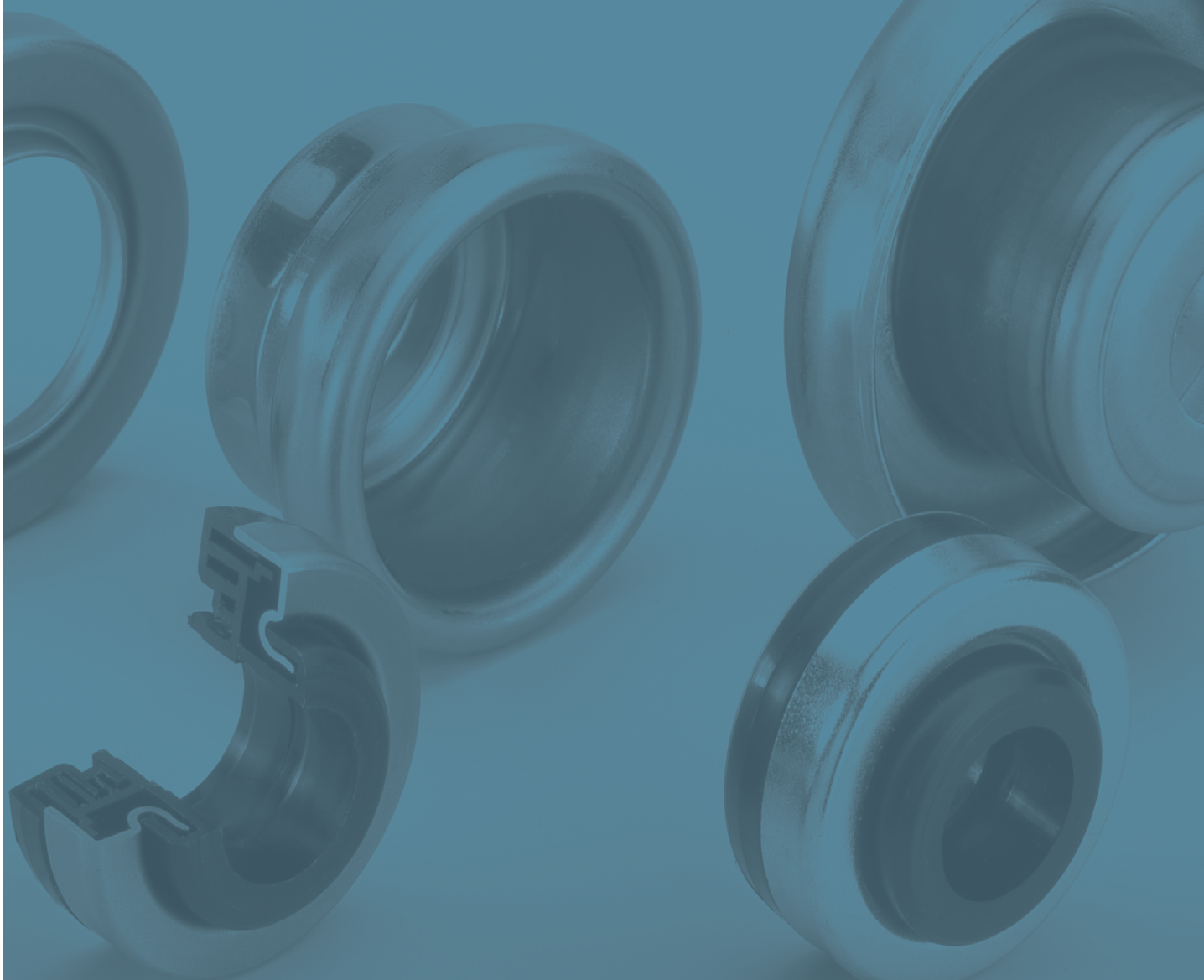
Retainer for standard bearings LH/KLH/FL



LH/KLH/FL

Retainer for standard bearings LH/KLH/FL

- for welding into the tube
- typically use and characteristic
 - for conveyor rollers for bulk-material systems
- extensive attachment
- special type like stainless steel on request



LH/KLH/FL

Sprockets



Sprockets

- easy assembling by pressing into the tube
- precision ball bearing according DIN
- typically use and characteristic
 - for friction and fix driven conveyor systems
- extensive attachment
- special types on request

SPROCKETS

Components



Components

- single components for self-assembling with precision ball bearings according DIN
- MARKES can not give any guarantee for the self-assembled compoments
- special types on request



COMPONENTS

Special bearings



SPECIAL BEARINGS

Special Bearings

- wide range of special ball bearings for different use
- radial ball bearings
 - for use in shutters
- cone ball bearings
 - for the wheel industry
- pressed thrust ball bearings
 - especially for axial load
- special types on request



SPECIAL BEARINGS

Additional products/Attachment



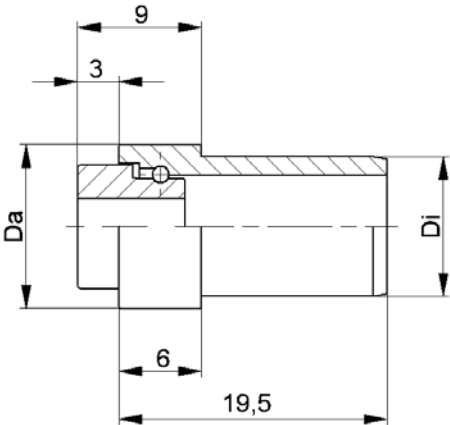
ADDITIONAL PRODUCTS

Additional products/Attachment

- extensive attachment for further products
- sales being effected via cooperation partners
- special bearings on request



ADDITIONAL PRODUCTS

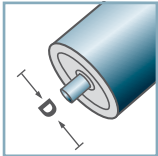


MTR-01			
Type	Di	Da	Load Rating C [daN]
MTR-12x1,0.01	10,15	11,9	4
Other dimensions on request!			

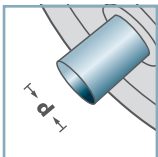
- Ⓒ Housing: Stainless
- Ⓒ Inner Race: Stainless
- Ⓒ Ball: Stainless



MTR-01



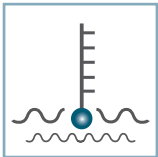
D [mm]
12



d [mm]
4



C [daN]
4



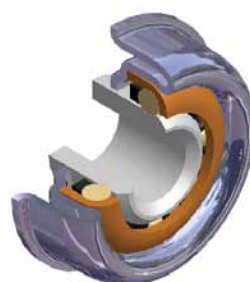
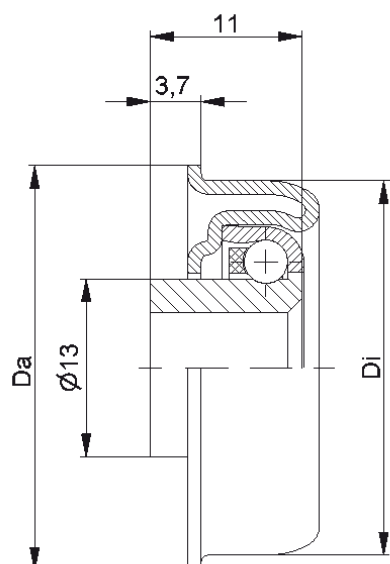
T [°C]
0° - 100°



Carton [pcs.]



MTR



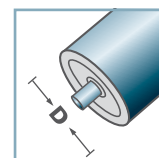
MTR-16			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-30x1,2.16	27,6	29,6	30
MTR-30x1,5.16	27,3	29,6	30

Other dimensions on request!

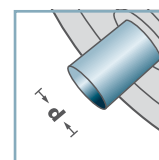
- ☛ Housing: Steel, Zinc plated
- ☛ Bearing RL-16
 - ☛ Bearing Shell: Steel, Hardened
 - ☛ Inner Race: Steel, Hardened, Zinc plated
 - ☛ Ball Cage: Plastic
 - ☛ Ball: Steel



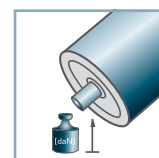
MTR-16



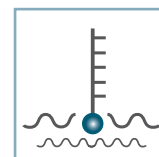
D [mm]
30



d [mm]
8; 10



C [daN]
30



T [°C]
0° - 100°



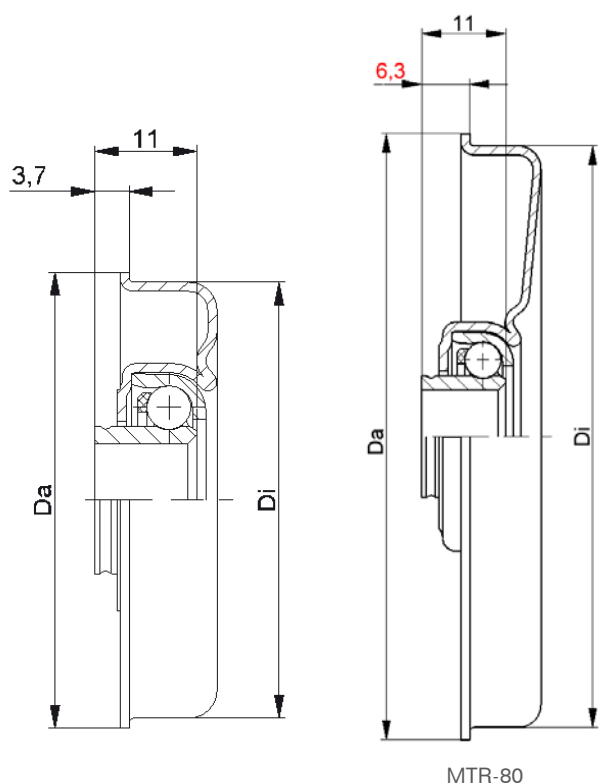
Vactra No. 2



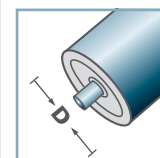
Carton [pcs.]

500

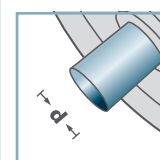
MTR



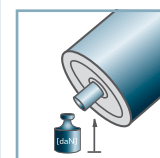
MTR-20



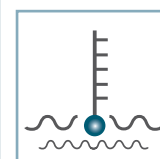
D [mm]
40 - 80



d [mm]
8; 10; 12; SW11



C [daN]
80



T [°C]
0° - 100°



Vactra No. 2



Carton [pcs.]

ø40:	250
ø48:	350
ø50:	350
ø60:	200
ø80:	125

MTR-20			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-40x1,5.20	37,3	39,5	80
MTR-40x2,0.20	36,3	39,5	80
MTR-48x1,5.20	45,3	47,5	80
MTR-50x1,5.20	47,3	49,5	80
MTR-50x2,0.20	46,3	49,5	80
MTR-60x1,5.20	57,3	59,5	80
MTR-60x2,0.20	56,3	59,5	80
MTR-80x2,0.20	76,4	79,5	80
Other dimensions on request!			

⚙ Housing: Steel, Zinc plated

⚙ Bearing RL-20

⚙ Bearing Shell: Steel, Hardened

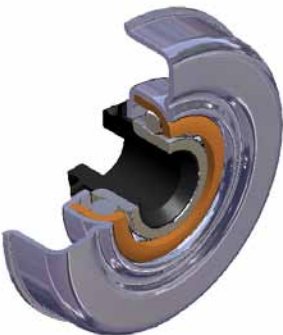
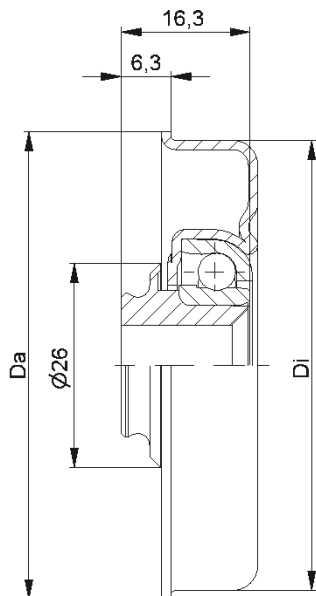
⚙ Inner Race: Steel, Hardened, Zinc plated

⚙ Ball Cage: Plastic

⚙ Ball: Steel



MTR

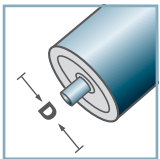


MTR-30			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-50x1,5.30	47,3	49,5	120
MTR-50x2,0.30	46,3	49,5	120
MTR-50x3,0.30	44,3	49,5	120
MTR-60x1,5.30	57,3	59,5	120
MTR-60x2,0.30	56,3	59,5	120
MTR-80x2,0.30	76,4	79,5	120
Other dimensions on request!			

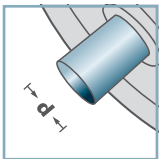
- ⌚ Housing: Steel, Zinc plated
- ⌚ Reducing Bush: Plastic
- ⌚ Bearing RL-30
 - ⌚ Bearing Shell: Steel, Hardened
 - ⌚ Inner Race: Steel, Hardened
 - ⌚ Ball: Steel



MTR-30



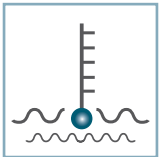
D [mm]
50 - 80



d [mm]
8; 10; 12; SW11



C [daN]
120



T [°C]
0° - 100°



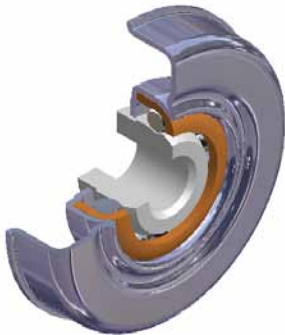
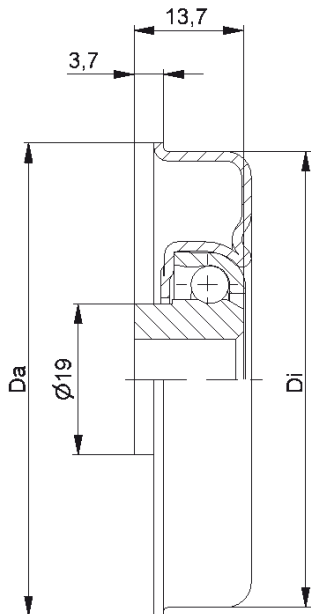
EP 0



Carton [pcs.]

ø50: 300
ø60: 200
ø80: 125

MTR

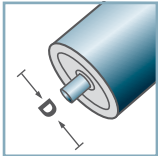


MTR-30-2			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-50x1,5.30-2	47,3	49,5	120
MTR-50x2,0.30-2	46,3	49,5	120
MTR-60x1,5.30-2	57,3	59,5	120
MTR-60x2,0.30-2	56,3	59,5	120
MTR-80x2,0.30-2	76,4	79,5	120
Other dimensions on request!			

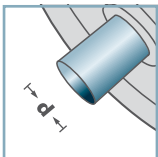
- ⚙ Housing: Steel, Zinc plated
- ⚙ Bearing RL-30-2
 - ⚙ Bearing Shell: Steel, Hardened
 - ⚙ Inner Race: Steel, Hardened
 - ⚙ Ball: Steel



MTR-30-2



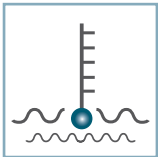
D [mm]
50 - 80



d [mm]
10;12; 14; 15;
SW11



C [daN]
120



T [°C]
0° - 100°



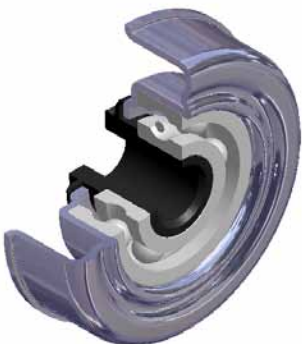
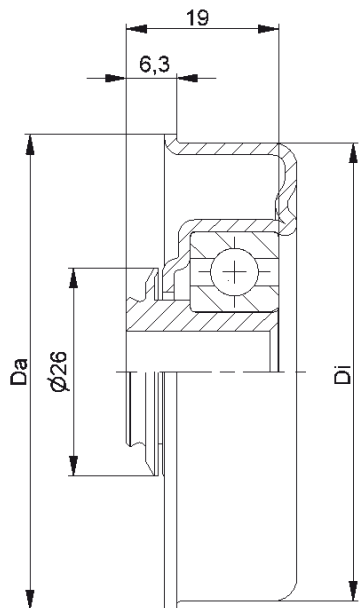
EP 0



Carton [pcs.]

ø50: 300
ø60: 200
ø80: 125

MTR

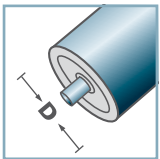


MTR-40			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-50x1,5.40	47,3	49,5	120
MTR-50x2,0.40	46,3	49,5	120
MTR-60x1,5.40	57,3	59,5	150
MTR-60x2,0.40	56,3	59,5	150
MTR-60x3,0.40	54,3	59,5	150
MTR-80x2,0.40	76,5	79,5	150
Other dimensions on request!			

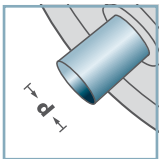
- ⚙ Housing: Steel, Zinc plated
- ⚙ Reducing Bush: Plastic
- ⚙ Bearing 6202



MTR-40



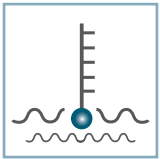
D [mm]
50 - 80



d [mm]
10; 12; SW11



C [daN]
120 - 150



T [°C]
0° - 80°



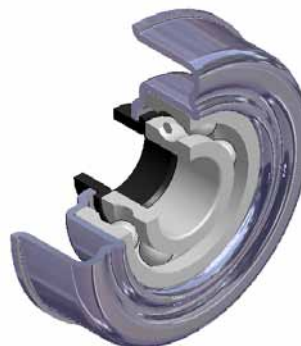
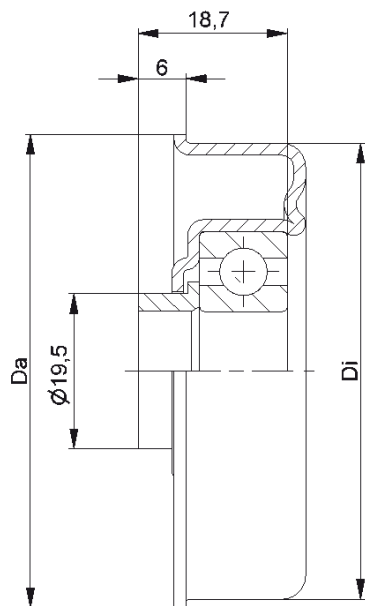
EP 2



Carton [pcs.]

ø50: 100
ø60: 200
ø80: 125

MTR



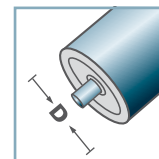
MTR-40.15			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-50x1,5.40.15	47,3	49,5	120
MTR-50x2,0.40.15	46,3	49,5	120
MTR-60x1,5.40.15	57,3	59,5	150
MTR-60x2,0.40.15	56,3	59,5	150
MTR-60x3,0.40.15	54,3	59,5	150
MTR-70x2,0.40.15	66,4	69,5	150
MTR-80x2,0.40.15	76,5	79,5	150

Other dimensions on request!

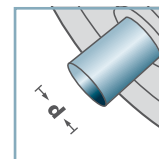
- Ⓒ Housing: Steel, Zinc plated
- Ⓒ Distance Bush: Plastic
- Ⓒ Bearing 6202



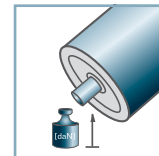
MTR-40.15



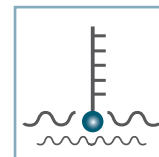
D [mm]
50 - 80



d [mm]
15



C [daN]
120 - 150



T [°C]
0° - 80°



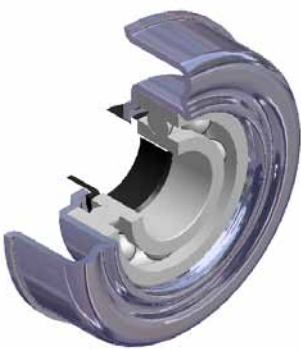
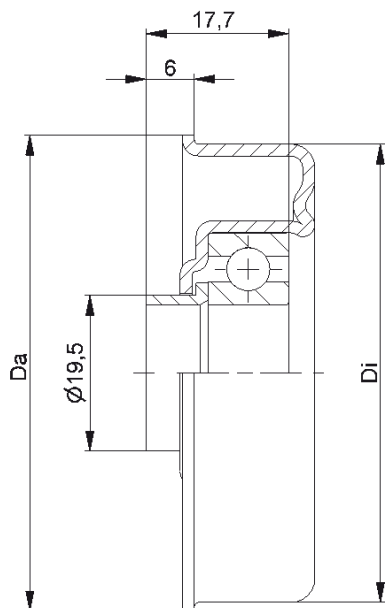
EP 2



Carton [pcs.]

ø50: 100
ø60: 200
ø70: 125
ø80: 125

MTR



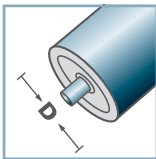
MTR-45.17			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTR-50x1,5.45.17	47,3	49,5	120
MTR-80x2,0.45.17	76,5	79,5	150

Other dimensions on request!

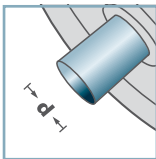
- ⚙ Housing: Steel, Zinc plated
- ⚙ Distance Bush: Plastic
- ⚙ Bearing 6003



MTR-45.17



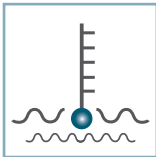
D [mm]
50, 80



d [mm]
17



C [daN]
150



T [°C]
0° - 80°



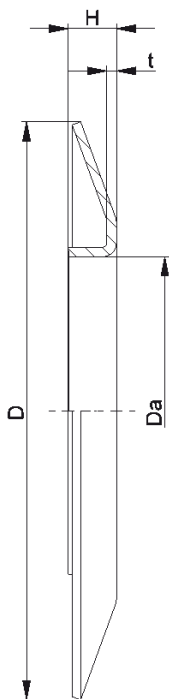
EP 2



Carton [pcs.]

ø50: 100
ø80: 125

MTR

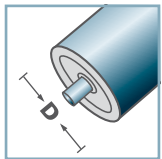


BS-				
Type	Da ±0.1	D -2	H ±0.5	t
BS-50-130	49,9	130	10	1,5
BS-60-130	59,9	130	10	1,5
BS-80-150	79,9	150	14	2,5
BS-89-150	88,9	150	14	2,5
BS-108-150	107,9	150	14	2,5
Other dimensions on request!				

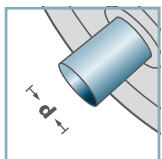
Wheel Flange: Steel



BS-



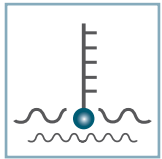
D [mm]
50 - 108



d [mm]
-



C [daN]
-



T [°C]
-

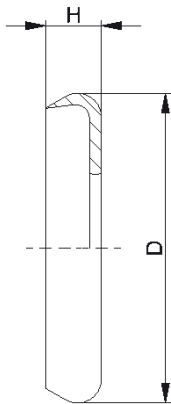


-



Carton [pcs.]



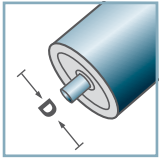


DK-MTR		
Type	D	H
DK-MTR-20	34	7
DK-MTR-30-2	39	7
Other dimensions on request!		

Seal Bonnet: Plastic

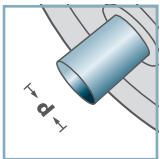


DK-MTR-



D [mm]

-



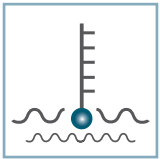
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



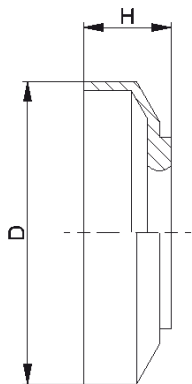
-



Carton [pcs.]

-

MTR

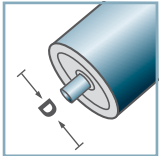


DK-MTR		
Type	D	H
DK-MTR-30	38	11
Other dimensions on request!		

Seal Bonnet: Plastic

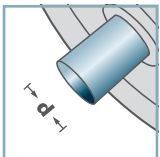


DK-MTR-



D [mm]

-



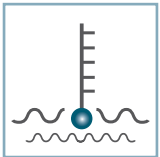
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



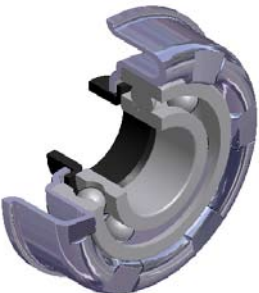
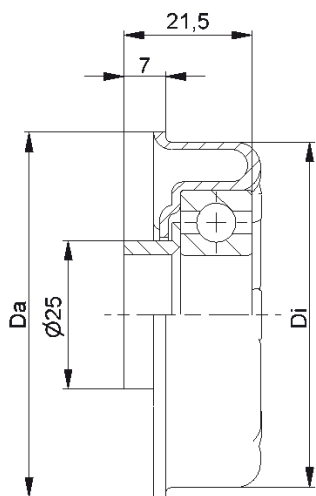
-



Carton [pcs.]



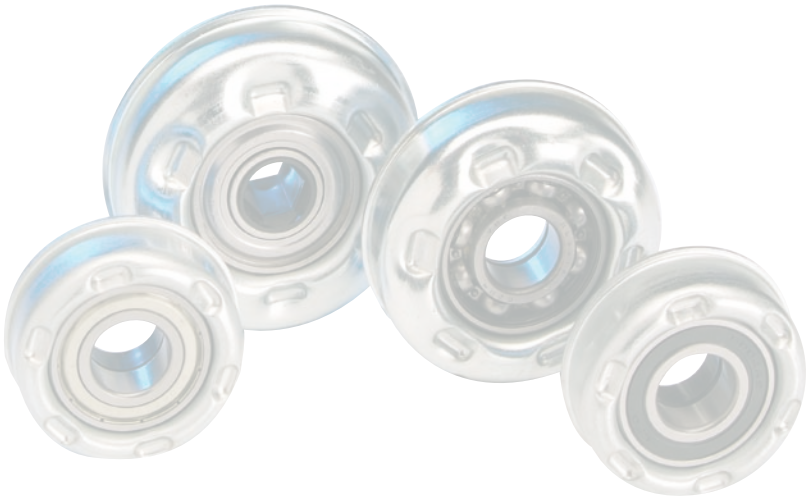
MTR



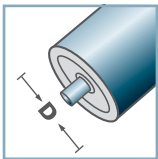
MTS-46			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTS-63,5x2,9.46	58,1	61,5	200

Other dimensions on request!

