Crane wheels with self alignig roller bearings, with gear ring

DIN 15 079

self aligning roller bearings series 222

Form BG broad crane wheel with large gear ring
(running surface-Ø d1 ≤ 500 mm)
gear ring pressed on

Form BG broad crane wheel with large gear ring
(running surface-Ø d1 ≥ 630 mm)
gear ring screwed on

Designation of a travel wheel form BG with nominal-Ø d1 = 630 mm, gauge b1 = 100 mm, including self aligning roller bearings 222 26, covers with labyrinth gland:

Crane wheel BG 630 × 100 DIN 15 079

Form SK narrow crane wheel (S) with small gear ring (K)
Form SG narrow crane wheel (S) with large gear ring (G)
Form BK broad crane wheel (B) with small gear ring (K)
Form BG broad crane wheel (B) with large gear ring (G)

The bearings are lubricated.

The bushing are supplied with lubricating hole and flattening against rotation (design see DIN 15 086).

Design of the covers see DIN 15 084.
Without certain agreement covers form A will be mounted.

Material:

Wheel body	GE420 (GS-70) or G42CrMo4+QT (GS-42CrMo4V)
Inner bush	S355 (St 52)
Spacer	S355 (St 52) or EN-GJS-400-15 (GGG-40))
Cover	S355J2G3 (St 52-3
Gear ring	GE300 (GS-60)

Other material and dimensions (e. g. with self aligning roller bearings series 223) on request.

Appendant gear rings see DIN 15 082 part 1 and part 2.

Appendant travel wheels without gear ring see DIN 15 078.

See DIN 15070 for basis of calculation for crane wheels.

Calculation of bearing load of wheels for service life calculation of anti-friction bearing see DIN 15 071.

Remarks to the following table:

1) The dimension of the gauge recess b1 to be stated with order. For running surface profiles and correspondence of crane rails to running wheel diameter see DIN 15072.

2) exposition the dimensions see DIN 15 075

Crane wheels with self aligning roller bearings, with gear ring

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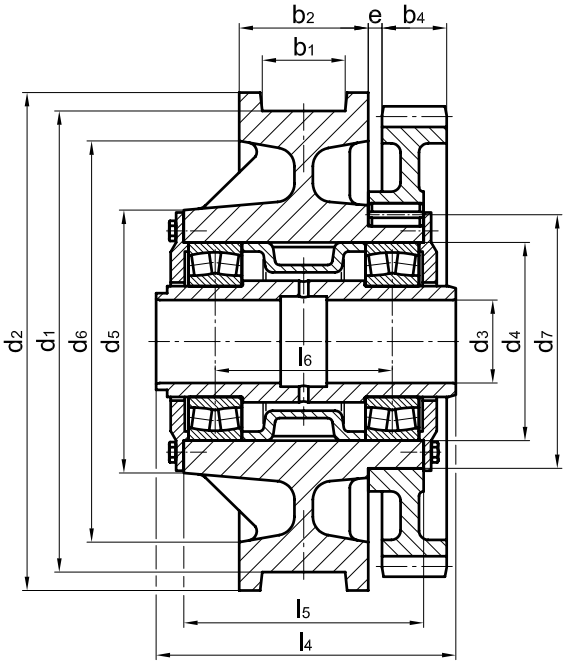
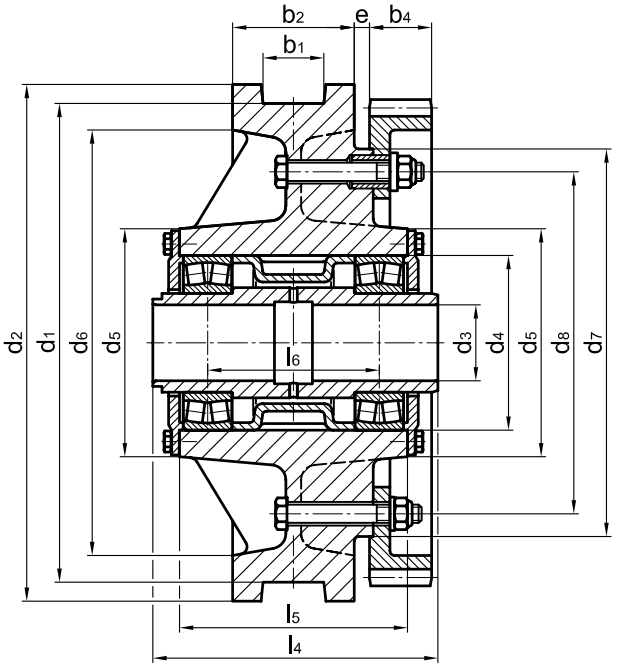


Crane wheel with pressed on gear ring
(running surface-Ø d1 ≤ 500 mm)



Crane wheel with screaved on gear ring
(running surface-Ø d1 ≥ 630 mm)

form	d1 h9	b1[1]	b2	d2	d3 D10	d4 M7	d5	d6	d7	d7 tolerance zone	d8	gear ring module	gear ring no. of teeth	b4	e	f[2]	l4 -0,5	l5	l6	s1[2] min.	s2[2] min.	no. of ribs and cams	bearings DIN 635-2	unit weight ≈[kg]
SG	315	45-55	90	350	60	160	220	270	210	r6	–	6	52	60	15	–	250	190	140	18	–	–	22218	98
BG		55-65	110														270	210	160					108
SK	400	55-65	110	440	80	180	240	345	230	r6	–	8	40	65	15	–	280	220	164	20	–	–	22220	140
SG													50											152
BK		70-90	140										40				310	250	194					160
BG													50											172
SK	500	55-65	110	540	90	215	285	435	275	r6	–	10	42	70	15	35	290	230	162	20	15	4 without Nocken	22224	220
SG													49											232
BK		70-90	140										42				320	260	192					240
BG													49											252
SK	630	65-75	120	680	100	230	300	560	460	h9	400	10	54	80	20	40	330	260	186	20	15	6	22226	308
SG									510		450		62											323
BK		80-110	160						460		400		54				370	300	226					396
BG									510		450		62											411
SK	710	75-90	140	760	110	270	340	630	510	h9	450	12	50	90	20	40	370	300	217	25	18	6	22230	446
SG									580		520		58											471
BK		95-160	210						510		450		50				440	370	287					589
BG									580		520		58											614
SK	800	75-90	140	850	125	290	360	710	610	h9	550	12	58	100	20	40	390	320	230	25	18	6	22232	568
SG									660		600		66											588
BK		95-160	210						610		550		58				460	390	300					728
BG									660		600		66											748
SK	900	75-90	140	950	140	320	390	805	680	h9	620	14	56	110	20	40	410	340	244	25	18	6	22236	720
SG									750		690		63											750
BK		95-160	210						680		620		56				480	410	314					890
BG									750		690		63											920
SK	1000	75-90	140	1050	160	360	450	900	790	h9	710	14	64	110	20	50	410	330	222	30	20	6	22240	940
SG									840		760		70											965
BK		95-160	210						790		710		64				480	400	292					1130
BG									840		760		70											1155
BK	1120	95-160	220	1180	180	400	490	1010	880	h9	800	16	62	125	20	50	520	440	322	30	20	8	22244	1480
BG									950		870		68											1530
BK	1250	95-160	220	1310	200	440	530	1140	1000	h9	920	16	70	125	20	50	520	440	310	30	20	8	22248	1730
BG									1080		1000		76											1770

footnote see page 38