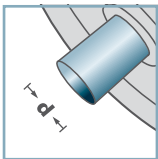
- ⌚ Housing: Steel, Zinc plated
- ⌚ Distance Bush: Plastic
- ⌚ Bearing 6004



MTS-46



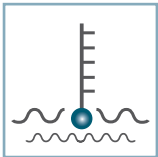
D [mm]
63,5



d [mm]
20



C [daN]
200



T [°C]
0° - 100°

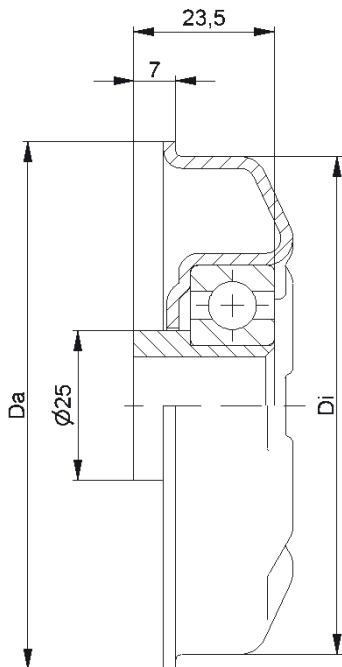


EP 2



Carton [pcs.]

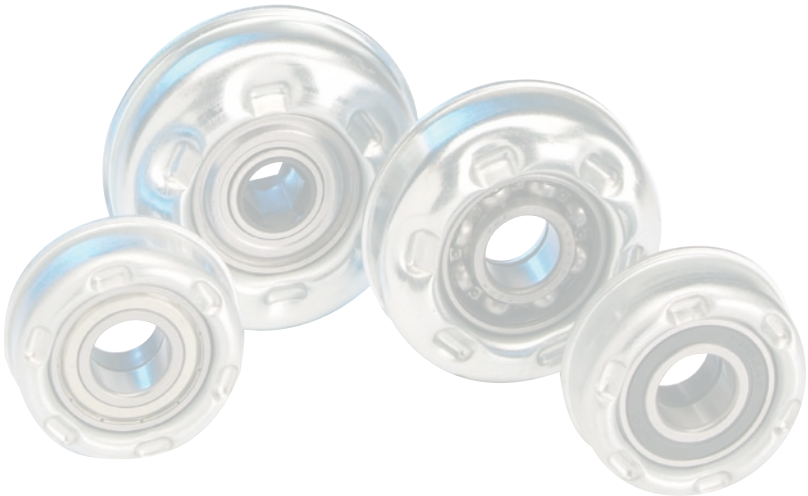
50



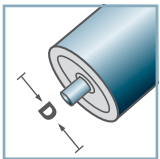
MTS-44			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTS-80x2,0.44	76,5	79,5	250
MTS-80x3,0.44	74,5	79,5	250
MTS-89x3,0.44	83,5	88,5	250
MTS-89x3,25.44	83,0	88,5	250
MTS-108x3,25.44	102,0	107,5	250

Other dimensions on request!

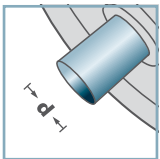
- Ⓒ Housing: Steel, Zinc plated
- Ⓒ Reducing Bush: Plastic
- Ⓒ Bearing 6204



MTS-44



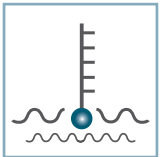
D [mm]
80 - 108



d [mm]
16; 17; SW14



C [daN]
250



T [°C]
0° - 100°

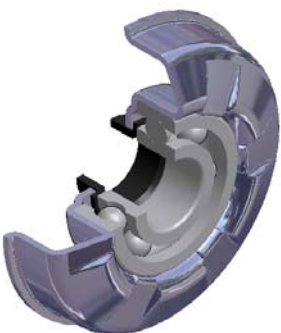
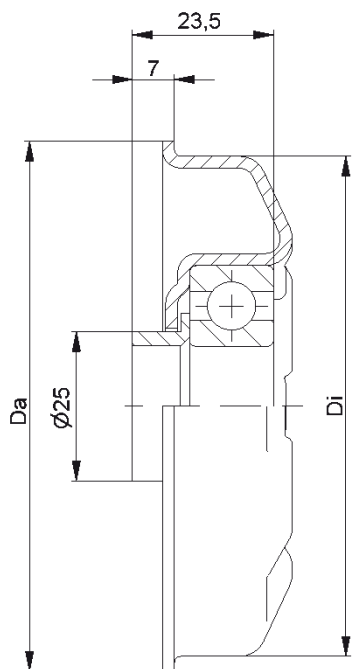


EP 2



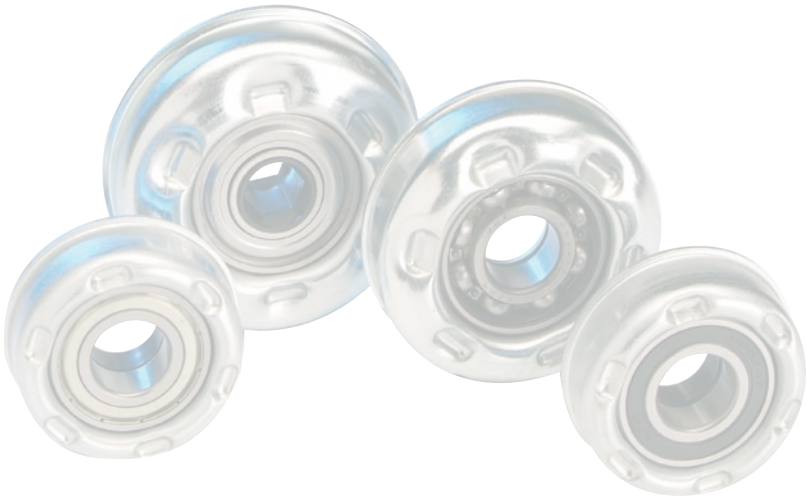
Carton [pcs.]

50

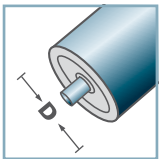


MTS-44			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTS-80x2,0.44	76,5	79,5	250
MTS-80x3,0.44	74,5	79,5	250
MTS-89x3,0.44	83,5	88,5	250
MTS-89x3,25.44	83,0	88,5	250
MTS-108x3,25.44	102,0	107,5	250
Other dimensions on request!			

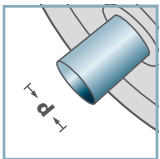
- ⚙ Housing: Steel, Zinc plated
- ⚙ Distance Bush: Plastic
- ⚙ Bearing 6204



MTS-44



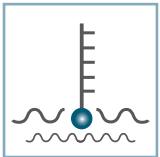
D [mm]
80 - 108



d [mm]
20



C [daN]
250



T [°C]
0° - 100°

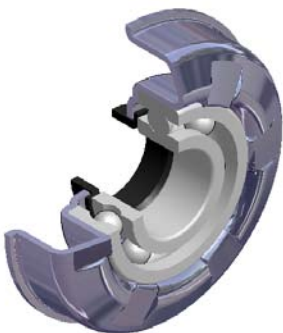
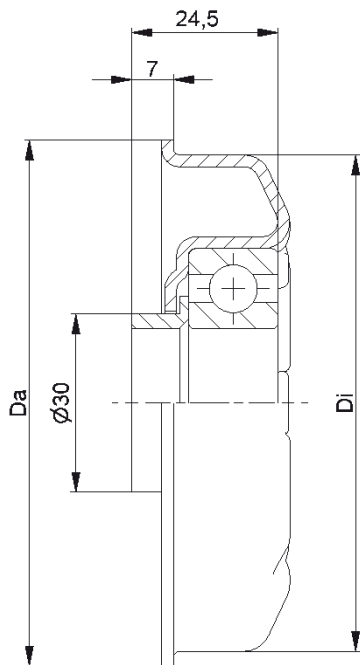


EP 2



Carton [pcs.]

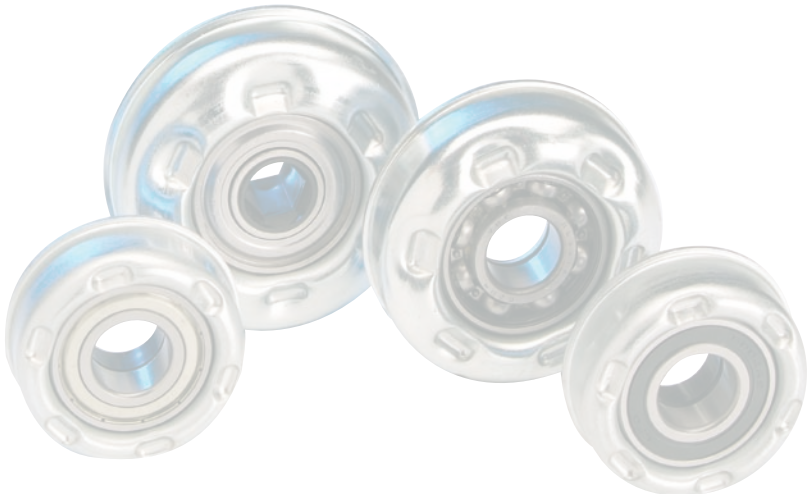
50



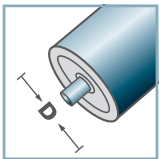
MTS-47			
Type	Di ±0.1	Da ±0.2	Load Rating C [daN]
MTS-89x3,0.47	83,5	88,5	250
MTS-108x3,25.47	102,0	107,5	250

Other dimensions on request!

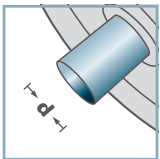
- ⚙ Housing: Steel, Zinc plated
- ⚙ Distance Bush: Plastic
- ⚙ Bearing 6205



MTS-47



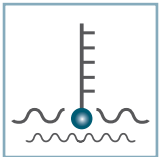
D [mm]
89 - 108



d [mm]
25



C [daN]
250



T [°C]
0° - 100°



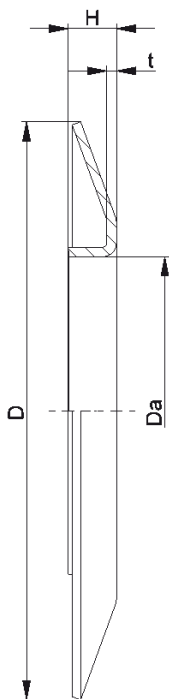
EP 2



Carton [pcs.]

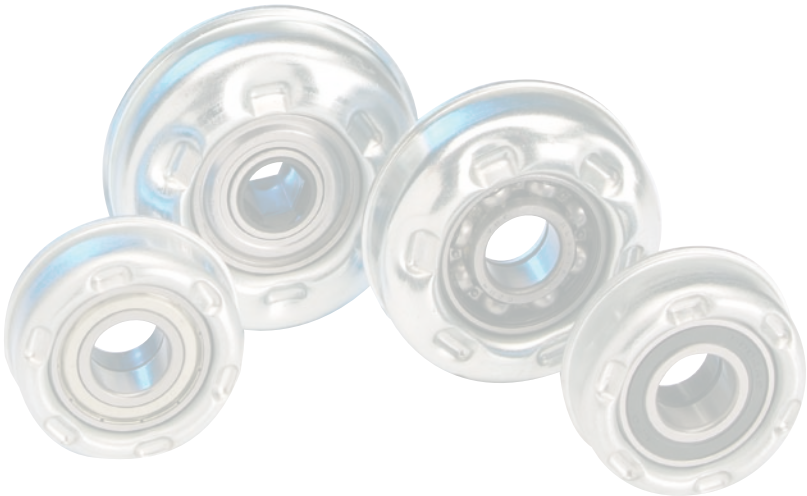
50

MTS

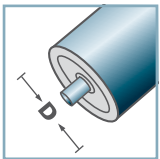


BS-				
Type	Da ±0.1	D -2	H ±0.5	t
BS-50-130	49,9	130	10	1,5
BS-60-130	59,9	130	10	1,5
BS-80-150	79,9	150	14	2,5
BS-89-150	88,9	150	14	2,5
BS-108-150	107,9	150	14	2,5
Other dimensions on request!				

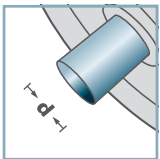
Wheel Flange: Steel



BS-



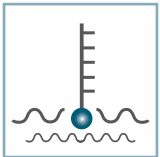
D [mm]
50 - 108



d [mm]
-



C [daN]
-



T [°C]
-

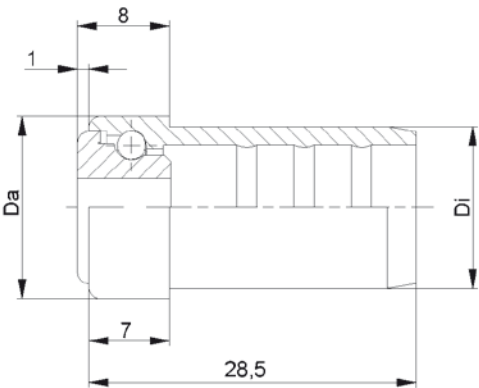


-



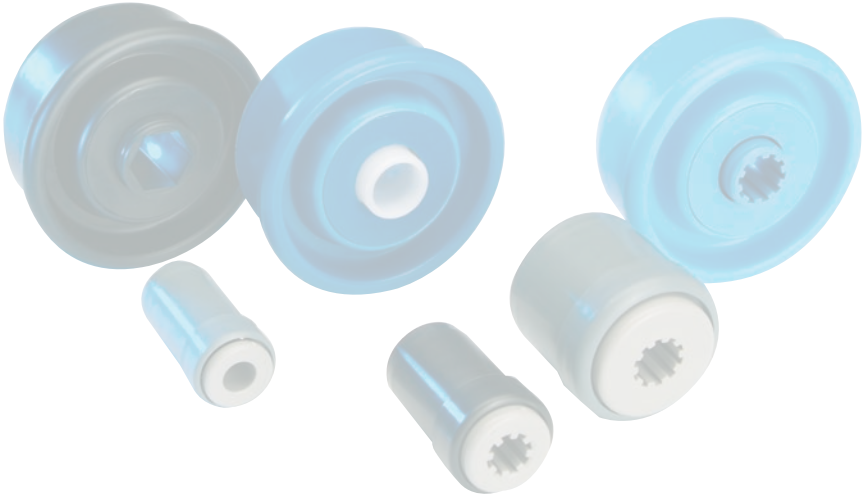
Carton [pcs.]



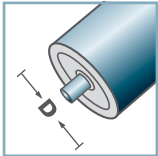


KTR-16.00/.01					
Type	Normal .00	Stainless .01	Di +0,15	Da	Load Rating C [daN]
KTR-16x1,0	x	x	14,1	15,9	3
Other dimensions on request!					

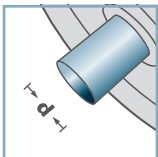
- ☛ Housing: Plastic
- ☛ Inner Race: Plastic
- ☛ Ball
 - ☛ 00: Steel
 - ☛ 01: 1.4034



KTR-16.00
KTR-16.01



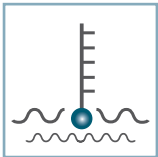
D [mm]
16



d [mm]
5; 6



C [daN]
3

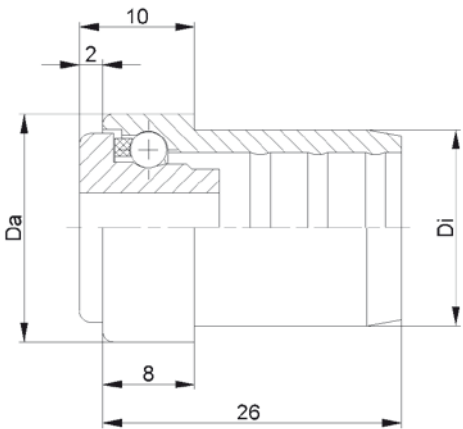


T [°C]
0° - 80°



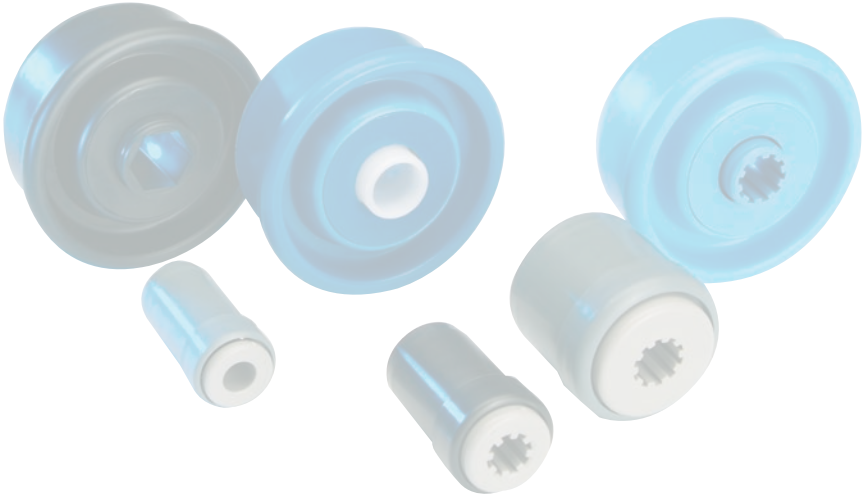
Carton [pcs.]

500

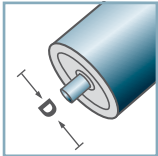


KTR-20.00/.01					
Type	Normal .00	Stainless .01	Di +0,15	Da	Load Rating C [daN]
KTR-20x1,0	x	x	18,1	19,9	5
KTR-20x1,5	x	x	17,1	19,9	5
Other dimensions on request!					

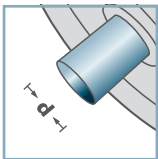
- ⌚ Housing: Plastic
- ⌚ Inner Race: Plastic
- ⌚ Ball Cage: Plastic
- ⌚ Ball
 - ⌚ 00: Steel
 - ⌚ 01: 1.4034



KTR-20.00
KTR-20.01



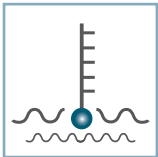
D [mm]
20



d [mm]
6; 8



C [daN]
5



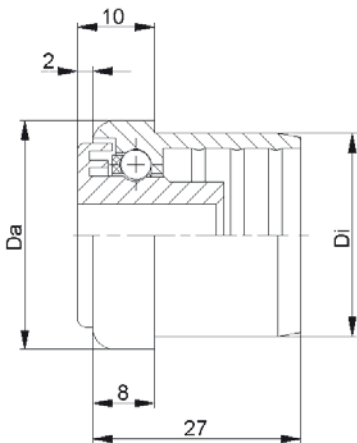
T [°C]
0° - 80°



Carton [pcs.]

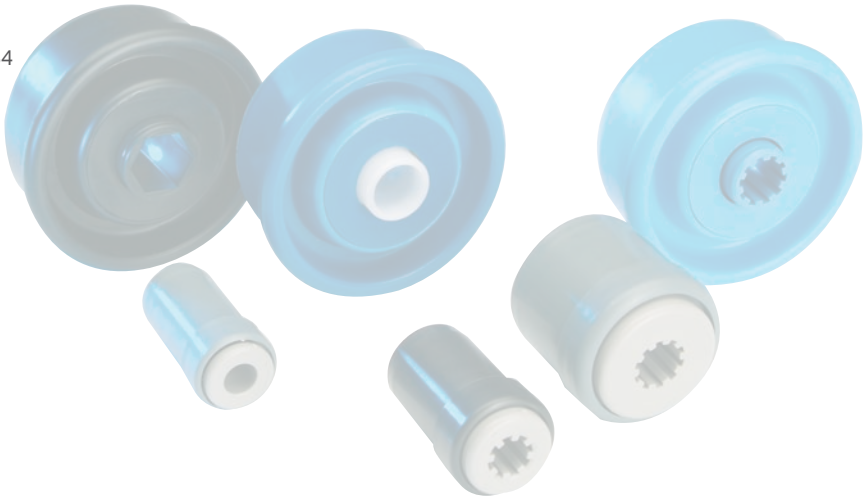
1000

KTR

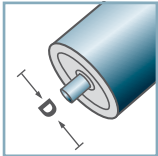


KTR-30.00/.01					
Type	Normal .00	Stainless .01	Di +0,25	Da	Load Rating C [daN]
KTR-30x1,0	x	x	28,1	29,9	7
KTR-30x1,5	x	x	27,1	29,9	7
KTR-30x1,8	x	x	26,5	29,9	7
KTR-30x2,0	x	x	26,35	29,9	7
Other dimensions on request!					

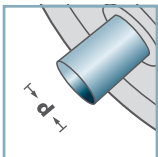
- ⌚ Housing: Plastic
- ⌚ Inner Race: Plastic
- ⌚ Ball Cage: Plastic
- ⌚ Ball
 - ⌚ 00: Steel
 - ⌚ 01: 1.4034



KTR-30.00
KTR-30.01



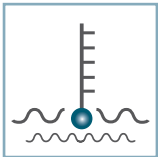
D [mm]
30



d [mm]
6; 8; 10



C [daN]
7



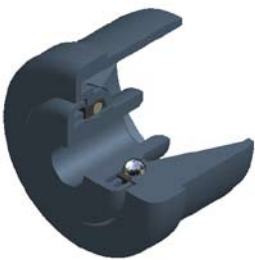
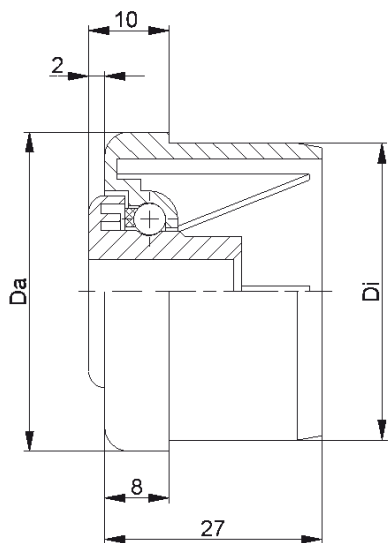
T [°C]
0° - 80°



Carton [pcs.]

250

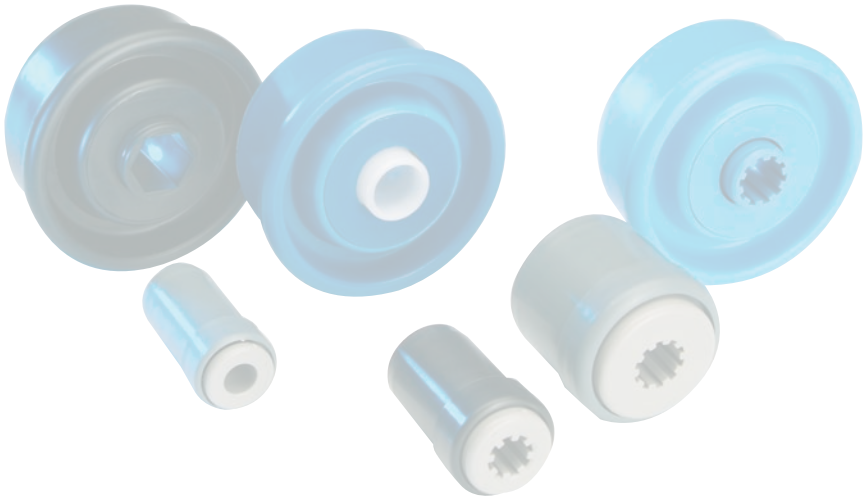
KTR



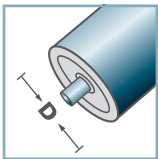
KTR-40.00/.01					
Type	Normal .00	Stainless .01	Di +0,25	Da	Load Rating C [daN]
KTR-40x1,5	x	x	37,1	39,9	7
KTR-40x2,3	x	x	35,5	39,9	7

Other dimensions on request!

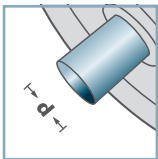
- ⌚ Housing: Plastic
- ⌚ Inner Race: Plastic
- ⌚ Ball Cage: Plastic
- ⌚ Ball
 - ⌚ 00: Steel
 - ⌚ 01: 1.4034



KTR-40.00
KTR-40.01



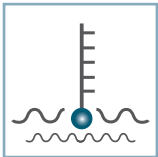
D [mm]
40



d [mm]
6; 8; 10



C [daN]
7



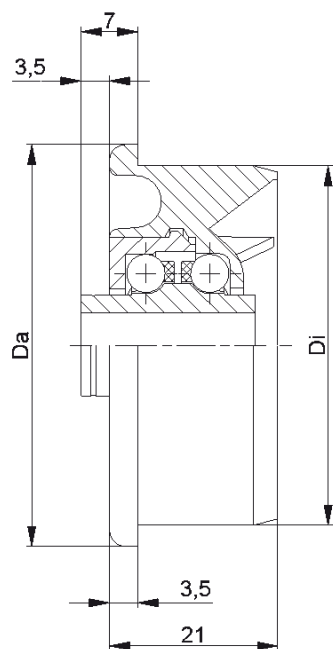
T [°C]
0° - 80°



Carton [pcs.]

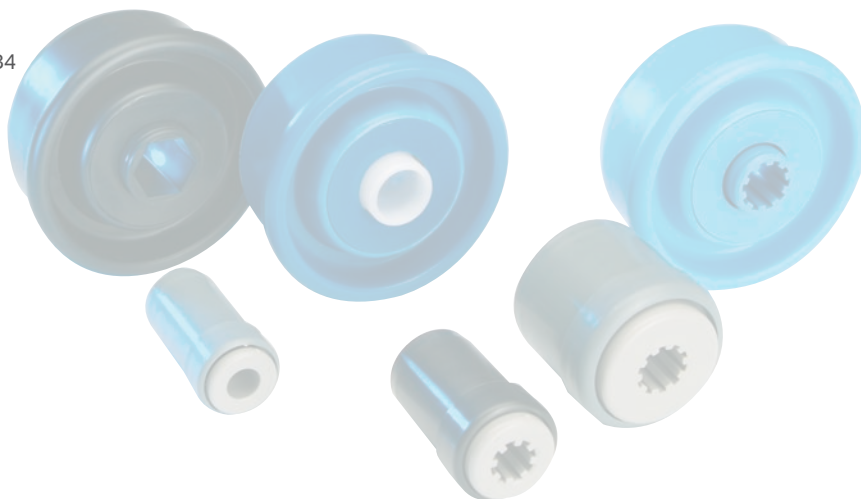
250

KTR

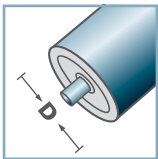


KTR-02/03					
Type	Normal .02	Stainless .03	Di +0,2	Da	Load Rating C [daN]
KTR-50x1,5	x	x	47,3	49,9	10
KTR-50x2,0	x	x	46,3	49,9	10
KTR-50x2,8	x	x	44,6	49,9	10
Other dimensions on request!					

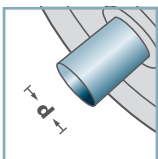
- ⌚ Housing: Plastic
- ⌚ Inner Race: Plastic
- ⌚ Bearing Cap: Plastic
- ⌚ Ball Cage: Plastic
- ⌚ Ball
 - ⌚ 02: Steel
 - ⌚ 03: 1.4034



KTR-02
KTR-03



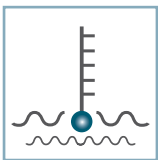
D [mm]
50



d [mm]
8; 10



C [daN]
10



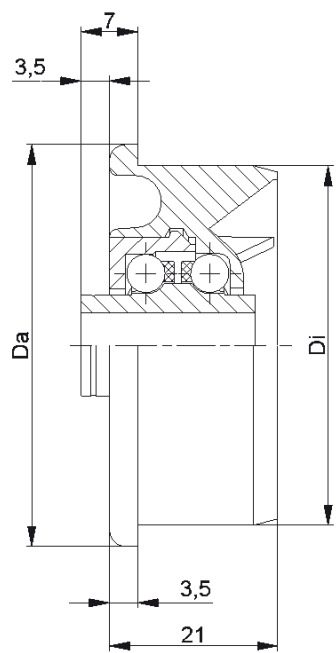
T [°C]
0° - 80°



Carton [pcs.]

50x1,5:	250
50x2,0:	300
50x2,8:	250

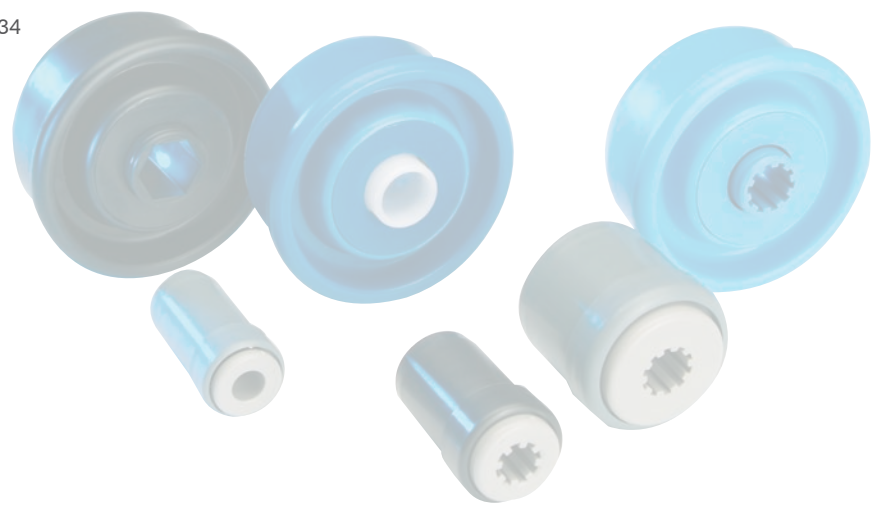
KTR



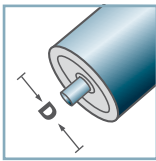
KTR-02/03					
Type	Normal .02	Stainless .03	Di +0,2	Da	Load Rating C [daN]
KTR-50x1,5	x	x	47,3	49,9	10
KTR-50x2,8	x	x	44,6	49,9	10

Other dimensions on request!

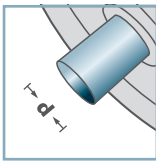
- ⌚ Housing: Plastic
- ⌚ Inner Race: Plastic
- ⌚ Bearing Cap: Plastic
- ⌚ Ball Cage: Plastic
- ⌚ Ball
 - ⌚ 02: Steel
 - ⌚ 03: 1.4034



KTR-02
KTR-03



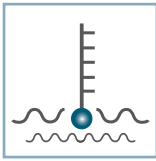
D [mm]
50



d [mm]
12; SW11



C [daN]
10



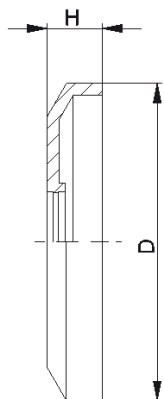
T [°C]
0° - 80°



Carton [pcs.]

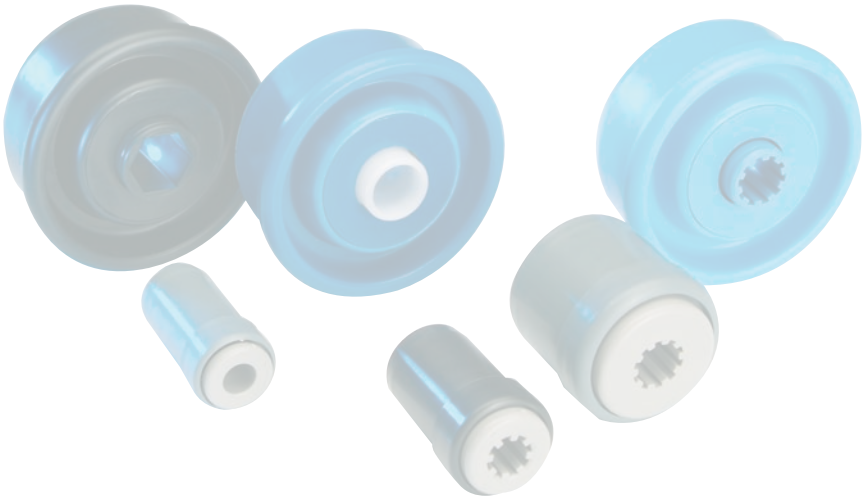
250



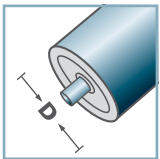


DK-KTR		
Type	D	H
DK-KTR-02	40,5	7
Other dimensions on request!		

Seal Bonnet: Plastic

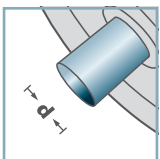


DK-KTR-02



D [mm]

-



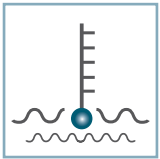
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



-

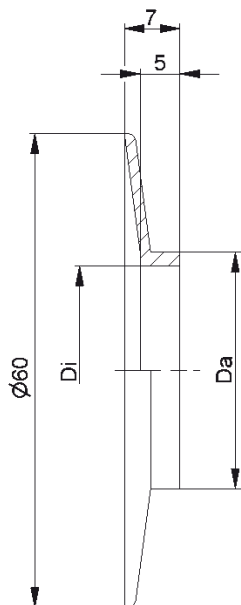


Carton [pcs.]

-

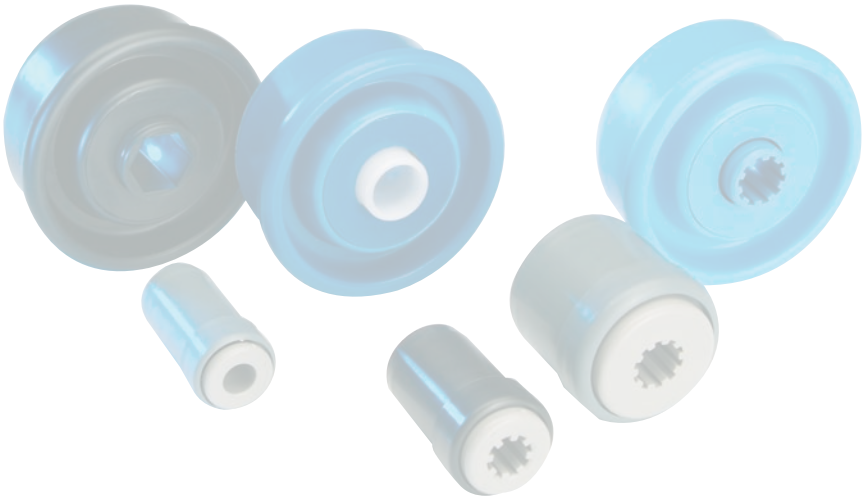


-

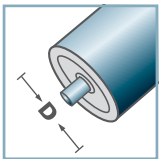


BS-		
Type	Di	Da
BS-30x1,0	28,1	29,9
BS-30x1,8	26,5	29,9
BS-40x1,5	37,1	39,9
BS-40x2,3	35,5	39,9
Other dimensions on request!		

 Wheel Flange: Plastic

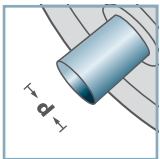


BS-



D [mm]

-



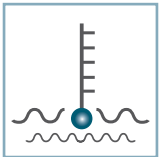
d [mm]

-



C [daN]

-



T [°C]

0° - 80°

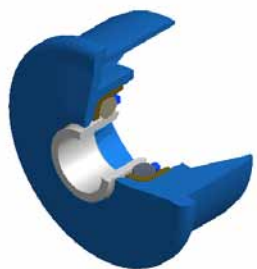
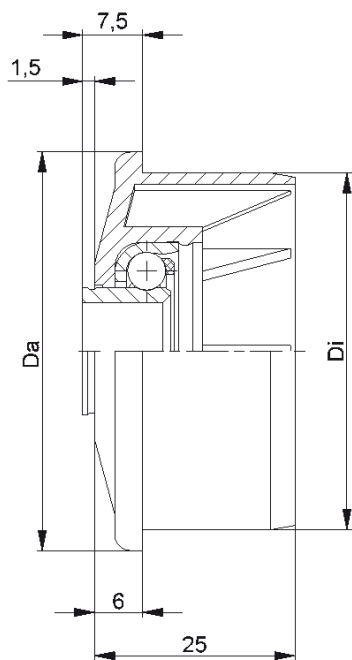


-



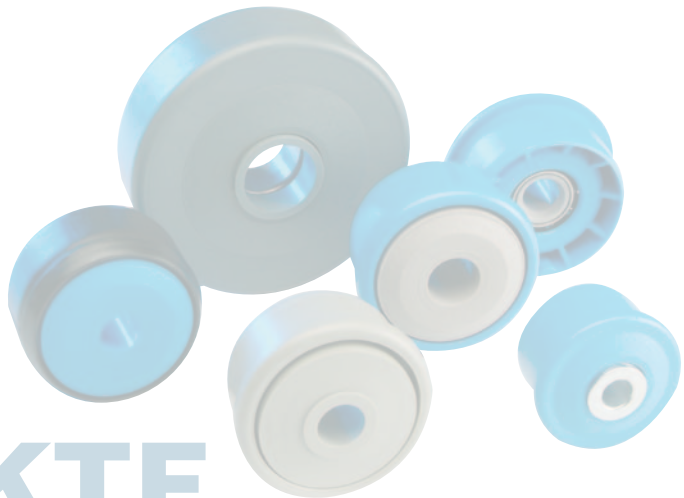
Carton [pcs.]



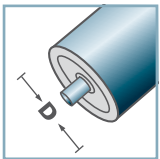


KTR-25			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-40x3,0.25	34,3	39,9	50
KTR-50x1,5.25	47,3	49,9	50
KTR-50x2,8.25	44,6	49,9	50
Other dimensions on request!			

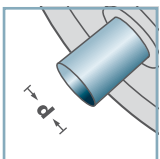
- ⚙ Housing: Plastic
- ⚙ Bearing RL-25
 - ⚙ Bearing Shell: Steel, Hardened
 - ⚙ Inner Race: Steel, Hardened, Zinc plated
 - ⚙ Ball Cage: Plastic
 - ⚙ Ball: Steel



KTR-25



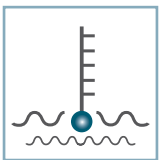
D [mm]
40 - 50



d [mm]
8; 10; 12



C [daN]
50



T [°C]
0° - 80°



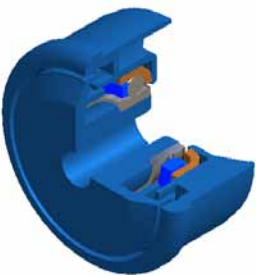
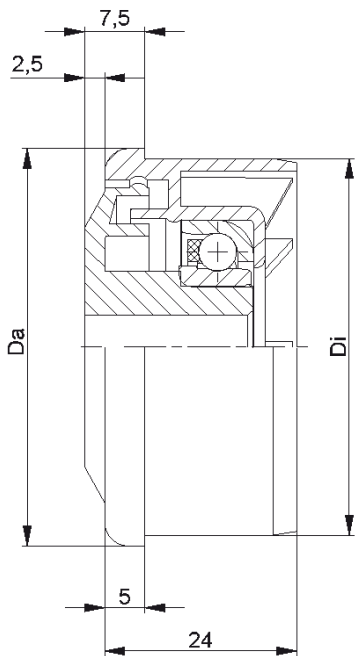
Vactra No. 2



Carton [pcs.]

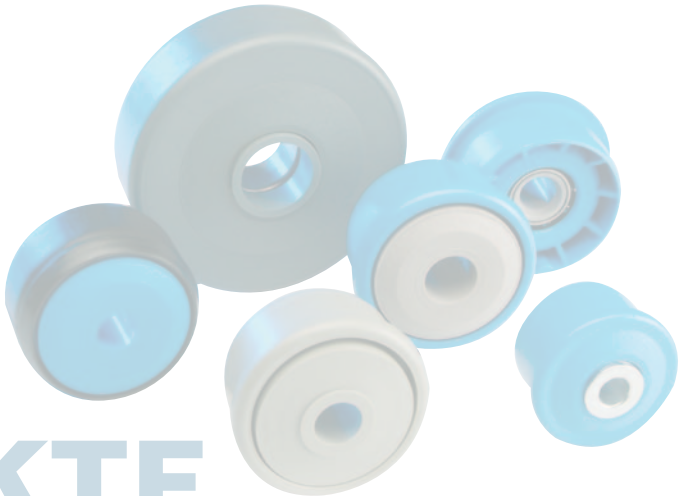
ø40: 400
ø50: 250

KTR/KTE

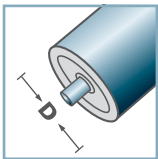


KTR-30			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-50x1,5.30	47,3	49,9	80
KTR-50x2,8.30	44,6	49,9	80
KTR-60x1,5.30	57,3	59,9	80
Other dimensions on request!			

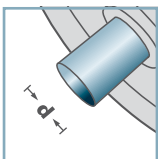
- ⚙ Housing: Plastic
- ⚙ Single Labyrinth Seal: Plastic
- ⚙ Bearing RL-30
 - ⚙ Bearing Shell: Steel, Hardened
 - ⚙ Inner Race: Steel, Hardened
 - ⚙ Ball Cage: Plastic
 - ⚙ Ball: Steel



KTR-30



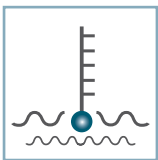
D [mm]
50 - 60



d [mm]
10; 12; 14; 15;
SW11



C [daN]
80



T [°C]
0° - 80°



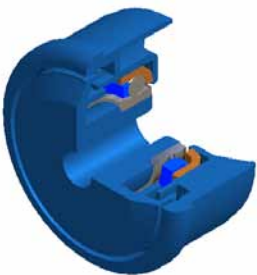
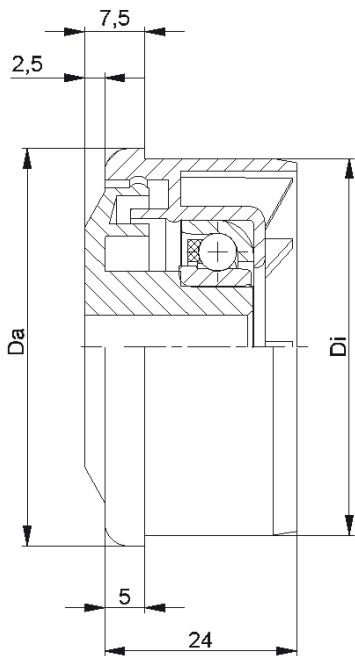
Vactra No. 2



Carton [pcs.]

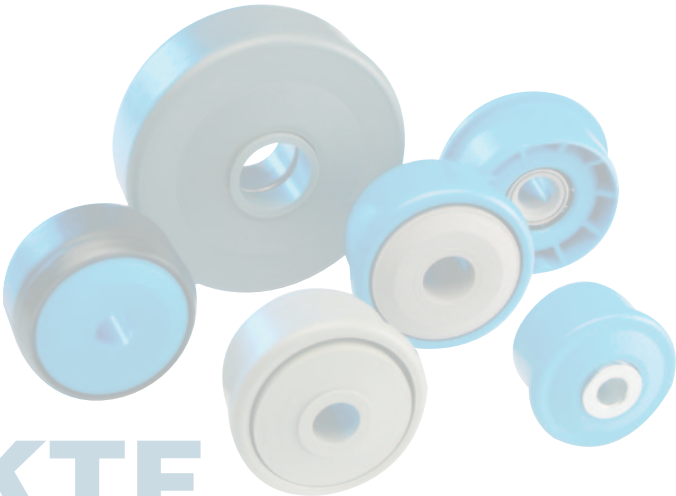
ø50: 250
ø60: 200

KTR/KTE

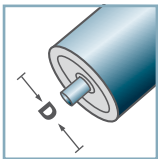


KTR-31			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-50x1,5.31	47,3	49,9	25
KTR-50x2,8.31	44,6	49,9	25
KTR-60x1,5.31	57,3	59,9	25
Other dimensions on request!			

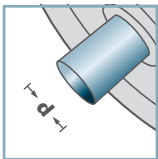
- ⚙ Housing: Plastic
- ⚙ Single Labyrinth Seal: Plastic
- ⚙ Bearing RL-31
 - ⚙ Bearing Shell: 1.4301
 - ⚙ Inner Race: 1.4305
 - ⚙ Ball Cage: Plastic
 - ⚙ Ball: 1.4301



KTR-31



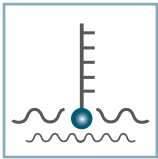
D [mm]
50 - 60



d [mm]
10; 12; 14; 15;
SW11



C [daN]
25



T [°C]
0° - 80°



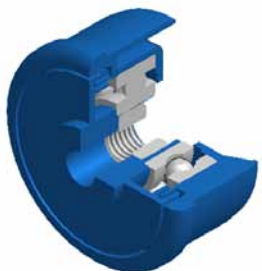
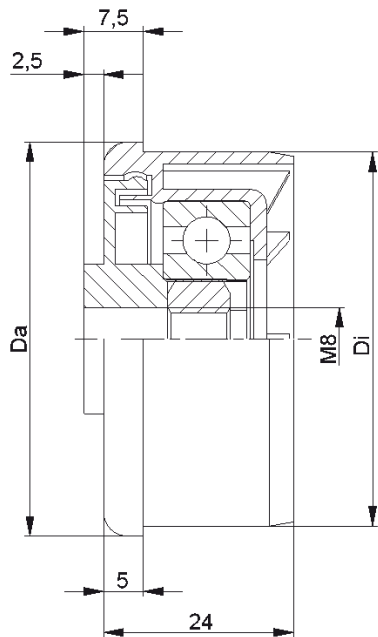
Vactra No. 2



Carton [pcs.]

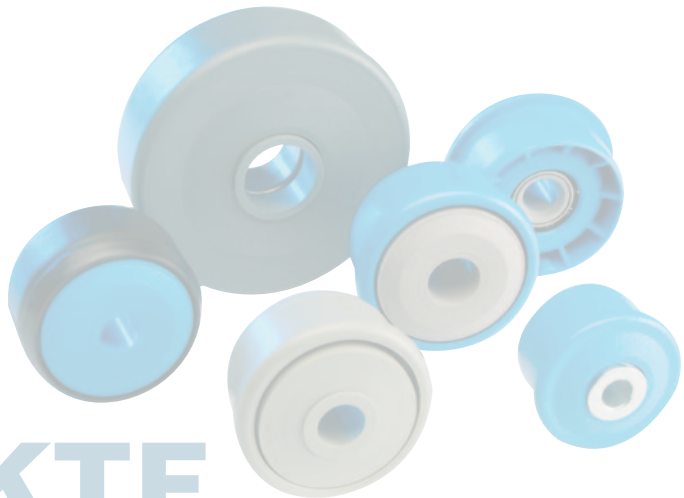
ø50: 250
ø60: 200

KTR/KTE

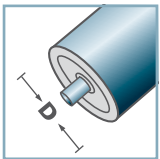


KTR-40.M8			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-50x1,5.40	47,3	49,9	80
KTR-60x1,5.40	57,3	59,9	80
Other dimensions on request!			

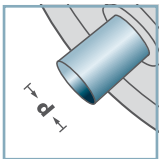
- ⌚ Housing: Plastic
- ⌚ Single Labyrinth Seal: Plastic
- ⌚ Bearing 6202
- ⌚ Hexagon Nut



KTR-40.M8



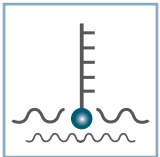
D [mm]
50 - 60



d [mm]
M8



C [daN]
80



T [°C]
0° - 80°



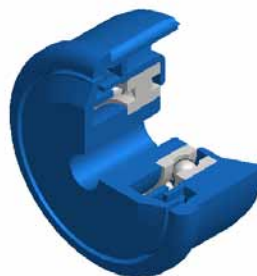
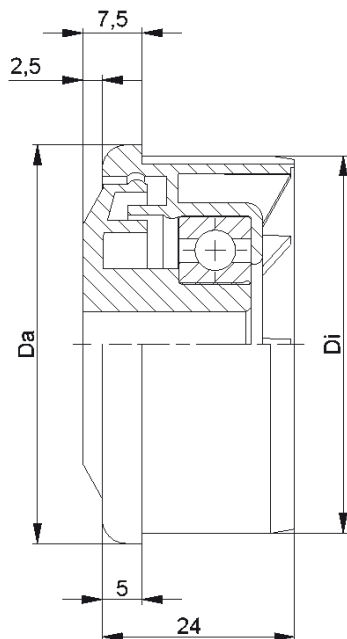
EP 2



Carton [pcs.]

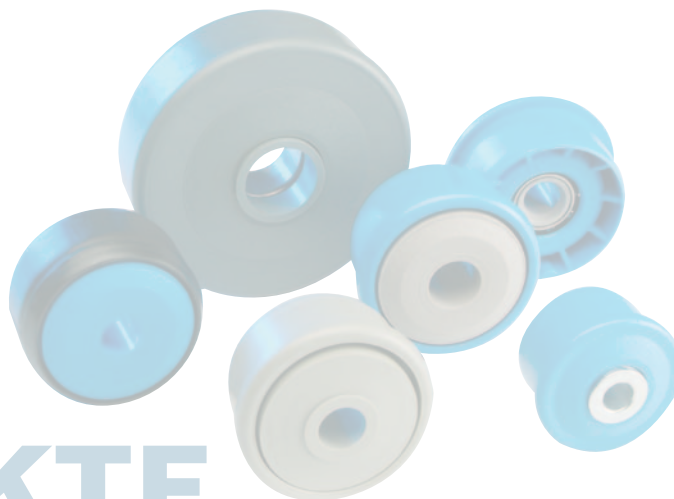
ø50: 250
ø60: 100

KTR/KTE

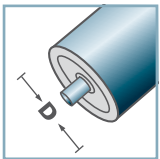


KTR-42			
Type	Di +0,25	Da	Load Rating C [daN]
KTR-40x1,5.42	37,2	39,9	80
KTR-50x1,5.42	47,3	49,9	80
KTR-50x2,0.42	46,3	49,9	80
KTR-50x2,8.42	44,6	49,9	80
KTR-60x1,5.42	57,3	59,9	80
KTR-60x2,0.42	56,3	59,9	80
Other dimensions on request!			

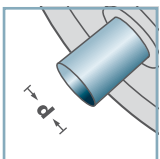
- ⚙ Housing: Plastic
- ⚙ Single Labyrinth Seal: Plastic
- ⚙ Bearing 6002



KTR-42



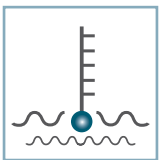
D [mm]
40 - 60



d [mm]
10; 12; 14; 15;
SW11



C [daN]
80



T [°C]
0° - 80°



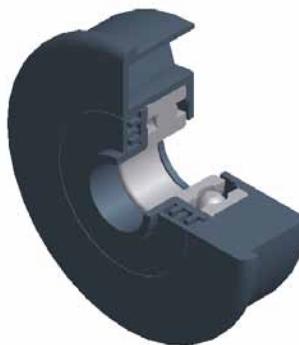
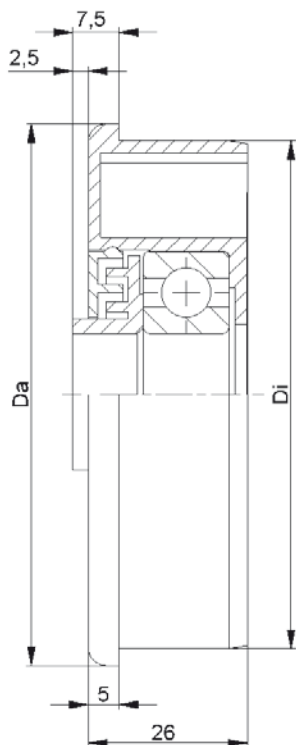
EP 2



Carton [pcs.]

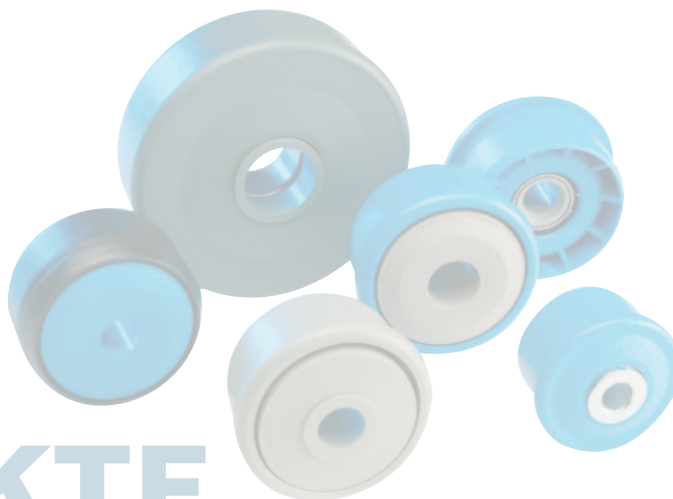
ø50: 250
ø60: 100

KTR/KTE

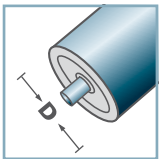


KTR-44			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-89x3,0.44	83,3	88,9	150
Other dimensions on request!			

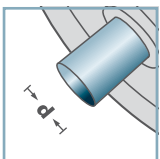
- ☛ Housing: Plastic
- ☛ Inner Labyrinth Seal: Plastic
- ☛ Outer Labyrinth Seal: Plastic
- ☛ Bearing 6204



KTR-44



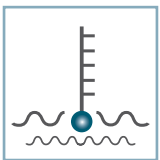
D [mm]
89



d [mm]
20



C [daN]
150



T [°C]
0° - 80°



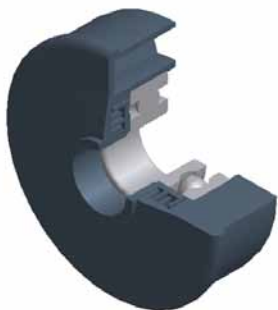
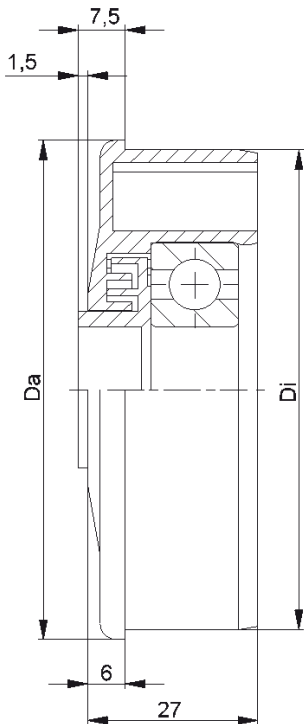
EP 2



Carton [pcs.]

80

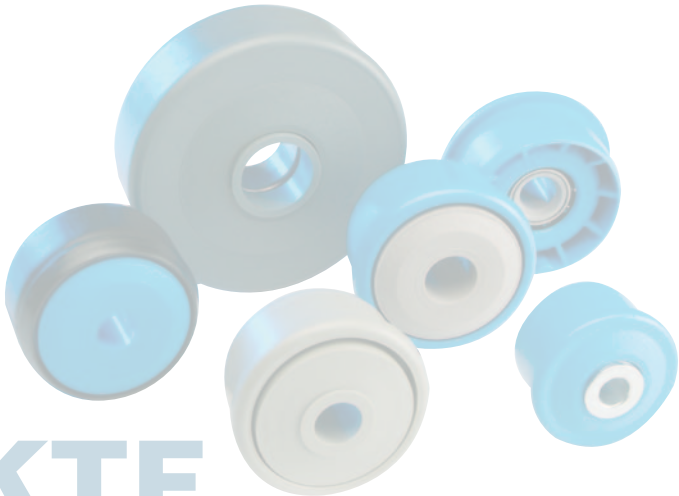
KTR/KTE



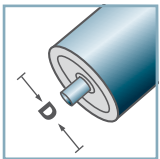
KTR-43/44			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-63,5x2,9.43/.44	58,0	63,4	150
KTR-80x2,0.43/.44	76,4	79,9	150

Other dimensions on request!

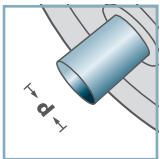
- ⚙ Housing: Plastic
- ⚙ Multiple Labyrinth Seal: Plastic
- ⚙ Bearing 6303/6204



KTR-43/44



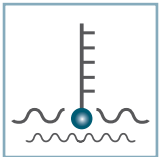
D [mm]
63,5 - 80



d [mm]
6303: 17
6204: 20



C [daN]
150



T [°C]
0° - 80°



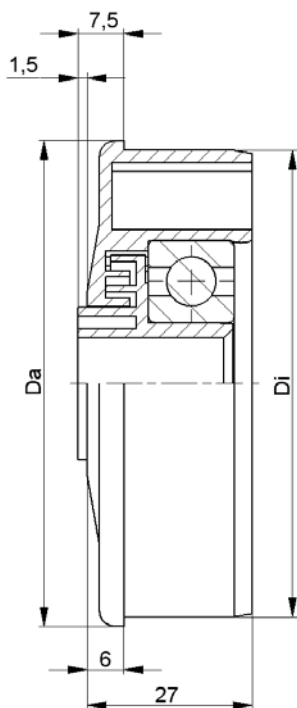
EP 2



Carton [pcs.]

100

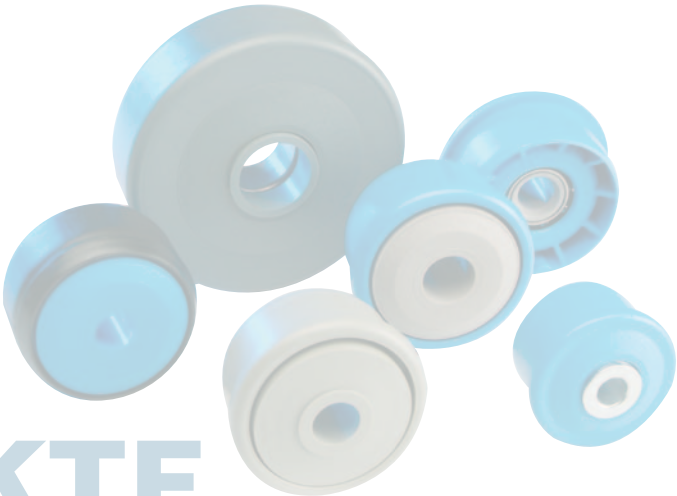
KTR/KTE



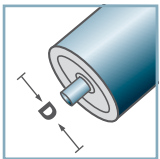
KTR-43/44			
Type	Di +0,2	Da	Load Rating C [daN]
KTR-63,5x2,9.43/.44	58,0	63,4	150
KTR-80x2,0.43/.44	76,4	79,9	150

Other dimensions on request!

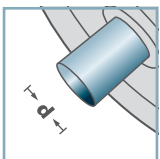
- ⚙ Housing: Plastic
- ⚙ Multiple Labyrinth Seal: Plastic
- ⚙ Bearing 6303/6204



KTR-43/44



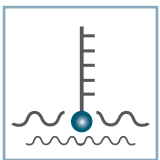
D [mm]
63,5 - 80



d [mm]
6303: 12
6204: 15



C [daN]
150



T [°C]
0° - 80°



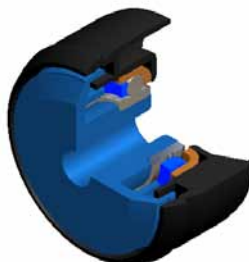
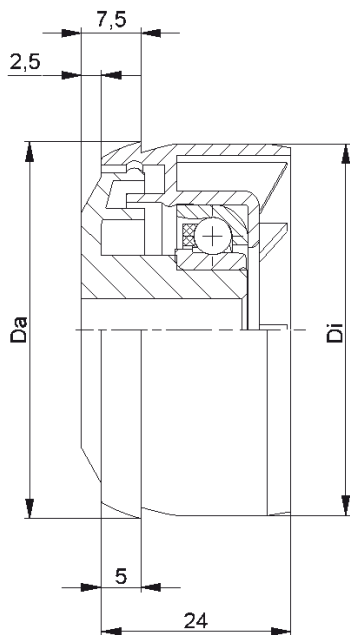
EP 2



Carton [pcs.]

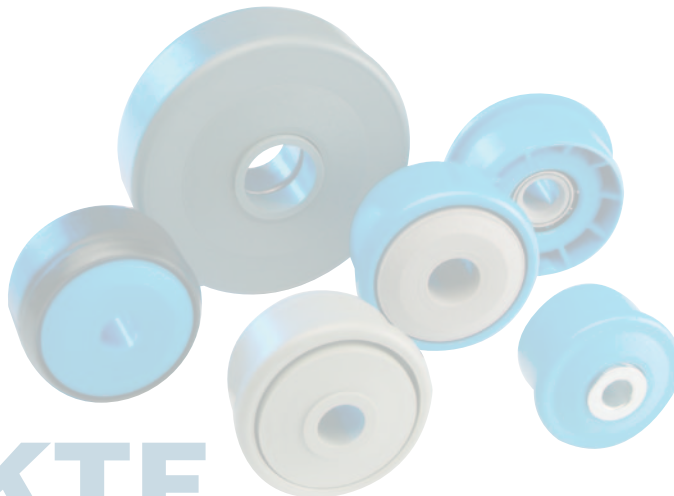
100

KTR/KTE

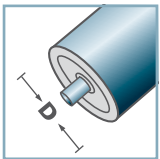


KTE-30			
Type	Di +0,3	Da	Load Rating C [daN]
KTE-50x1,5.30	47,1	47,9	80
Other dimensions on request!			

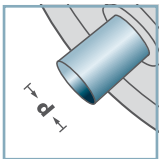
- ⚙ Housing: Plastic
- ⚙ Single Labyrinth Seal: Plastic
- ⚙ Bearing RL-30
 - ⚙ Bearing Shell: Steel, Hardened
 - ⚙ Inner Race: Steel, Hardened
 - ⚙ Cage: Plastic
 - ⚙ Ball: Steel



KTE-30



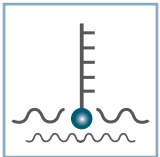
D [mm]
50



d [mm]
10; 12; 14; 15;
SW11



C [daN]
80



T [°C]
0° - 80°



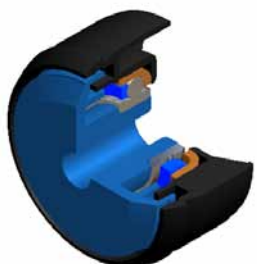
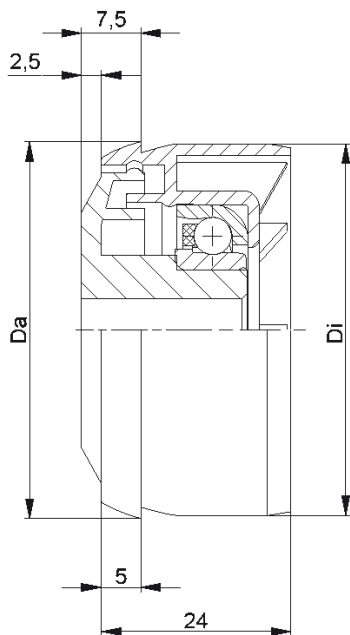
Vactra No. 2



Carton [pcs.]

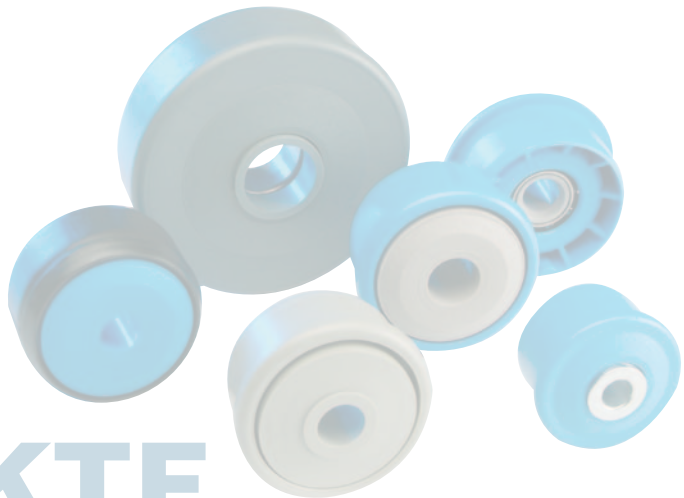
250

KTR/KTE

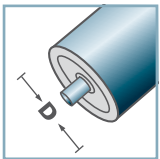


KTE-31			
Type	Di +0,3	Da	Load Rating C [daN]
KTE-50x1,5,31	47,1	47,9	25
Other dimensions on request!			

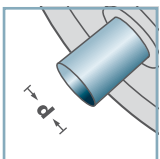
- ⌚ Housing: Plastic
- ⌚ Single Labyrinth Seal: Plastic
- ⌚ Bearing RL-31
 - ⌚ Bearing Shell: 1.4301
 - ⌚ Inner Race: 1.4305
 - ⌚ Cage: Plastic
 - ⌚ Ball: 1.4301



KTE-31



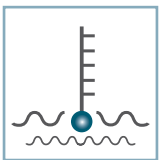
D [mm]
50



d [mm]
10; 12; 14; 15;
SW11



C [daN]
25



T [°C]
0° - 80°



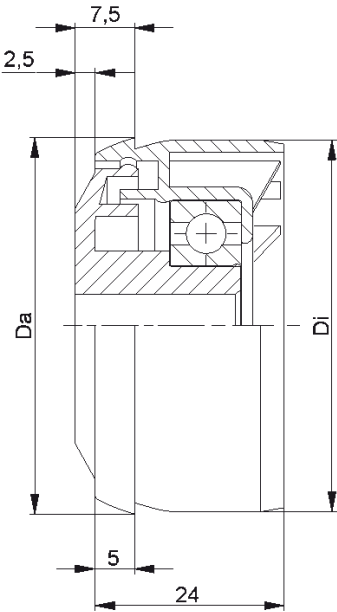
Vactra No. 2



Carton [pcs.]

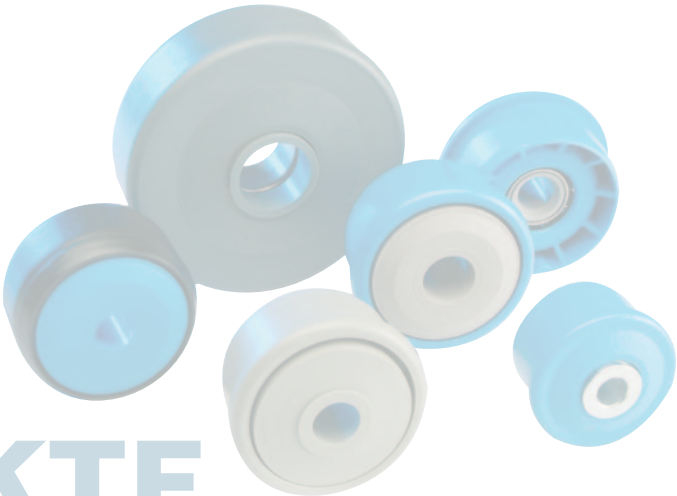
250

KTR/KTE

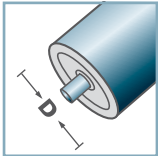


KTE-42			
Type	Di +0,3	Da	Load Rating C [daN]
KTE-50x1,5.42	47,1	47,9	80
Other dimensions on request!			

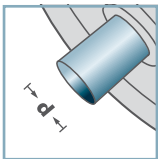
- ⚙ Housing: Plastic
- ⚙ Single Labyrinth Seal: Plastic
- ⚙ Bearing 6002



KTE-42



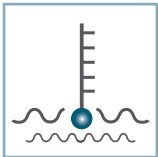
D [mm]
50



d [mm]
10; 12; 14; 15;
SW11



C [daN]
80



T [°C]
0° - 80°



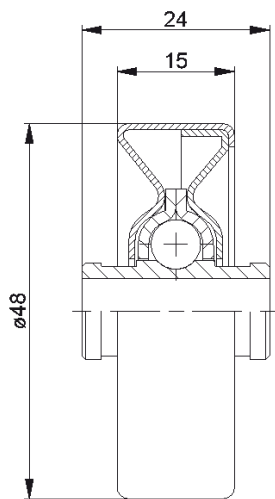
EP 2



Carton [pcs.]

250

KTR/KTE

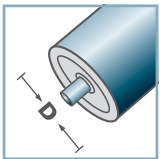


SLR	
Type	Load Rating C [daN]
SLR-480	20
Other dimensions on request!	

 Skate Wheel: Steel

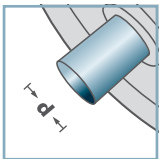


SLR-



D [mm]

-



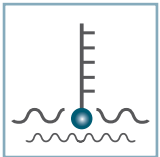
d [mm]

6; 8



C [daN]

20



T [°C]

-30° - 140°



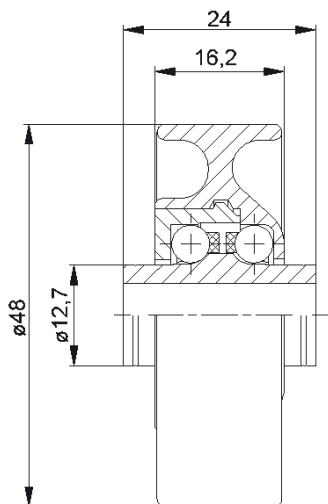
-



Carton [pcs.]

250

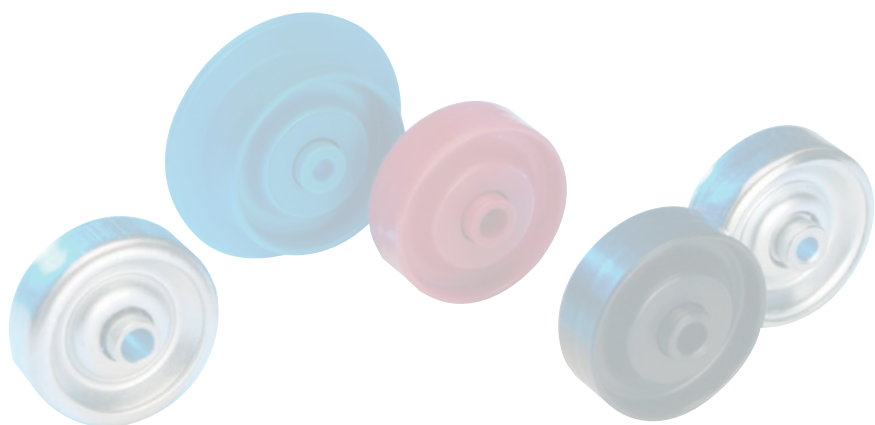
KLR/SLR/SR



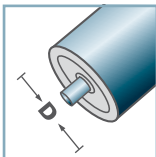
KLR-02/03			
Type	Normal	Stainless	Load Rating
	.02	.03	C [daN]
KLR-480	x	x	10

Other dimensions on request!

- Housing: Plastic
- Inner Race: Plastic
- Bearing Cap: Plastic
- Ball Cage: Plastic
- Ball
 - 02: Steel
 - 03: 1.4034

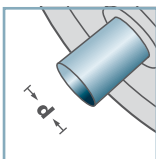


KLR-02
KLR-03



D [mm]

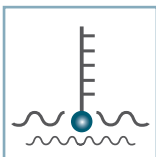
-



d [mm]
6; 8



C [daN]
10



T [°C]
0° - 80°



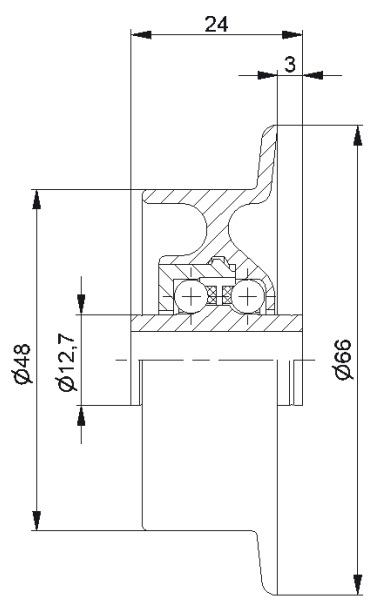
-



Carton [pcs.]

250

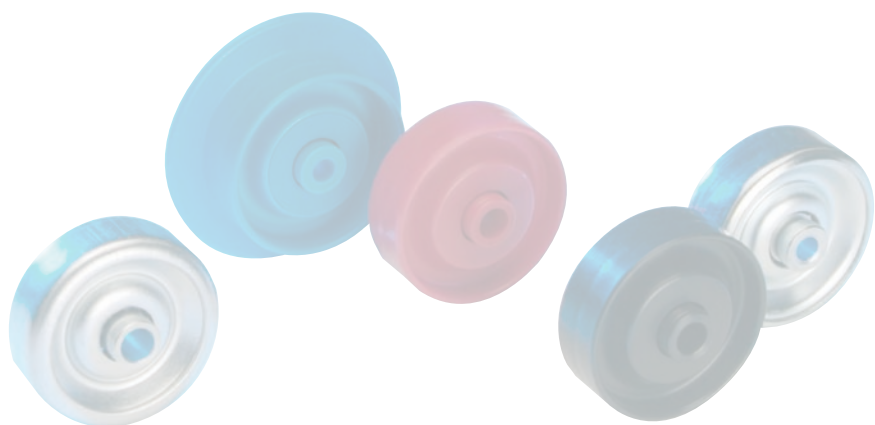
KLR/SLR/SR



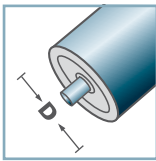
SR-02/03			
Type	Normal	Stainless	Load Rating
	.02	.03	C [daN]
SR-480	x	x	10

Other dimensions on request!

- Housing: Plastic
- Inner Race: Plastic
- Bearing Cap: Plastic
- Ball Cage: Plastic
- Ball
 - 02: Steel
 - 03: 1.4034

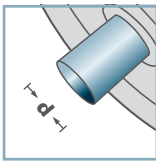


SR-02
SR-03



D [mm]

-



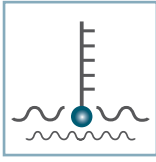
d [mm]

6; 8



C [daN]

10



T [°C]

0° - 80°



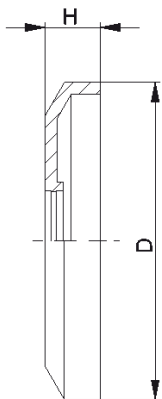
-



Carton [pcs.]

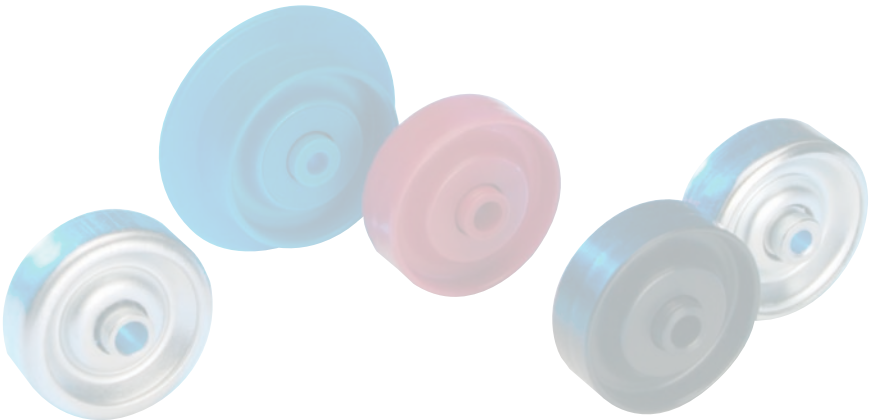
250

KLR/SLR/SR

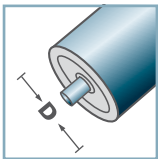


DK-KLR		
Type	D	H
DK-KLR-02	40,5	7
Other dimensions on request!		

Seal Bonnet: Plastic

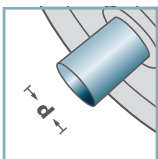


DK-KLR-02



D [mm]

-



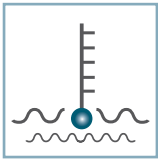
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



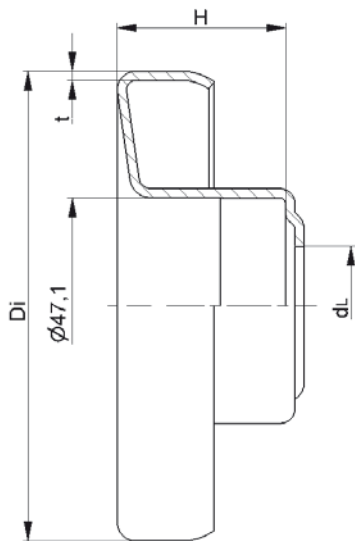
-



Carton [pcs.]



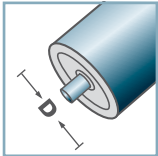
KLR/SLR/SR



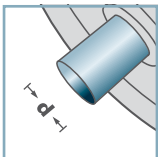
LH-6204				
Type	Di	H	dL	t
LH-63,5x1,75/6204	60,5	33	26	1,5
LH-80x2,0/6204	76,5	36,5	26	2,0
LH-80x3,0/6204	74,5	36,5	26	2,0
LH-89x3,0/6204	83,5	36,5	26	2,0
LH-108x2,5/6204	103,3	36,5	26	2,0
LH-108x3,25/6204	102,1	36,5	26	2,0
LH-133x3,6/6204	126,3	36,5	26	2,5
Other dimensions on request!				

 Retainer for Standard Bearings: Steel

LH-6204



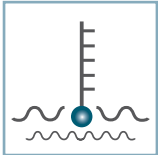
D [mm]
63,5 - 133



d [mm]
20



C [daN]
-



T [°C]
-

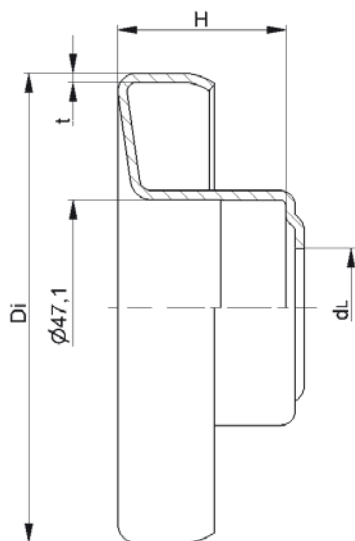


6204:
D47, d20, H14



Skeleton Container [pcs.]
ø63,5: 6000
ø80: 3500
ø89: 3100
ø108: 2100
ø133: 1150

LH/FL

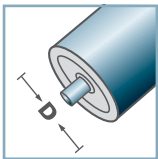


LH-6204 N				
Type	Di	H	dL	t
LH-63,5x1,75/6204N	60,5	31,8	21	1,5
LH-89x3,0/6204N *	83,7	33,5	21	1,5
LH-108x3,25/6204N	102,1	36,5	21	2,0

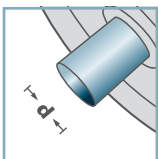
Other dimensions on request!

- ⚙ Retainer for Standard Bearings: Steel
- ⚙ *Alternative: Stainless

LH-6204 N



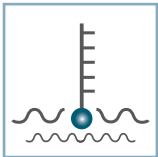
D [mm]
63,5 - 108



d [mm]
20



C [daN]
-



T [°C]
-

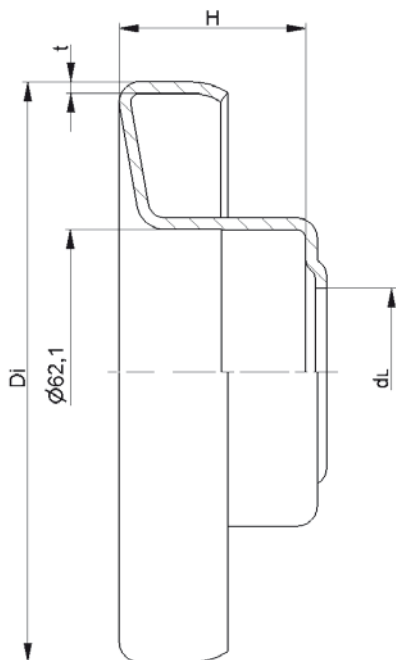


6204:
D47, d20, H14



Skeleton Container [pcs.]
ø63,5: 6000
ø89: 3100
ø108: 2100

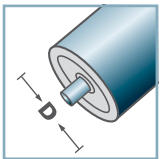
LH/FL



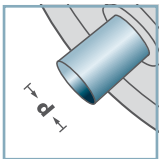
LH-6305				
Type	Di	H	dL	t
LH-89x3,0/6305	83,5	40,5	36,5	2,0
LH-108x2,5/6305	103,3	40,5	36,5	2,0
LH-108x3,25/6305	102,1	40,5	36,5	2,0
LH-133x3,6/6305	126,3	40,5	36,5	2,5
LH-159x4,5/6305	150,5	40,5	36,5	2,5
Other dimensions on request!				

 Retainer for Standard Bearings: Steel

LH-6305



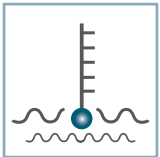
D [mm]
89 - 159



d [mm]
25



C [daN]
-



T [°C]
-

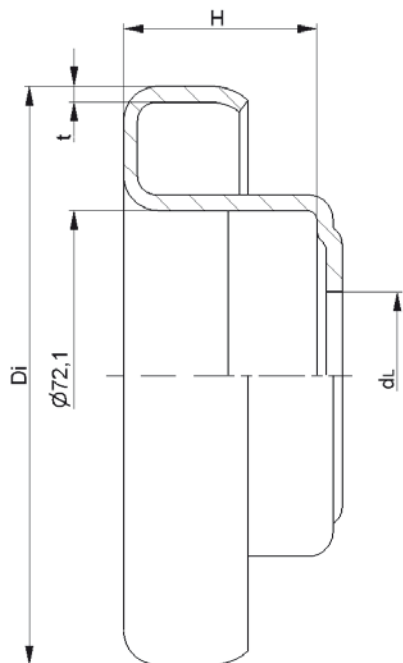


6305:
D62, d25, H17



Skeleton Container [pcs.]
ø89: 2600
ø108: 1900
ø133: 1150

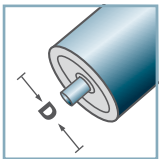
LH/FL



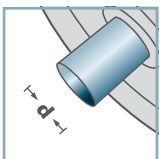
LH-6306				
Type	Di	H	dL	t
LH-108x3,25/6306	102,1	42	36,5	3,0
LH-133x3,6/6306	126,3	42	36,5	3,5
LH-159x4,5/6306	150,5	42	36,5	2,5
Other dimensions on request!				

 Retainer for Standard Bearings: Steel

LH-6306



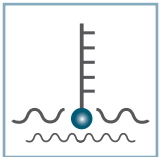
D [mm]
108 - 159



d [mm]
30



C [daN]
-



T [°C]
-



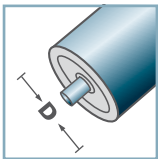
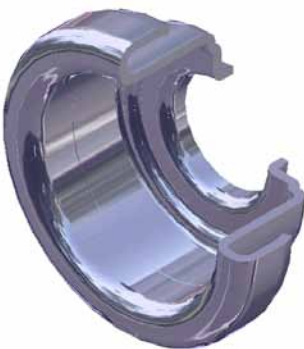
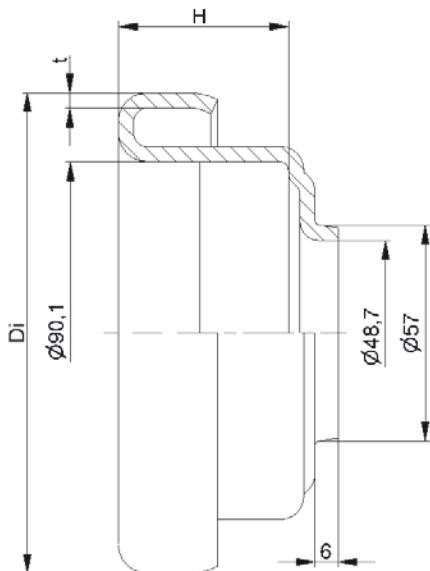
6306:
D72, d30, H19



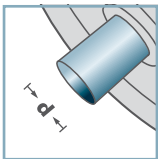
Skeleton Container [pcs.]
ø108: 1700
ø133: 1000

LH/FL

LH-6308



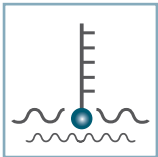
D [mm]
133 - 159



d [mm]
40



C [daN]
-



T [°C]
-



6308:
D90, d40, H23

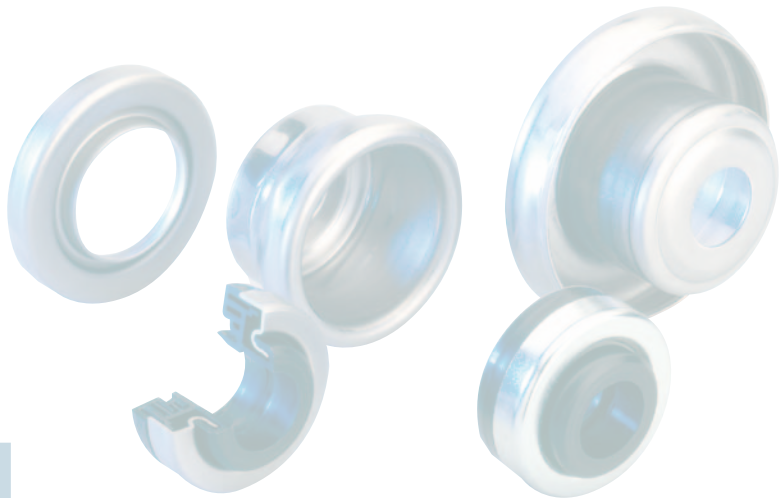


Skeleton Container [pcs.]
ø133: 800
ø159: 600

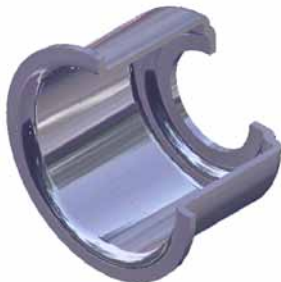
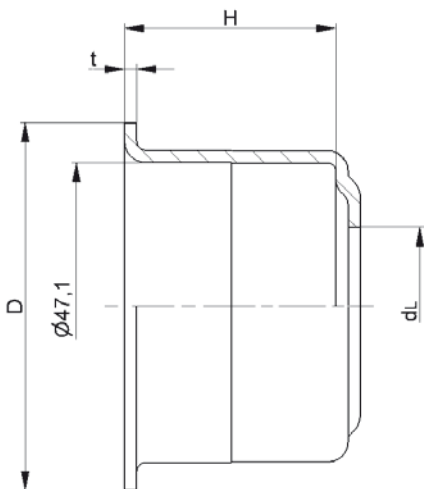
LH-6308			
Type	Di	H	t
LH-133x3,6/6308	126,3	44,6	4,0
LH-159x4,5/6308	150,8	44,6	4,0

Other dimensions on request!

Retainer for Standard Bearings: Steel



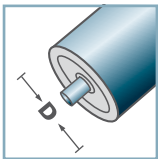
LH/FL



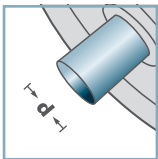
FL-6204				
Type	D	H	dL	t
FL-60x3,0/6204	58,1	34	26	2,0
FL-63,5x2,9/6204	60,0	34,5	26	2,0
FL-70/6204	67,5	34,5	26	2,0
FL-76/6204	73,5	34,5	26	2,0
Other dimensions on request!				

 Retainer for Standard Bearings: Steel

FL-6204



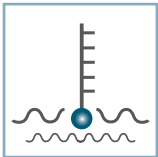
D [mm]
60 - 76



d [mm]
20



C [daN]
-



T [°C]
-

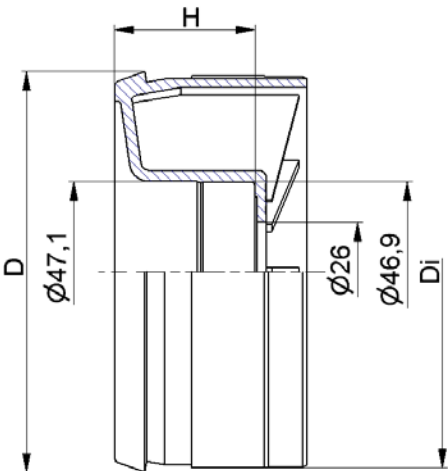


6204:
D47, d20, H14



Skeleton Container [pcs.]
ø60: 4000
ø63,5: 4000
ø70: 2000
ø76: 2000

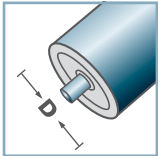
LH/FL



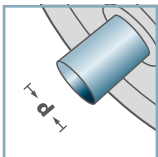
KLH-6204			
Type	Di	H	D
KLH-89x3,0/6204	83,2	36,5	85,3
KLH-108x3,0/6204	102,2	36,5	104,3
Other dimensions on request!			

Retainer for Standard Bearings: Plastic

KLH-6204



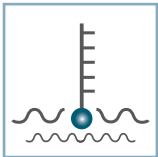
D [mm]
89 - 108



d [mm]
20



C [daN]
-



T [°C]
100°

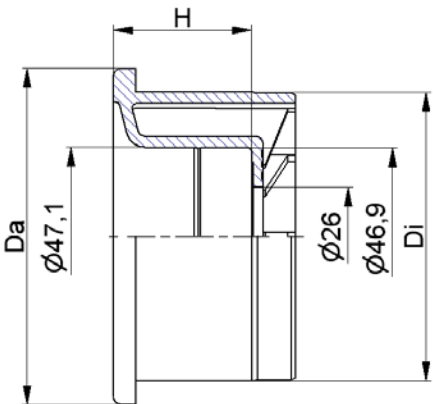


6204:
D47, d20, H14



Skeleton
Container [pcs.]

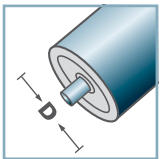
LH/FL



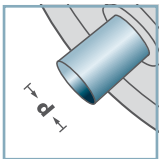
KLH-6204			
Type	Da	Di	H
KLH-90x7,0/6204	88,8	76,3	36,5
Other dimensions on request!			

 Retainer for Standard Bearings: Plastic

KLH-6204



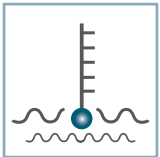
D [mm]
90



d [mm]
20



C [daN]
-



T [°C]
100°

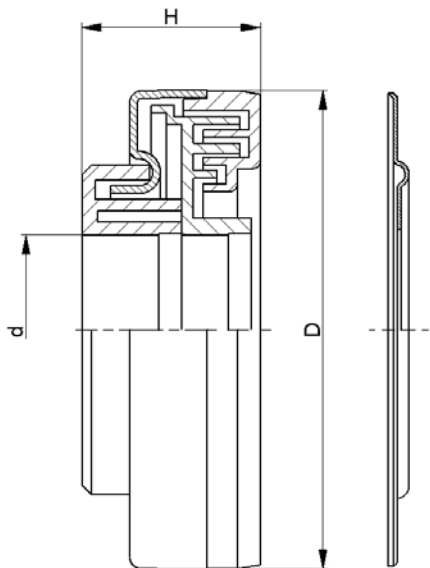


6204:
D47, d20, H14



Skeleton Container [pcs.]

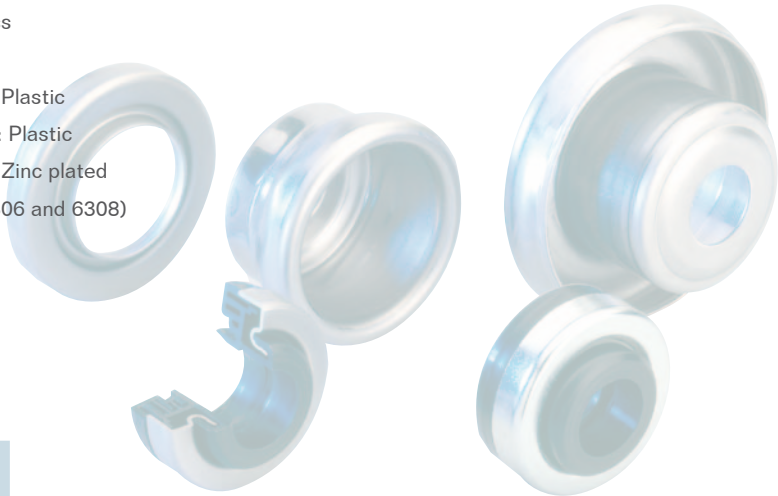
LH/FL



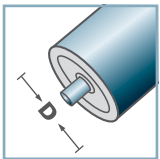
LH-			
Type	D	H	d
LH-6303	47	22,5	17
LH-6204	47	22,5	20
LH-6204 N *	47	20,0	20
LH-6305	62	23,5	25
LH-6206	62	23,5	30
LH-6306	72	24,5	30
LH-6308	90	23,1	40

Other dimensions on request!

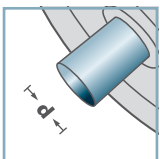
- Seal Bonnet: Steel, Zinc plated
- *Alternative: Stainless
- Rain Cap: Plastic
- Inner Labyrinth Seal: Plastic
- Outer Labyrinth Seal: Plastic
- Sheet Gasket: Steel, Zinc plated
(not available with 6306 and 6308)



LH-



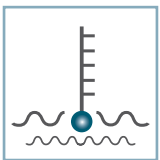
D [mm]



d [mm]
17 - 40



C [daN]



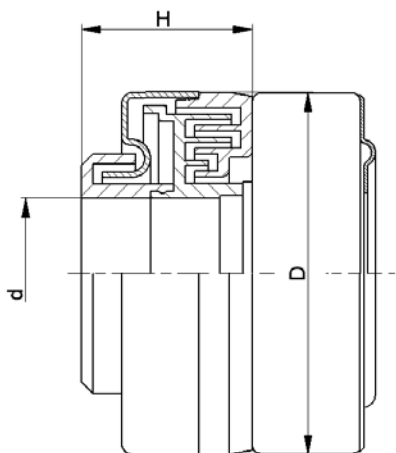
T [°C]
0° - 80°



Carton [pcs.]

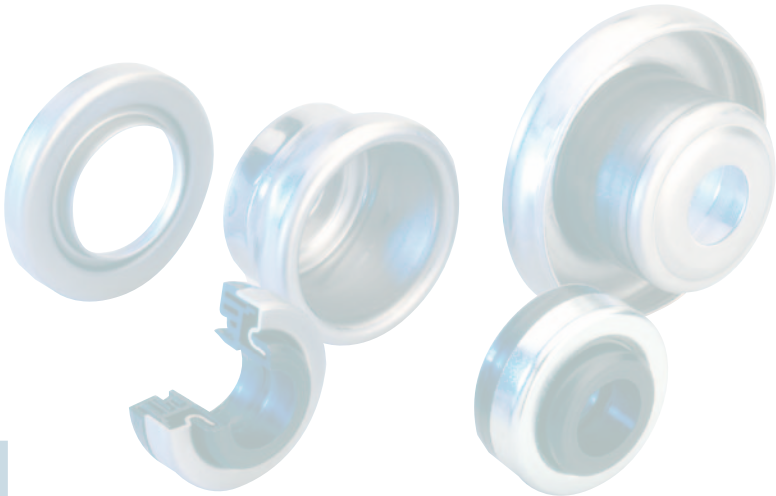
6204: 500
6305: 500

LH/FL

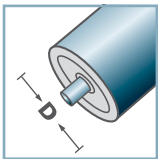


LH- mounted, greased			
Type	D	H	d
LH-6303 M	47	22,5	17
LH-6204 M	47	22,5	20
Other dimensions on request!			

- ☛ Seal Bonnet: Steel, Zinc plated
- ☛ Rain Cap: Plastic
- ☛ Inner Labyrinth Seal: Plastic
- ☛ Outer Labyrinth Seal: Plastic
- ☛ Sheet Gasket: Steel, Zinc plated
- ☛ Grease: EP2

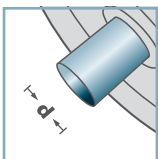


LH-



D [mm]

-

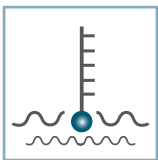


d [mm]
17, 20



C [daN]

-



T [°C]
0° - 80°



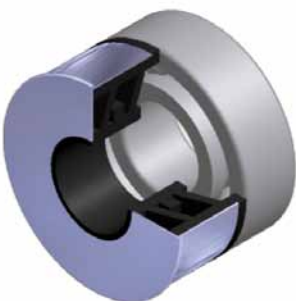
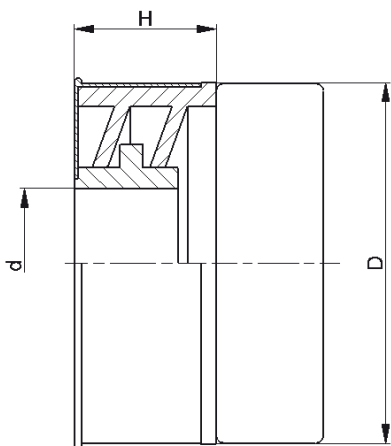
-



Carton [pcs.]

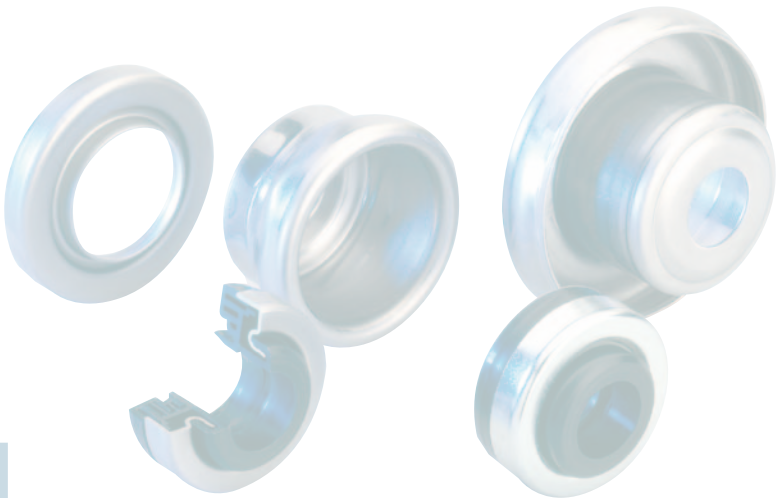


LH/FL

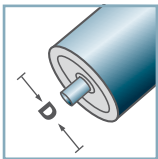


UF.			
Type	D	H	d
UF-6204	47	18,5	20
Other dimensions on request!			

- Seal Bonnet: Steel, Zinc plated
- Inner Labyrinth Seal: Plastic
- Outer Labyrinth Seal: Plastic

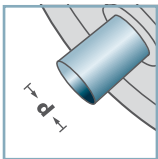


UF.



D [mm]

-



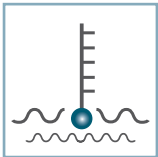
d [mm]

20



C [daN]

-



T [°C]

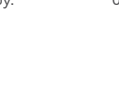
0° - 80°



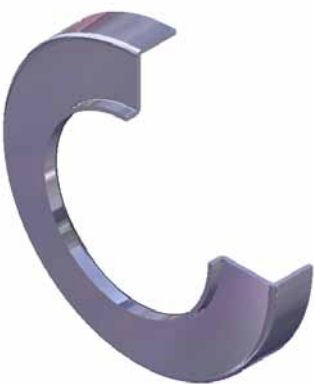
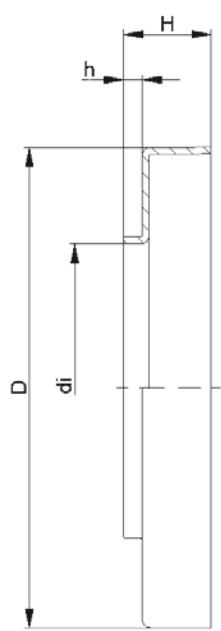
-



Carton [pcs.]

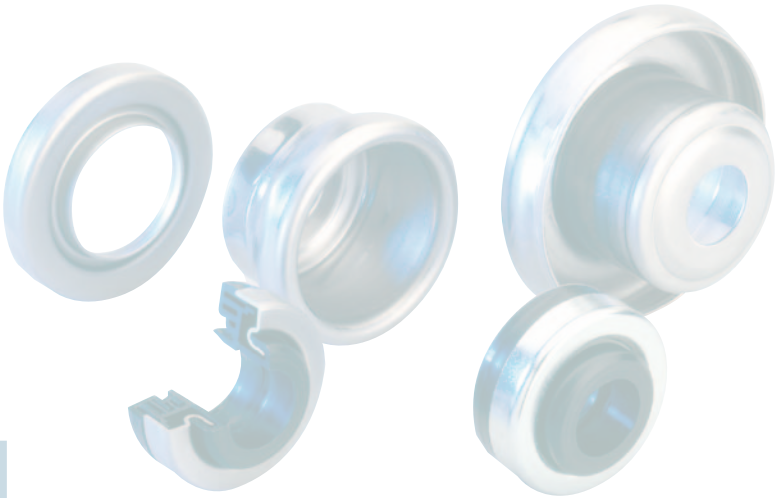


LH/FL

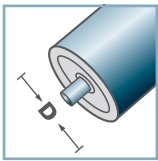


ST-				
Type	D	di	H	h
ST-6204	47,5	27,4	11,9	2,4
ST-6305	62,5	37,4	11,4	2,4
ST-6306	72,5	37,4	11,4	1,4
Other dimensions on request!				

Seal Bonnet: Steel

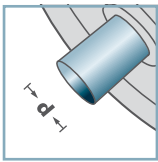


ST-



D [mm]

-



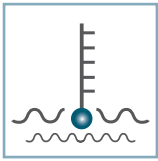
d [mm]

-



C [daN]

-



T [°C]

-



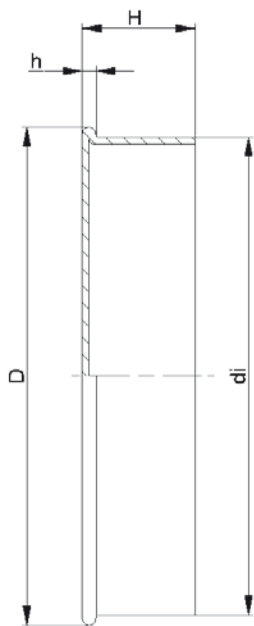
-



Carton [pcs.]

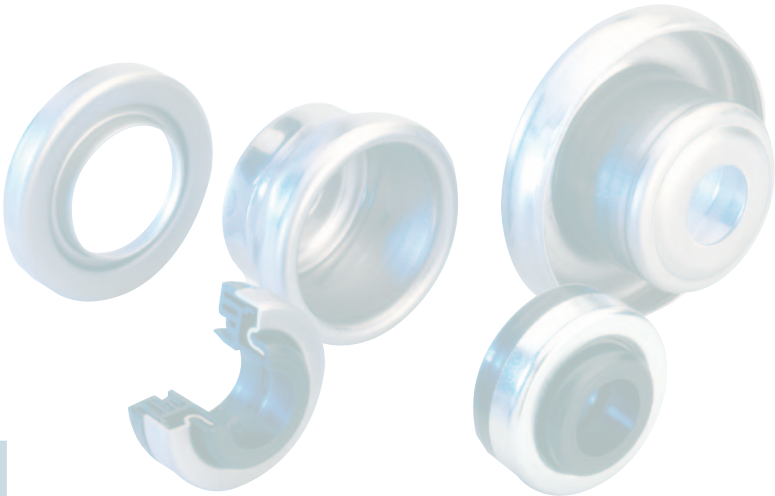


LH/FL

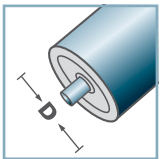


ST- closed				
Type	D	di	H	h
ST-6204	50	47,4	14,7	1,8
ST-6305	65	62,4	14,7	1,8
ST-6306	77	72,4	12,5	1,8
Other dimensions on request!				

Seal Bonnet: Steel

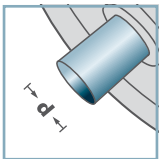


ST-



D [mm]

-



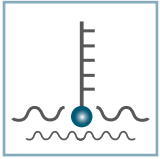
d [mm]

-



C [daN]

-



T [°C]

-



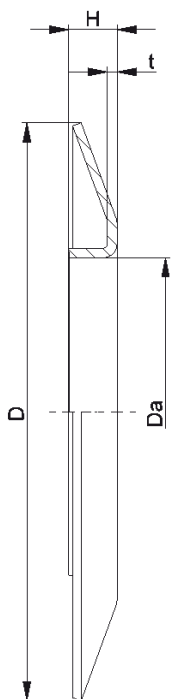
-



Carton [pcs.]

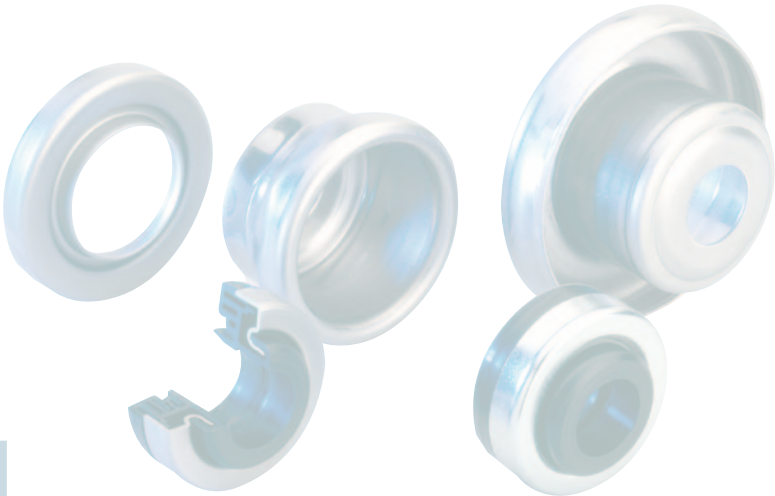
ST-6204	125
ST-6305	100
ST-6306	100

LH/FL

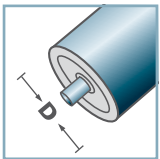


BS-				
Type	Da ±0.1	D -2	H ±0.5	t
BS-50-130	49,9	130	10	1,5
BS-60-130	59,9	130	10	1,5
BS-80-150	79,9	150	14	2,5
BS-89-150	88,9	150	14	2,5
BS-108-150	107,9	150	14	2,5
Other dimensions on request!				

Wheel Flange: Steel

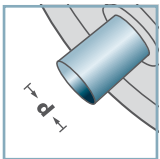


BS-



D [mm]

-



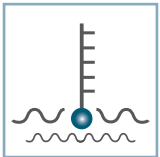
d [mm]

-



C [daN]

-



T [°C]

-



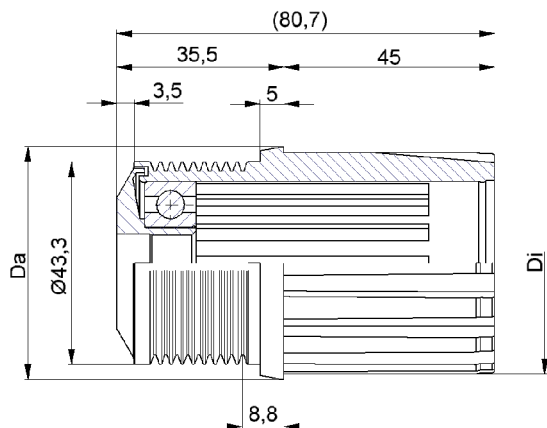
-



Carton [pcs.]

25

LH/FL

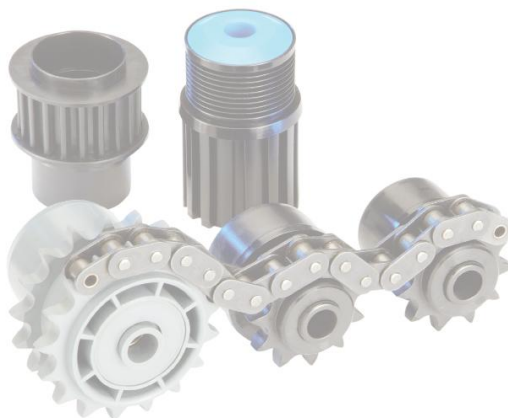


V-Beltdrive PJ VR-

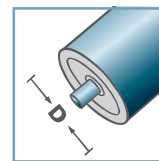
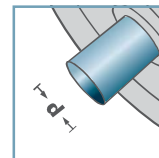
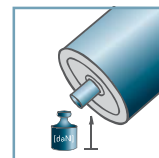
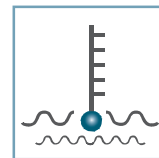
Type	Di	Da	Load Rating C [daN]
50x1,5.40	47,3	49,8	80

Driving belt available on request!

- ☛ Housing: Plastic
- ☛ Single Labyrinth Seal: Plastic
- ☛ Bearing 6202
also with two bearings available



VR-40

D [mm]
50d [mm]
12C [daN]
-T [°C]
0° - 80°

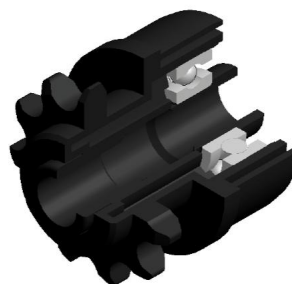
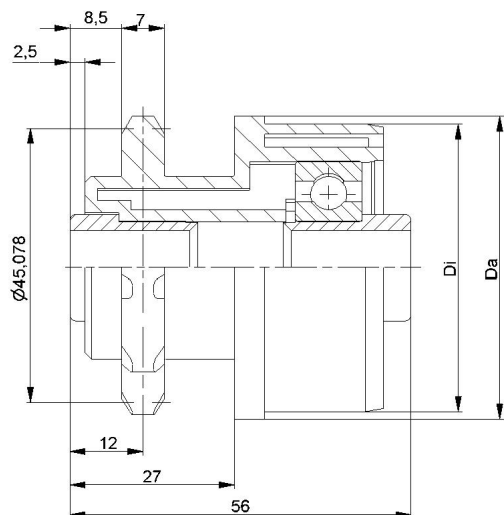
EP 2



Carton [pcs.]

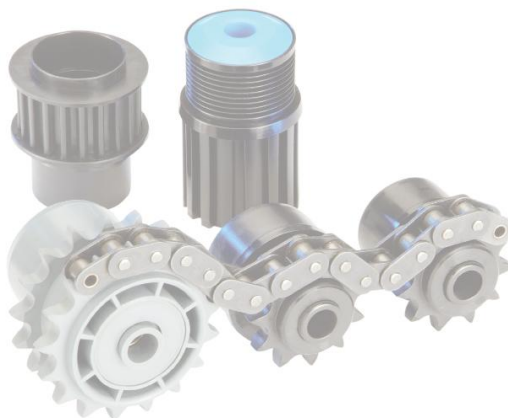
60

Plastic VR-Belt Drive

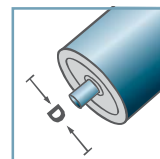


KKR-1/2"x5/16"-Z11 for fix driving		
Type	Di +0,2	Da
50x1,5.40	47,3	49,9
50x2,0.40	46,3	49,9
50x2,8.40	44,6	49,9
Other dimensions on request!		

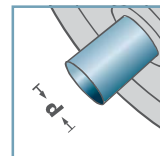
- ☛ Housing: Plastic
- ☛ Reducing Bush: Plastic
- ☛ Bearing 6202



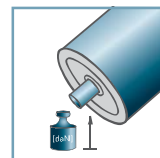
KKR-40



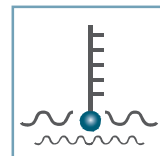
D [mm]
50



d [mm]
12



C [daN]
-



T [°C]
0° - 80°



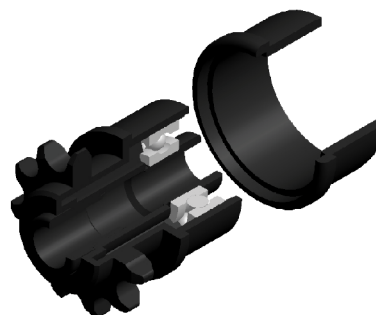
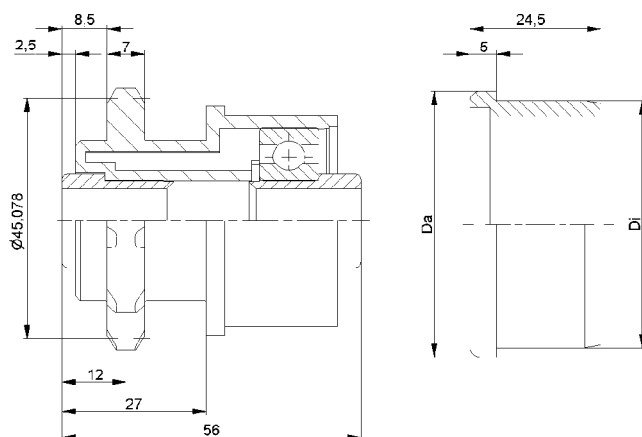
EP 2



Carton [pcs.]

150

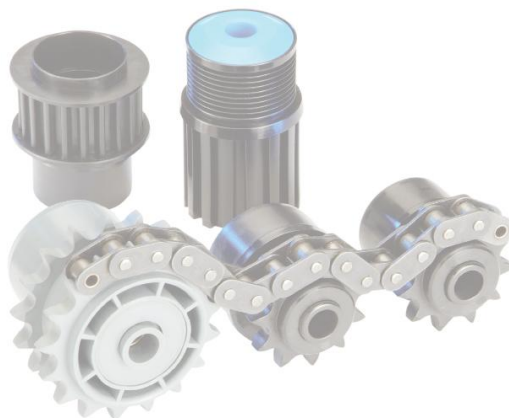
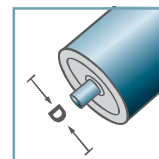
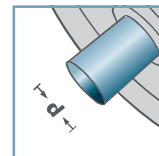
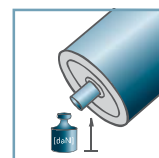
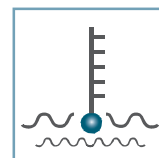
Plastic Sprocket Wheel


KKR-1/2"x5/16"-Z11 for friction driving

Type	Di +0,2	Da
50x1,5.40 ST	47,3	49,9
50x2,0.40 ST	46,3	49,9
50x2,8.40 ST	44,6	49,9

Other dimensions on request!

- ☛ Housing: Plastic
- ☛ Reducing Bush: Plastic
- ☛ Sliding Ring: Plastic
- ☛ Bearing 6202


KKR-40

D [mm]
50

d [mm]
12

C [daN]
-

T [°C]
0° - 80°

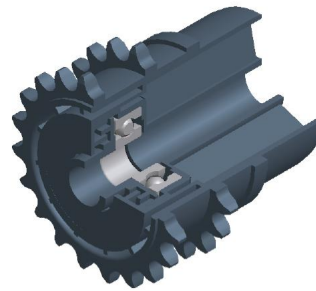
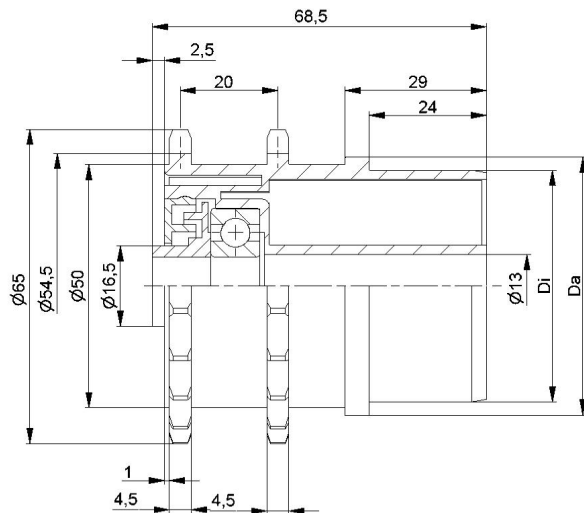

EP 2



Carton [pcs.]

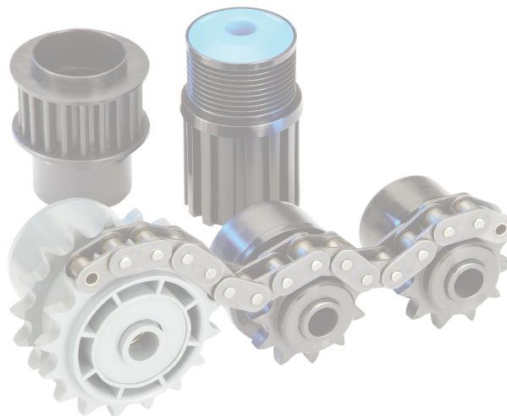
Housing:
150
Sliding Ring:
300

Plastic Sprocket Wheel



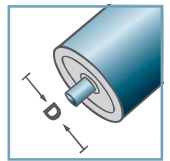
KKR-3/8"x3/16"-Z20		
Type	Di +0,2	Da
53x3,0.41	47,6	52,9
Other dimensions on request!		

- Housing: Plastic
- Inner Labyrinth Seal: Plastic
- Outer Labyrinth Seal: Plastic
- Bearing 6201

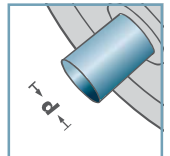


Plastic Sprocket Wheel

KKR-41



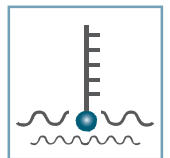
D [mm]
53



d [mm]
12



C [daN]



T [°C]
0° - 80°

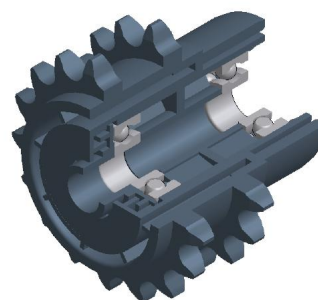
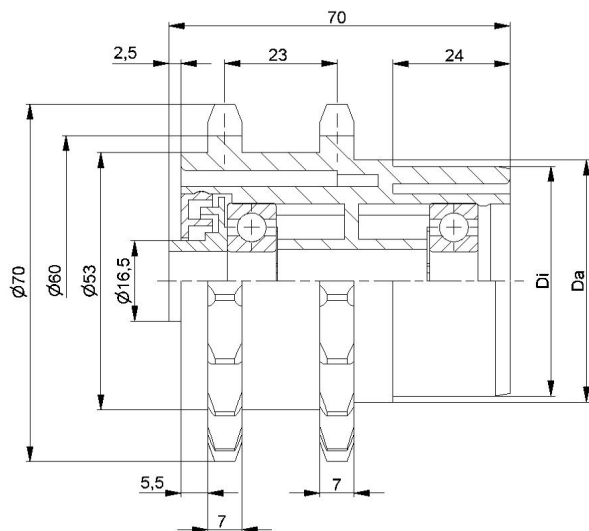


EP 2



Carton [pcs.]

60

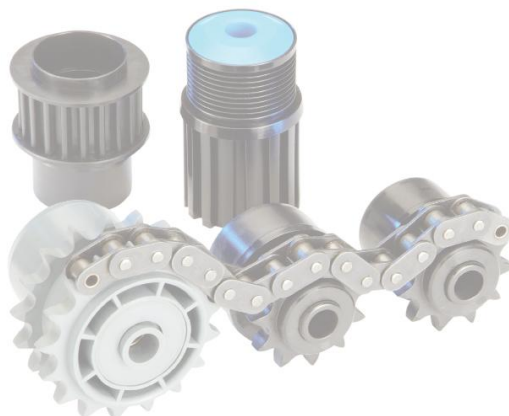


KKR-1/2"x5/16"-Z17

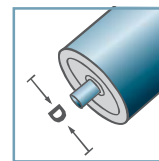
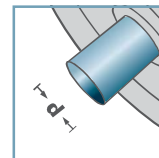
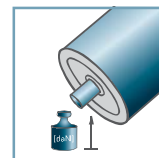
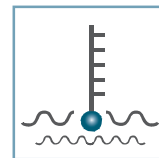
Type	Di +0,2	Da
50x1,5.41	47,3	49,8

Other dimensions on request!

- ☛ Housing: Plastic
- ☛ Inner Labyrinth Seal: Plastic
- ☛ Outer Labyrinth Seal: Plastic
- ☛ Bearing 6201



KKR-41

D [mm]
50d [mm]
12C [daN]
-T [°C]
0° - 80°

EP 2

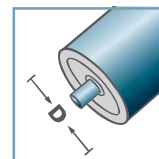


Carton [pcs.]

150

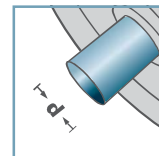
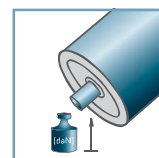
Plastic Sprocket Wheel

KKR-40



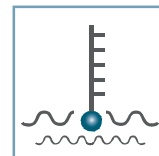
D [mm]

-

d [mm]
12

C [daN]

-

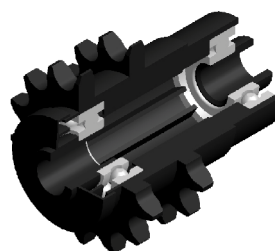
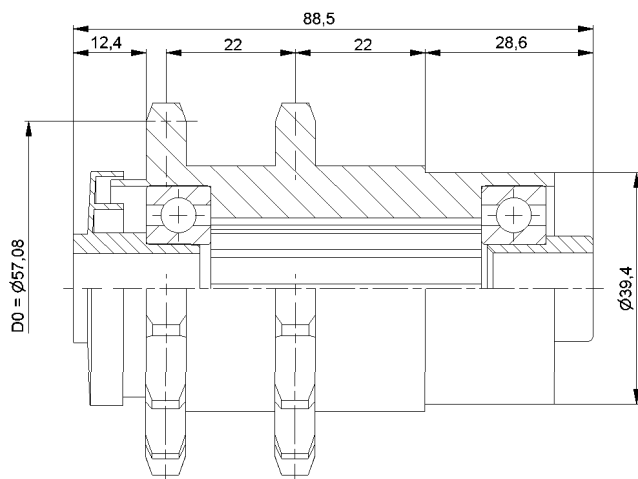
T [°C]
0° - 80°

-



Carton [pcs.]

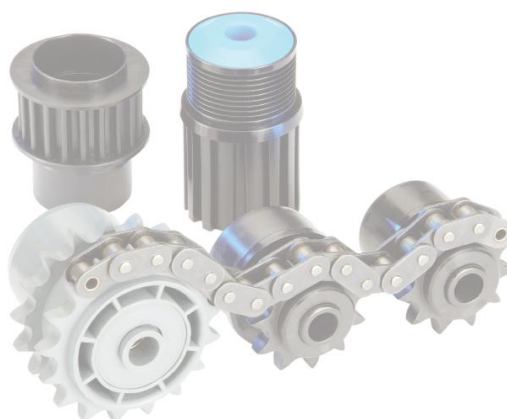
150



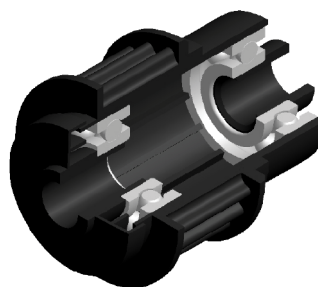
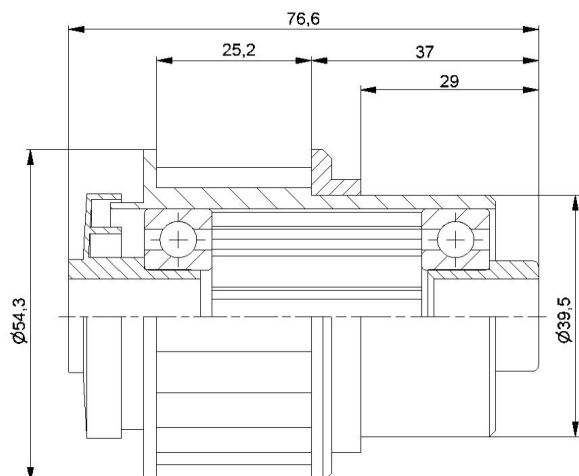
KKR-1/2"x5/16"-Z14

Other dimensions on request!

- ⚙ Housing: Plastic
- ⚙ Labyrinth Seal: Plastic
- ⚙ Reducing Bush: Plastic
- ⚙ Bearing 6202



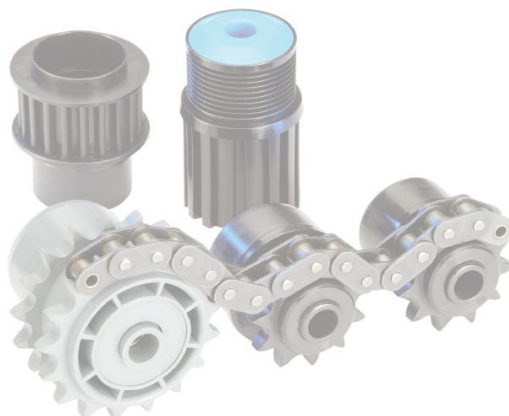
Plastic Sprocket Wheel



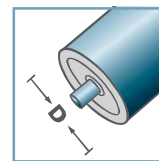
KZA-Z20.40

Other dimensions on request!

- ⚙ Housing: Plastic
- ⚙ Labyrinth Seal: Plastic
- ⚙ Reducing Bush: Plastic
- ⚙ Bearing 6202

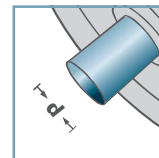


KZA-40



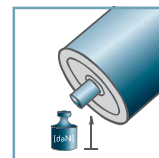
D [mm]

-



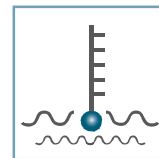
d [mm]

12



C [daN]

-



T [°C]

0° - 80°



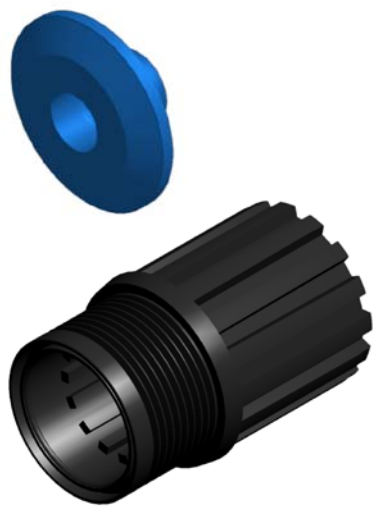
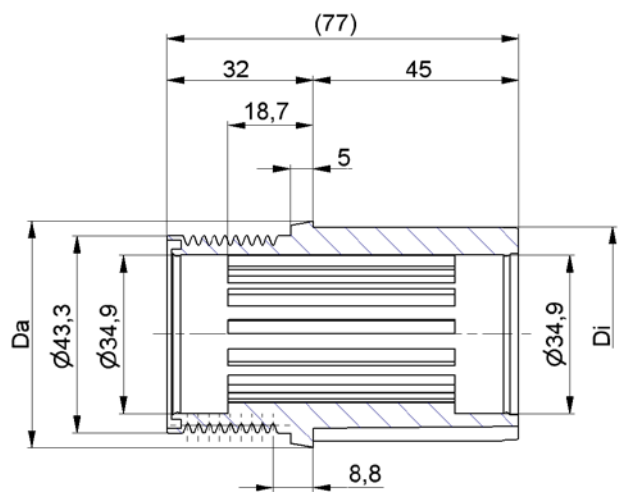
-



Carton [pcs.]

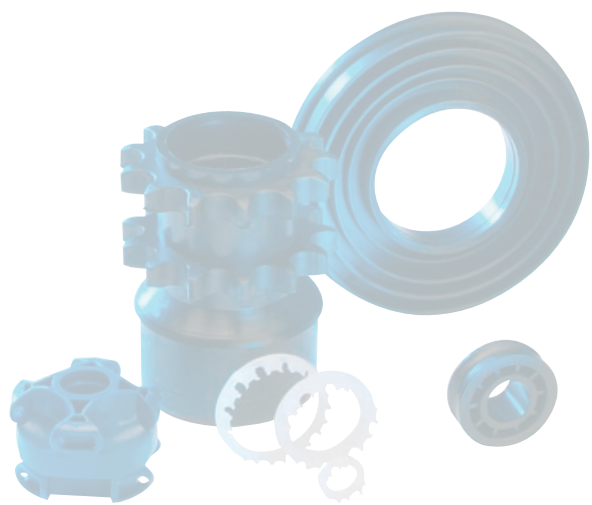
100

Plastic Synchronous Belt Drive

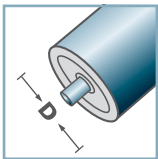


VR-		
Type	Di	Da
50x1,5.40	47,3	49,8
Driving belt available on request!		

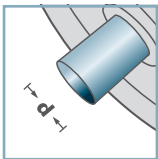
 Housing: Plastic



VR-40



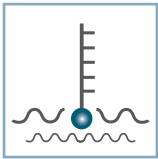
D [mm]
50



d [mm]
-



C [daN]
-



T [°C]
0° - 100°



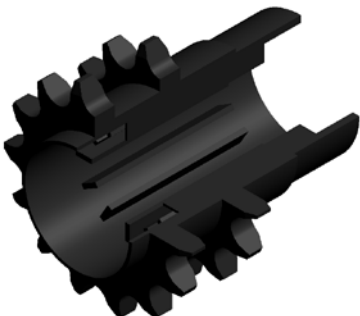
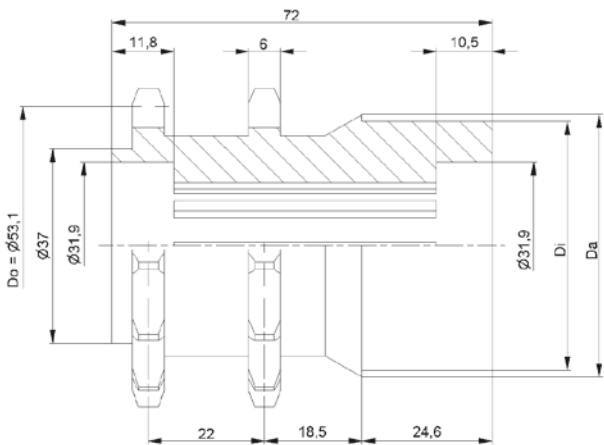
-



Carton [pcs.]

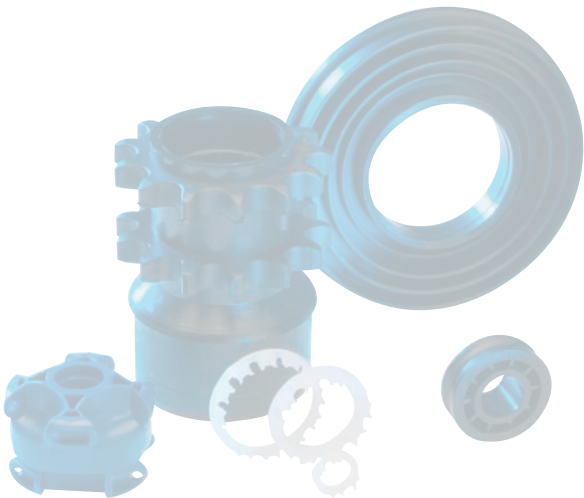
150

Plastic VR-Belt Drive Wheel

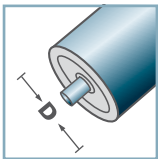


KKR-1/2"x5/16"-Z13		
Type	$D_i + 0,2$	D_a
50x1,5.40	47,3	49,9
Other dimensions on request!		

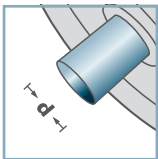
 Housing: Plastic



KKR-40



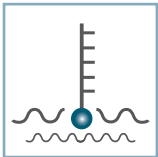
D [mm]
50



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



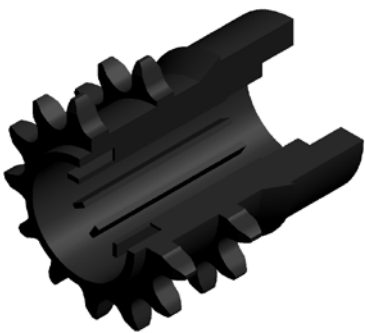
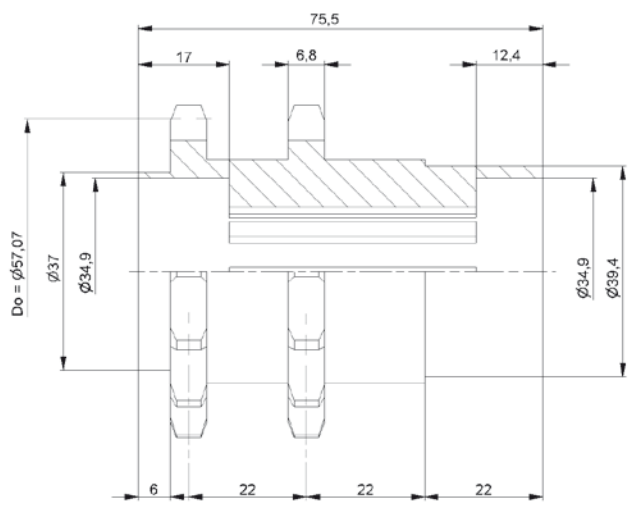
-



Carton [pcs.]

100

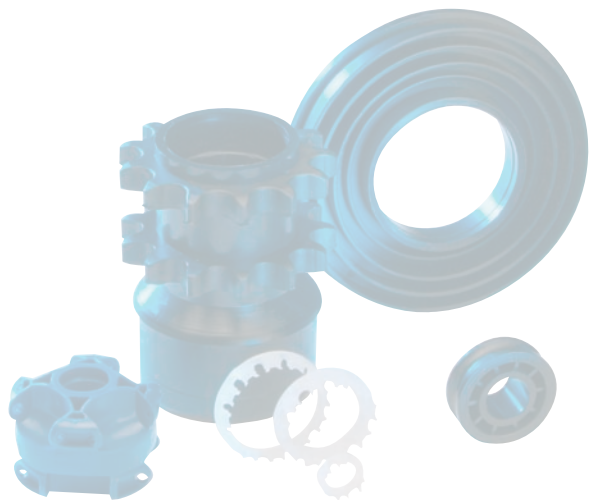
Plastic Sprocket Wheel



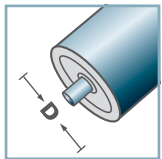
KKR-1/2"x5/16"-Z14

Other dimensions on request!

 Housing: Plastic

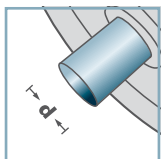


KKR-40



D [mm]

-



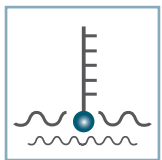
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



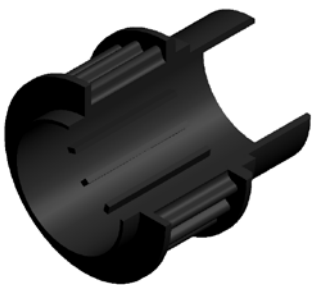
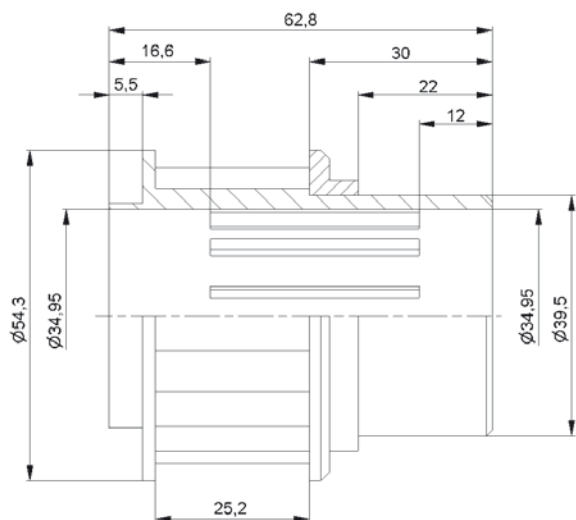
-



Carton [pcs.]

100

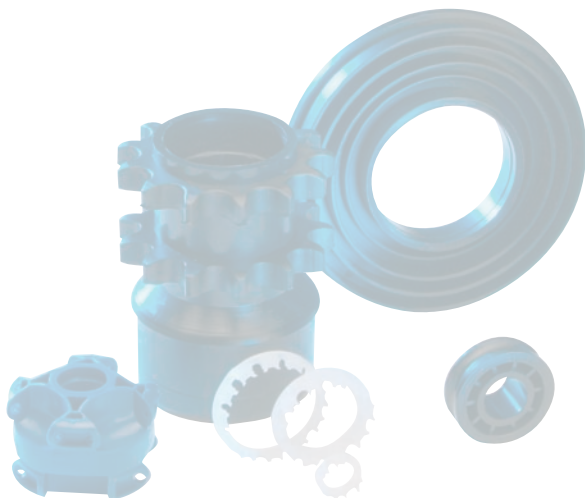
Plastic Sprocket Wheel



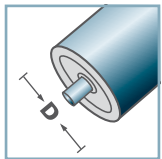
KZA-Z20.40

Other dimensions on request!

 Housing: Plastic

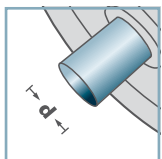


KZA-40



D [mm]

-



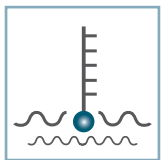
d [mm]

-



C [daN]

-



T [°C]

0° - 80°



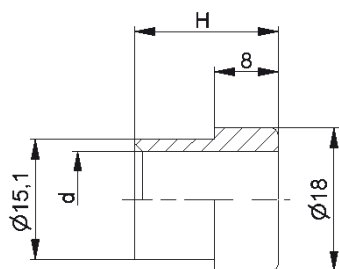
-



Carton [pcs.]

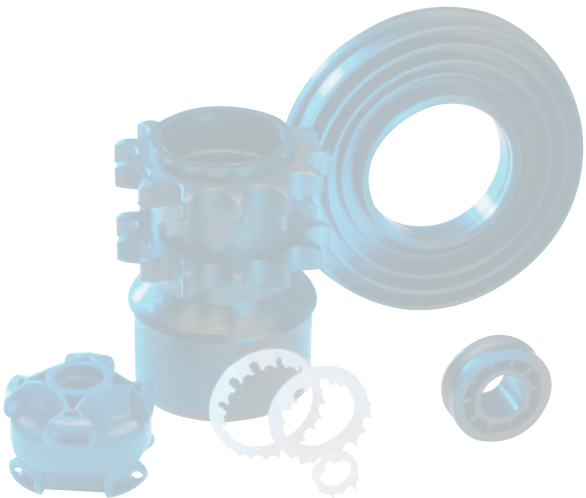
150

Plastic Synchronous Belt Drive

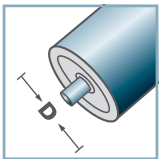


KKR-40		
	d	H
KKR-40	10	19
KKR-40	12	18
KKR-40	14	19
KKR-40	SW11	19
Other dimensions on request!		

 Reducing Bush: Plastic

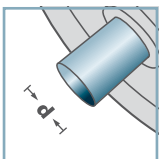


KKR-40



D [mm]

-



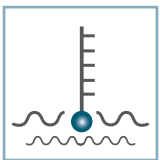
d [mm]

10; 12; 14; SW11



C [daN]

-



T [°C]

0° - 80°



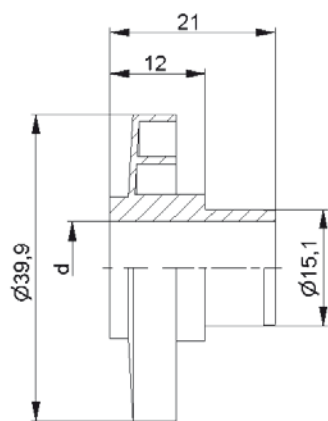
-



Carton [pcs.]

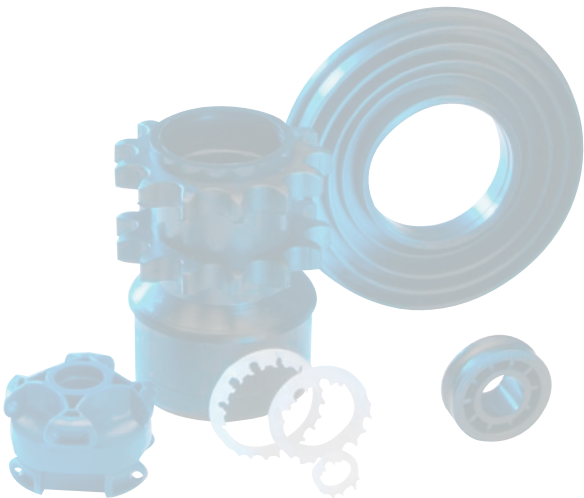
500

Reducing Bush

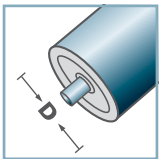


KKR-40	
Typ	d
KKR-40	10
KKR-40	12
KKR-40	14
KKR-40	SW11
Other dimensions on request!	

 Labyrinth Seal: Plastic

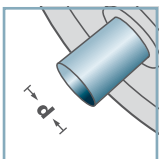


KKR-40



D [mm]

-



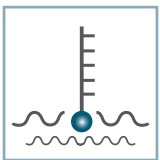
d [mm]

10; 12; 14; SW11



C [daN]

-



T [°C]

0° - 80°



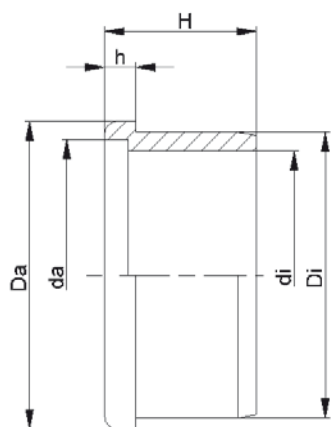
-



Carton [pcs.]

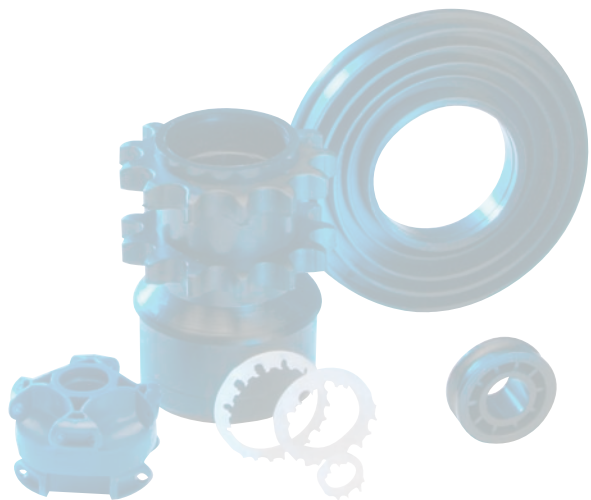
1000

Labyrinth Seal

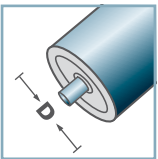


KKR-40						
Typ	Di	Da	di	da	H	h
50x1,5	47,25	50	39,3	42,6	25,2	5
50x2,8	44,7	50	39,3	42,6	25,2	5
60x1,5	57,3	60	47,0	50,7	25,5	5
60x2,0	56,3	60	47,0	50,7	25,5	5
Other dimensions on request!						

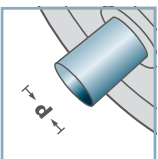
 Distance Ring Fix: Plastic



KKR-40



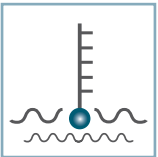
D [mm]
50 - 60



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



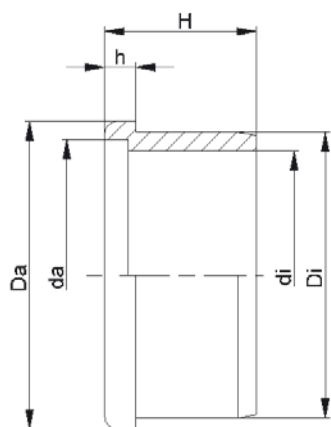
-



Carton [pcs.]

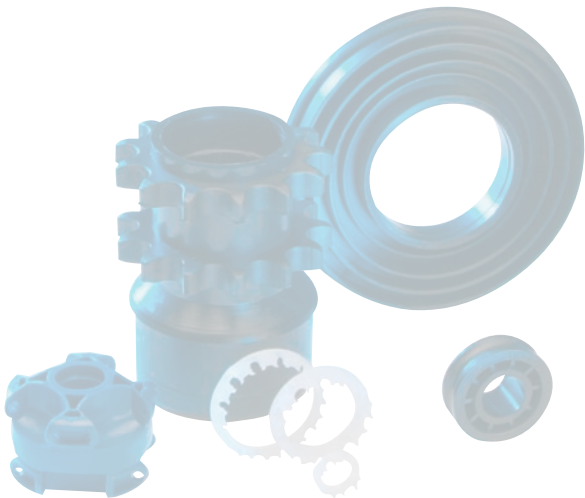
ø50: 400
ø60: 250
ø80: 100

Distance Ring Fix

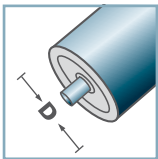


KKR-40						
Typ	Di	Da	di	da	H	h
50x1,5	47,2	50	40,6	44,6	25	5
50x2,8	44,6	49,7	40,6	44,6	25	4,8
Other dimensions on request!						

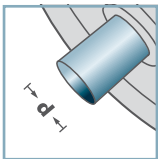
Distance Ring Friction: Plastic



KKR-40



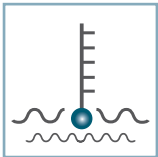
D [mm]
50 - 60



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



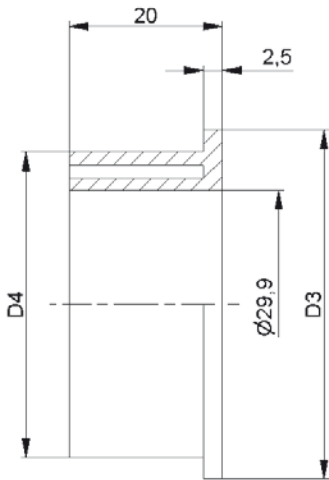
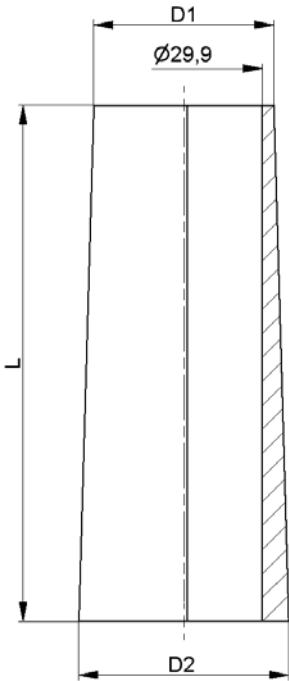
-



Carton [pcs.]

400

Distance Ring Friction

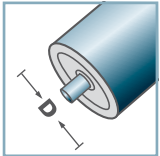


KF-30					
Type A	D1	D2	L	D3	D4
KF-30 I Type A	33,6	39,2	96,4	-	-
KF-30 II Type A	39,1	45,6	100,5	45,6	40
KF-30 III Type A	45,7	52,1	100,5	52,1	46,7
KF-30 IV Type A	52,2	58,8	100,5	57,9	57,9
KF-30 V Type A	58,6	65,1	100,5	64,9	60,0
KF-30 VI Type A	65,2	71,9	100,5	71,3	66,4
Other dimensions on request!					

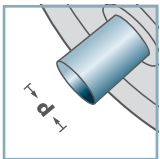
- Conic Roller: Plastic
- Endcap: Plastic



KF-30



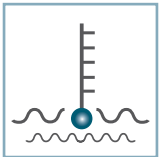
D [mm]
30



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



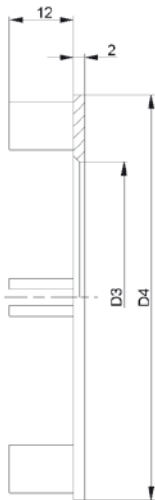
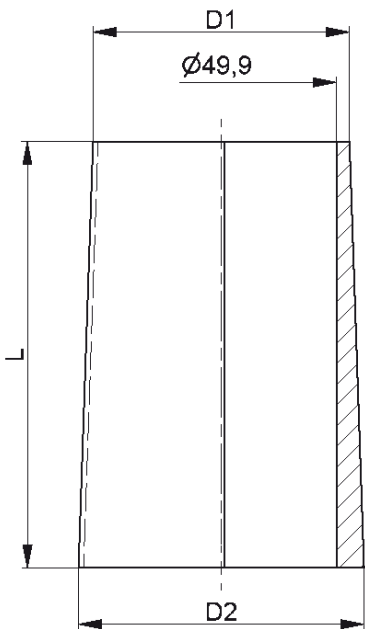
-



Carton [pcs.]

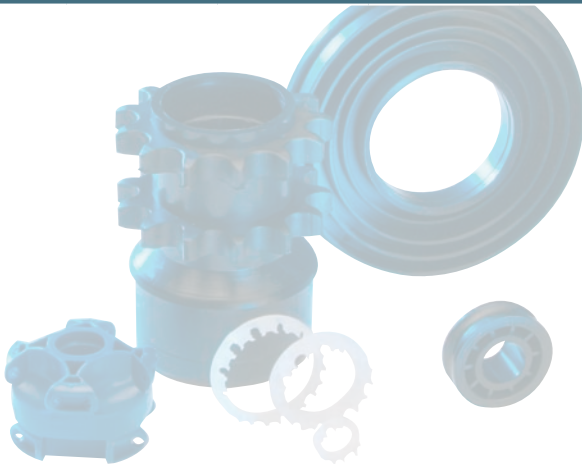


Taper Sleeves

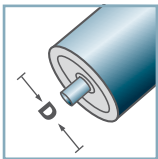


KF-50					
Type A	D1	D2	L	D3	D4
KF-50 I-a Type A	53,4	59,7	92,5	-	-
KF-50 I-b Type A	54,0	59,7	95,5	-	-
KF-50 II Type A	60,0	66,5	100,0	-	-
KF-50 III Type A	66,5	73,0	99,0	-	-
KF-50 IV Type A	73,5	80,0	100,0	50,6	75,5
KF-50 V Type A	80,0	86,5	95,5	50,7	81,7
KF-50 VI Type A	86,5	93,5	100,0	50,6	87,7
KF-50 VII Type A	93,5	100,0	100,0	50,6	94,3
KF-50 VIII Type A	100,0	106,5	95,5	-	-
KF-50 IX Type A	106,5	113,0	95,5	-	-
KF-50 X Type A	113,0	119,5	95,5		
Other dimensions on request!					

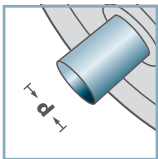
- Conic Roller: Plastic
- Endcap: Plastic



KF-50



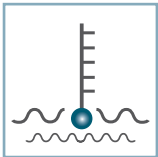
D [mm]
50



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



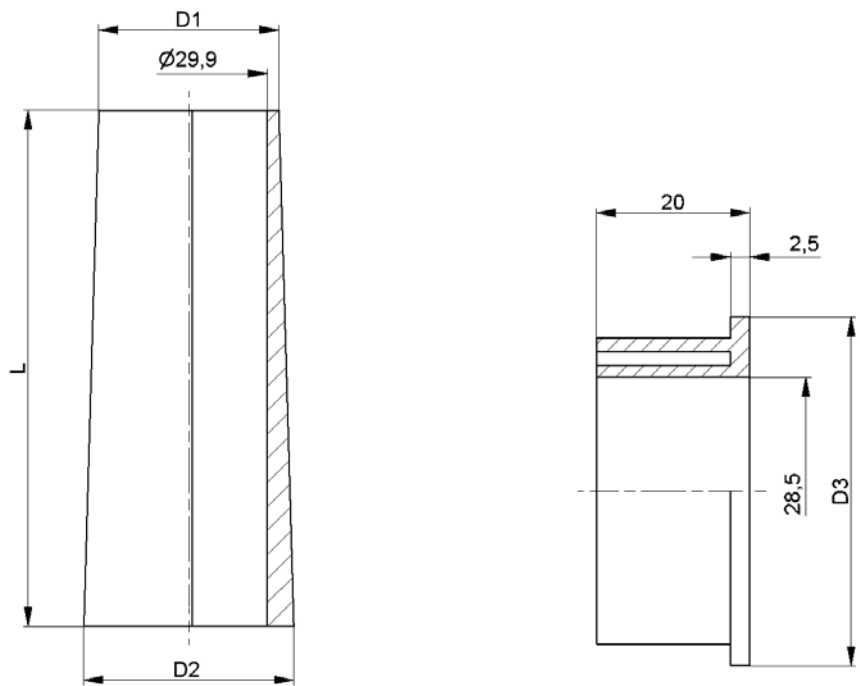
-



Carton [pcs.]



Taper Sleeves

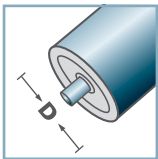


KF-30				
Type	D1	D2	D3	L
KF-30 I Type B	34,0	39,6	-	83
KF-30 II Type B	39,6	46,4	-	100
KF-30 III Type B	46,4	53,2	48,8	100
KF-30 IV Type B	53,2	59,9	55,8	100
KF-30 V Type B	59,9	66,7	62,3	100
KF-30 VI Type B	66,7	73,5	68,8	100
Other dimensions on request!				

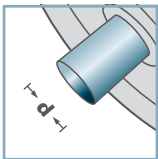
- Conic Roller: Plastic
- Endcap: Plastic



KF-30



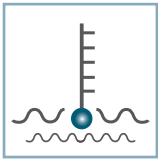
D [mm]
30



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



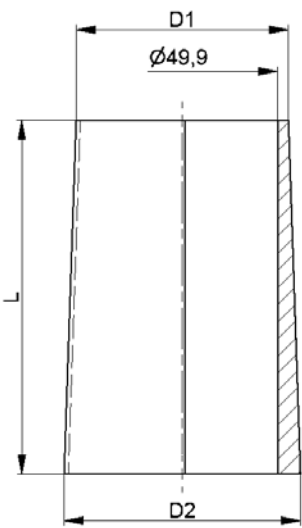
-



Carton [pcs.]



Taper Sleeves

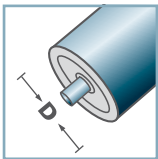


KF-50			
Type	D1	D2	L
KF-50 I Type B	54,0	59,9	90,0
KF-50 II Type B	59,9	66,6	100,0
KF-50 III Type B	66,6	73,4	100,0
KF-50 IV Type B	73,4	80,1	100,0
KF-50 V Type B	80,1	86,9	100,0
KF-50 VI Type B	86,9	93,6	100,0
KF-50 VII Type B	93,6	100,4	100,0
KF-50 VIII Type B	100,4	107,1	100,0
KF-50 IX Type B	107,1	113,9	100,0
KF-50 X Type B	113,9	120,9	100,0
Other dimensions on request!			

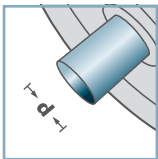
- Conic Roller: Plastic
- Endcap: not necessary



KF-50



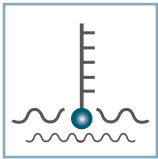
D [mm]
50



d [mm]
-



C [daN]
-



T [°C]
0° - 80°



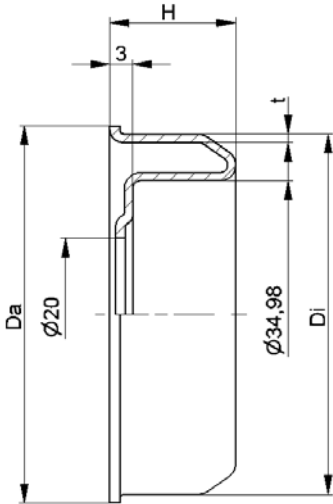
-



Carton [pcs.]

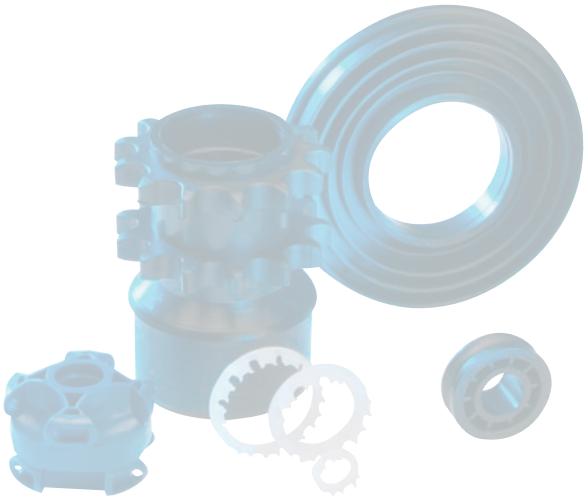


Taper Sleeves

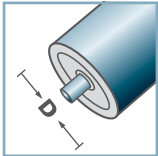


MRK-40				
Type	Di ±0,1	Da	H	t
MRK-50x1,5.40	47,3	49,5	16	1,2
MRK-50x2,0.40	46,3	49,5	16	1,2
MRK-60x2,0.40	56,3	59,5	16,5	1,5
MRK-60x3,0.40	54,3	59,5	16,5	1,5
Other dimensions on request!				

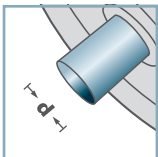
 Housing: Steel, Zinc plated



MRK-40



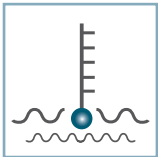
D [mm]
50 - 60



d [mm]
15



C [daN]
-



T [°C]
-



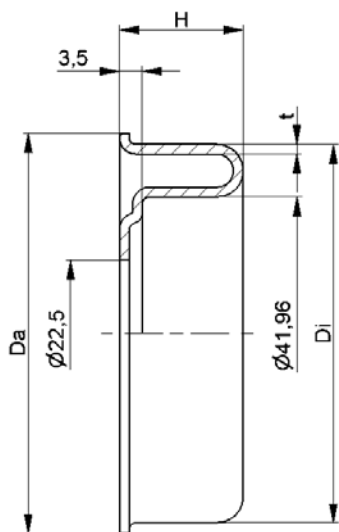
6202:
D35; d15; H11



Carton [pcs.]

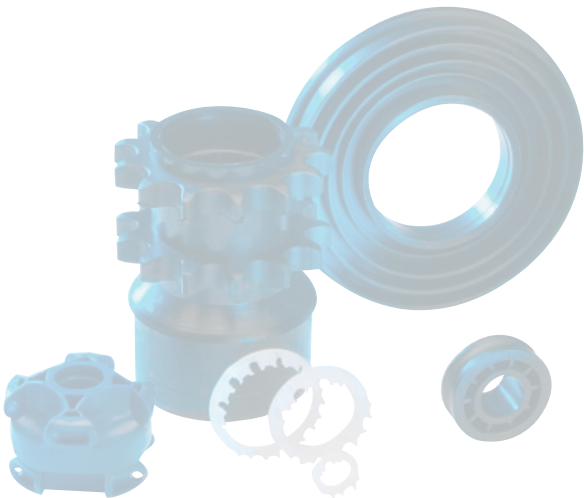
ø50: 100
ø60: 250

Steel Housing

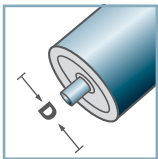


MRK-6004				
Type	Di ±0,1	Da	H	t
MRK-63,5x2,9/6004	58,1	61,5	19,0	1,5
Other dimensions on request!				

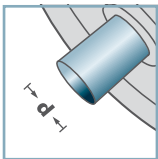
 Housing: Steel, Zinc plated



MRK-6004



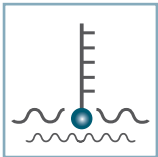
D [mm]
63,5



d [mm]
20



C [daN]
-



T [°C]
-



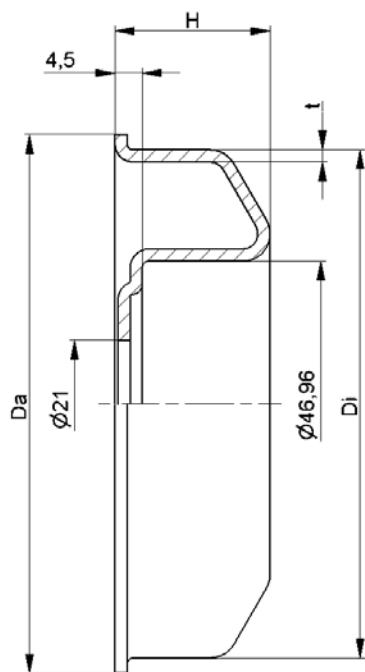
6004:
D42; d20; H12



Carton [pcs.]

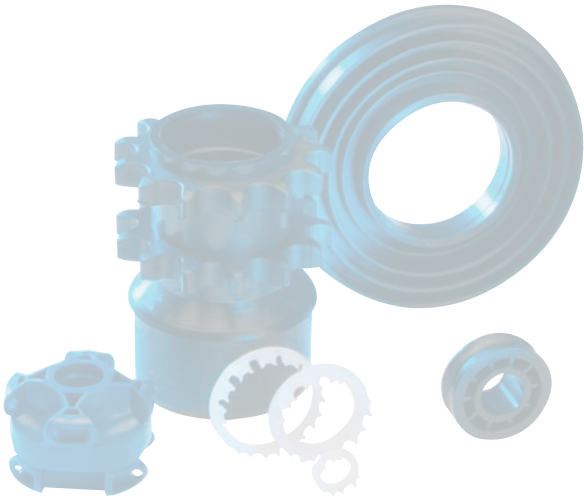
50

Steel Housing

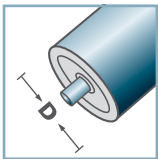


MRK-6204				
Type	Di ±0,1	Da	H	t
MRK-80x2,0/6204	76,5	79,5	23,5	2,0
MRK-80x3,0/6204	74,5	79,5	23,5	2,0
MRK-89x3,0/6204	83,5	88,5	23,5	2,0
MRK-89x3,25/6204	83,0	88,5	23,5	2,0
MRK-108x3,25/6204	102,0	107,5	25,0	2,0
Other dimensions on request!				

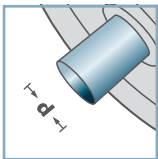
 Housing: Steel, Zinc plated



MRK-6204



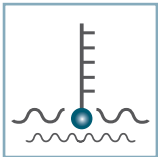
D [mm]
80 - 108



d [mm]
20



C [daN]
-



T [°C]
-



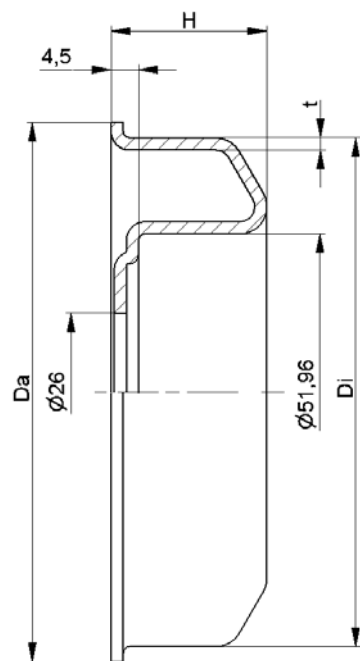
6204:
D47; d20; H14



Carton [pcs.]

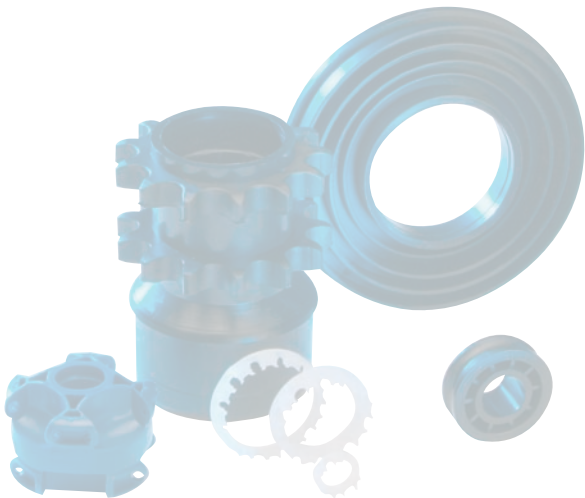
50

Steel Housing

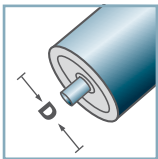


MRK-6205				
Type	Di ±0,1	Da	H	t
MRK-80x2,0/6205	76,5	79,5	23,5	2,0
MRK-80x3,0/6205	74,5	79,5	23,5	2,0
MRK-89x3,0/6205	83,5	88,5	24,5	2,0
MRK-108x3,25/6205	102,0	107,5	25,5	2,0
Other dimensions on request!				

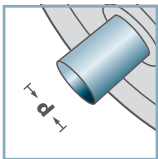
 Housing: Steel, Zinc plated



MRK-6205



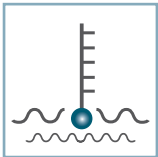
D [mm]
80 - 108



d [mm]
25



C [daN]
-



T [°C]
-



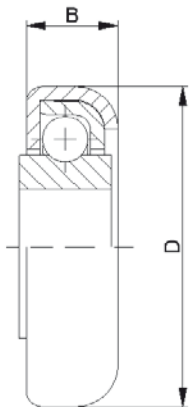
6205:
D52; d25; H15



Carton [pcs.]

50

Steel Housing

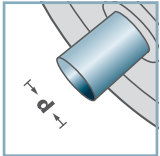


RL-0.280		
Type	D	B
RL-0.280	28,0	7,6
Other dimensions on request!		

- ☛ Capsule: Steel, Zinc Plated
- ☛ Bearing Shell: Steel
- ☛ Ball: Steel
- ☛ Inner Race
 - ☛ Steel: C=10daN
 - ☛ Plastic: C=7daN; 0° - 80°



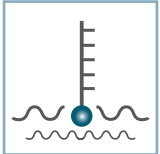
RL-0.280



d [mm]
10; 12; 12,8



C [daN]
7 - 10



T [°C]
0° - 80°



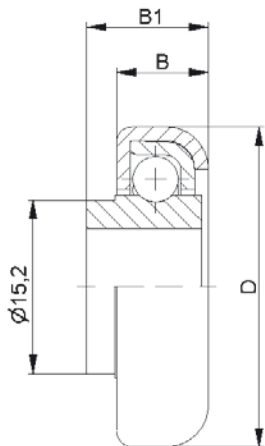
-



Carton [pcs.]

500

Radial Ball Bearings

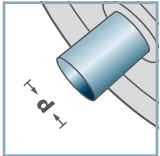


RL-0.280 with collar			
Type	D	B	B1
RL-0.280 m.B.	28,0	7,6	10,0
Other dimensions on request!			

- ☛ Capsule: Steel, Zinc Plated
- ☛ Bearing Shell: Steel
- ☛ Ball, Steel
- ☛ Inner Race
 - ☛ Steel: C=10daN
 - ☛ Plastic: C=7daN; 0° - 80°



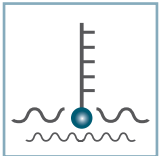
RL-0.280



10; 12; 12,8



C [daN]
7 - 10



T [°C]
0° - 80°



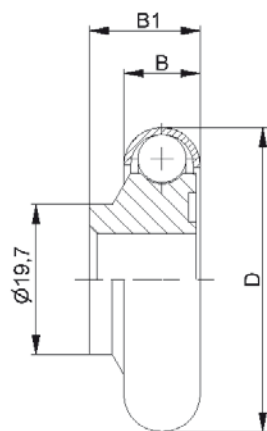
-



Carton [pcs.]

500

Radial Ball Bearings

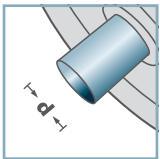


RL-0.400			
Type	D	B	B1
RL-0.400	40,0	10,0	14,5
Other dimensions on request!			

- ⚙ Capsule: Steel, Zinc Plated
- ⚙ Ball: Steel
- ⚙ Inner Race: Plastic



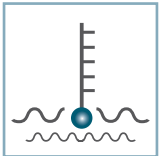
RL-0.400



d [mm]
10; 12



C [daN]
7



T [°C]
0° - 80°



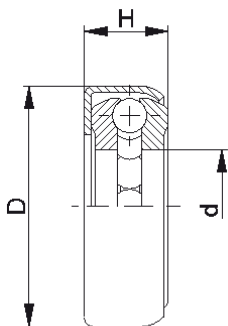
-



Carton [pcs.]

250

Radial Ball Bearings

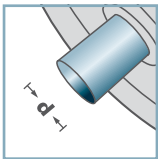


LL-				
Type	d	D	H	Load Rating C [daN]
LL-1.073	7,2	15,0	7,0	20
LL-1.082	8,2	15,8	6,85	20
LL-1.083	8,3	17,5	6,2	20
LL-1.093	9,3	17,5	6,2	20
LL-1.103	10,3	17,5	6,2	22
Other dimensions on request!				

- ⌚ Capsule: Steel
- ⌚ Ball Race: Steel, hardened
- ⌚ Ball: Steel



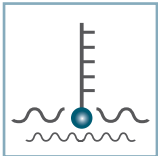
LL-



d [mm]
7; 8; 9; 10



C [daN]
450



T [°C]
-



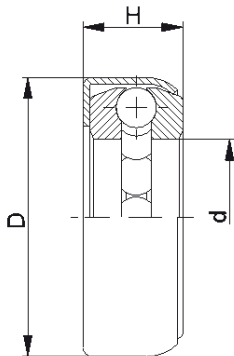
-



Carton [pcs.]

500

Pressed Thrust Bearings

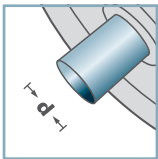


LL-				
Type	d	D	H	Load Rating C [daN]
LL-1.113	11,3	20,0	7,0	22
LL-1.123	12,3	22,0	8,0	22
LL-1.133	13,3	22,0	8,0	22
LL-1.141	14,15	22,0	7,7	22
Other dimensions on request!				

- ⌚ Capsule: Steel
- ⌚ Ball Race: Steel, hardened
- ⌚ Ball: Steel



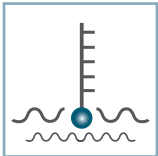
LL-



d [mm]
11; 12; 13; 14



C [daN]
450 - 600



T [°C]
-



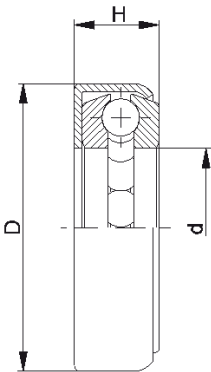
-



Carton [pcs.]

ø11: 500
ø12: 250
ø13: 250
ø14: 250

Pressed Thrust Bearings

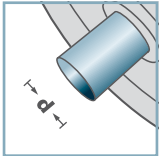


LL-				
Type	d	D	H	Load Rating C [daN]
LL-1.143	14,3	25,0	8,5	22
LL-1.163	16,4	27,0	9,0	24
LL-1.201	20,1	36,6	10,8	24
Other dimensions on request!				

- ⚙ Capsule: Steel
- ⚙ Ball Race: Steel, hardened
- ⚙ Ball: Steel



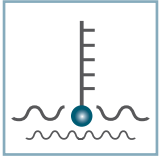
LL-



d [mm]
14; 16; 20



C [daN]
750



T [°C]
-



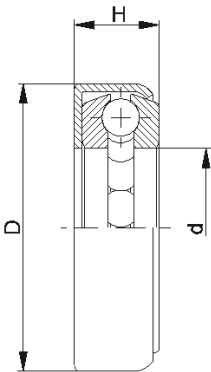
-



Carton [pcs.]

ø14: 200
ø16: 200
ø20: 350

Pressed Thrust Bearings

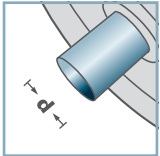


LL-				
Type	d	D	H	Load Rating C [daN]
LL-1.203	20,4	33,0	10,0	26
LL-1.223	22,4	43,5	12,0	26
LL-1.233	23,4	43,5	12,0	26
LL-1.243	24,4	43,5	12,0	26
LL-1.253	25,4	43,5	12,0	26
LL-1.263	26,4	43,5	12,0	26
Other dimensions on request!				

- ☛ Capsule: Steel
- ☛ Ball Race: Steel, hardened
- ☛ Ball: Steel



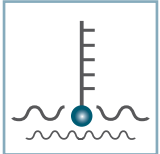
LL-



d [mm]
20; 22; 23;
24; 25; 26



C [daN]
240 - 260



T [°C]
-



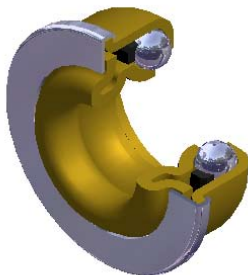
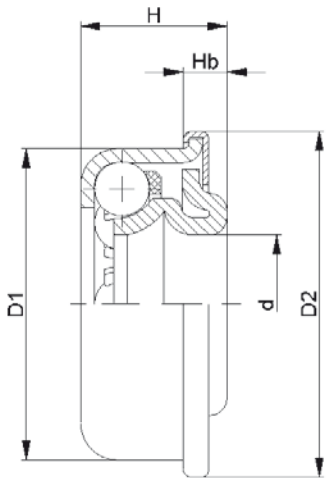
-



Carton [pcs.]

ø20:	100
ø22:	50
ø23:	50
ø24:	50
ø25:	50
ø26:	50

Pressed Thrust Bearings



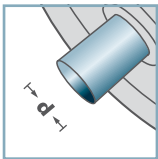
KL-					
Type	d	D1	D2	H	Hb
KL-4.10A	10,05	25,05	28,5	12,8	4,0
KL-4.12	12,05	27,05	30,2	12,2	3,8
KL-4.127	12,75	27,05	30,2	12,2	3,8
KL-4.14	14,05	27,05	30,2	12,0	3,6

Other dimensions on request!

- ⚙ Bearing Shell: Steel, Hardened
- ⚙ Cone: Steel, Hardened
- ⚙ Dust Cap: Steel, Zinc plated
- ⚙ Cage: Plastic
- ⚙ Ball: Steel



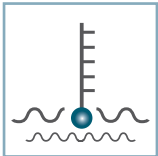
KL-



d [mm]
10; 12; 12,7; 14



C [daN]
30



T [°C]
0 - 80°



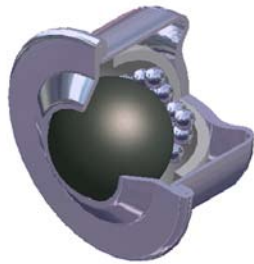
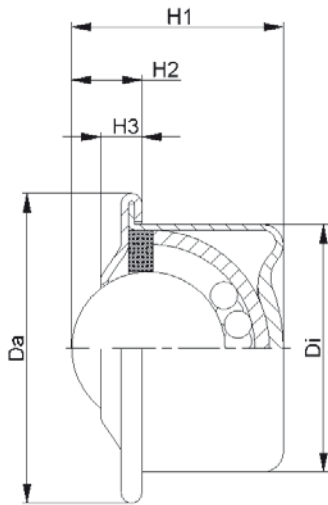
EP2



Carton [pcs.]

KL-4.10A: 500
KL-4.12: 1000
KL-4.127: 1000
KL-4.14: 1000

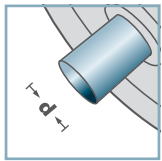
Cone Ball Bearings



KRO						
Type	Da	Di	H1	H2	H3	Load Rating C [daN]
KRO-015L	31,0	24,0	21,0	9,5	5,5	50
KRO-022L	45,0	36,0	30,5	10,0	6,0	120
KRO-015	31,0	24,0	21,0	9,5	5,5	120
KRO-022	45,0	36,0	30,5	10,0	6,0	350



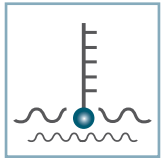
KRO-



d [mm]



C [daN]
50 - 120



T [°C]
-30° - 100°



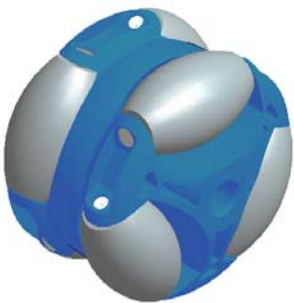
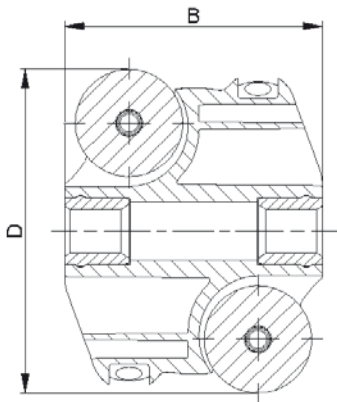
-



Carton [pcs.]

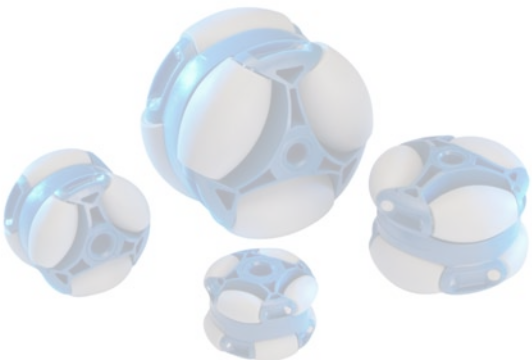
50

Ball Transfer Unit

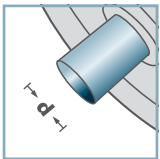


ASR-			
Type	D	B	Load Rating C [daN]
ASR-80	80	64	40
Other dimensions on request!			

- ⚙ Housing: Plastic
- ⚙ Barrel-shaped Roller: Plastic
- ⚙ Axis: 1.4301



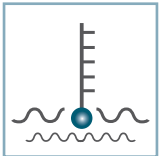
ASR-



d [mm]
8; 12;15; SW14



C [daN]
40



T [°C]
0° - 80°



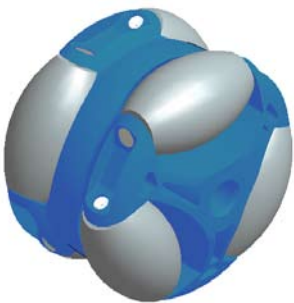
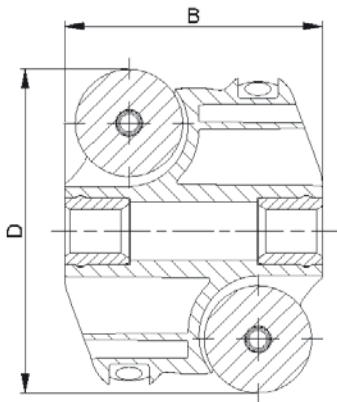
-



Carton [pcs.]

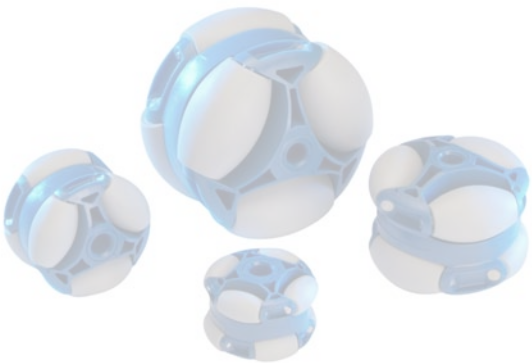
50

Polydirectional Wheel

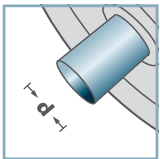


ASR-			
Type	D	B	Load Rating C [daN]
ASR-60	60	48	20
ASR-48	48	39	15
ASR-40	40	29	10
Other dimensions on request!			

- ⦿ Housing: Plastic
- ⦿ Barrel-shaped Roller: Plastic
- ⦿ Axis: 1.4301



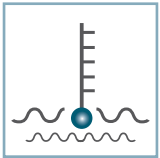
ASR-



d [mm]
8; 10; SW9



C [daN]
10 - 20



T [°C]
0° - 80°



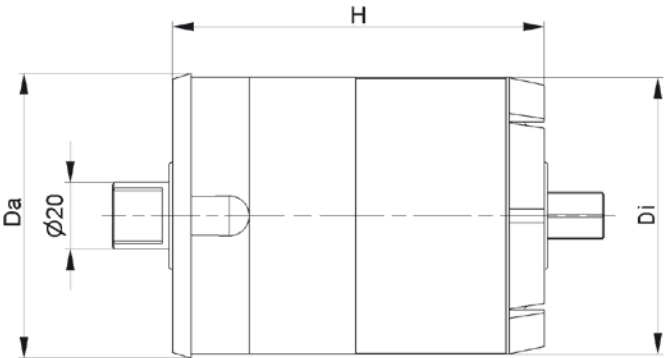
-



Carton [pcs.]

50

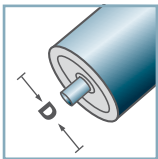
Polydirectional Wheel



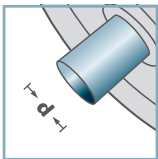
BR-89x3,0-				
Type	Da	Di	H	Load Rating [kg]
200	88,5	83	115	200
500	88,5	83	115	500
800	88,5	83	115	800
1200	88,5	83	115	1200



BR-



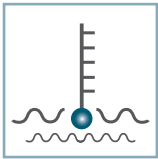
D [mm]
89



d [mm]
20



C [daN]
250



T [°C]
0° - 80°



EP2



Carton [pcs.]

20

Brake Roller Unit



Other dimensions on request!

- Tube: Steel, Zinc plated
- Metal Roller Bearing MTR-20



Metal Roller

A diagram of a shaft with diameter D . The diameter is indicated by a dimension line with arrows pointing to the shaft's surface, labeled with the letter D .



A diagram showing a cross-section of a cylindrical shell. The diameter of the shell is labeled as d .



Carton [pcs.]