

# Crane wheels with plain bearing with gear ring

DIN 15 075



Designation of a travel wheel form BG with nominal-  
Ø d1 = 630 mm,  
gauge b1 = 100 mm, hub symmetric (l1 = l2 = 185 mm):

## Crane wheel BG 630 × 100 DIN 15 075

**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 plain bearings are secured with setscrews toward twisting and dislocation.

Gear rings see DIN 15 082 part 1.

Material:

Wheel body-Ø 200–250 C45 machined from solid

Wheel body-Ø 315–1250 GE420 (GS-70) or

G42CrMo4+QT (GS-42CrMo4V)

Bearing G-CuSn7ZnPb (Rg 7)

Gear ring GE300 (GS-60) or C45

**Other material and dimensions on request.**

Crane wheels without gear ring see DIN 15 074.

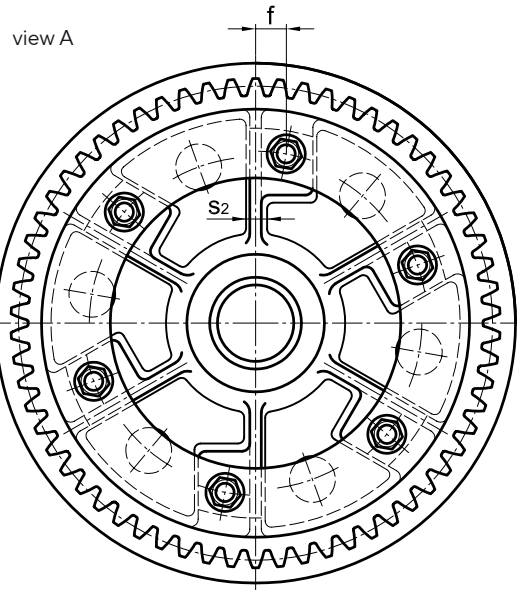
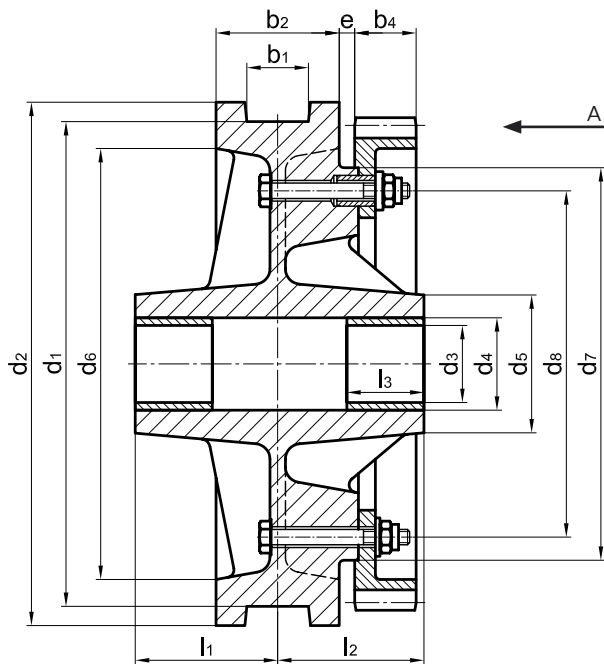
See DIN 15070 for basis of calculation for crane wheels.

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) Asymmetric hubs (diameter l<sub>1</sub>) as per agreement.
- 3) For l1 = 90 mm is a slide bearing length of l3 = 120 mm to use.
- 4) For l1 = 125 mm is a slide bearing length of l3 = 180 mm to use.

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Form	d1	b1 <sup>1)</sup>	b2	l1 <sup>2)</sup>		l2	d2	d3 D10	d4 H7	d5	d6	d7	d8	gear ring (form A)			e	f	l3	s1	s2	no. of ribs and cams	unit weightt ≈[kg]		
				sym- me- tric	asymme- tric									Mo- dule	no of teeth	b4									
SG	200	40-55	90	105	80	60	105	230	45	55	85	170	160	125	5	40	40			45					35
SG	250	40-55	90	115	85	60	115	280	50	60	100	210	200	155	5	50	50	15	-	50	18	-	without Ribs 4	58	
SG	315	45-55	90	125	95	65	125	350	60	75	120	270	260	200	6	52	60			63				76	
BG	315	55-65	110	135	105	75	135																	87	
SK	400	55-65	110	140	105	75	140	440	80	95	140	345	270	210	8	40	65	15	-	80	20	-	without Ribs 4	92	
SG													300	240		50								102	
BK	400	70-90	140	155	120	90	155	440	80	95	140	345	270	210	8	40	65	15	-	80	20	-	without Ribs 4	146	
BG													300	240		50								156	
SK	500	55-65	110	145	110	75	145	540	90	105	160	435	350	290	10	42	70	15	35	90	20	15	4	163	
SG													390	330		49								173	
BK	500	70-90	140	160	125	90	160	540	90	105	160	435	350	290	10	42	70	15	35	90	20	15	4	202	
BG													390	330		49								212	
SK	630	65-75	120	165	120	80	165	680	100	120	180	560	460	400	10	54	80	20	40	100	20	15	6	300	
SG													510	450		62								315	
BK	630	80-110	160	185	140	100	185	680	100	120	180	560	460	400	10	54	80	20	40	100	20	15	6	342	
BG													510	450		62								357	
SK	710	75-90	140	185	135	90	185	760	110	130	200	630	510	450	12	50	90	20	40	110	25	18	6	412	
SG													580	520		58								437	
BK	710	95-160	210	220	170	125	220	760	110	130	200	630	510	450	12	50	90	20	40	110	25	18	6	519	
BG													580	520		58								544	
SK	800	75-90	140	195	140	90	195	850	125	145	220	710	610	550	12	58	100	20	40	125	25	18	6	523	
SG													660	600		66								543	
BK	800	95-160	210	230	175	125	230	850	125	145	220	710	610	550	12	58	100	20	40	125	25	18	6	543	
BG													660	600		66								658	
SK	900	75-90	140	205	145	90	205	950	140	160	240	805	680	620	14	56	110	20	40	150	25	18	6	550	
SG													750	690		63								580	
BK	900	95-160	210	240	180	125	240	950	140	160	240	805	680	620	14	56	110	20	40	150	25	18	6	700	
BG													750	690		63								730	
SK	1000	75-90	140	205	145	90	205	1050	160	180	270	900	790	710	14	64	110	20	50	150 <sup>3)</sup>	30	20	6	725	
SG													840	760		70								750	
BK	1000	95-160	210	240	180	125	240	1050	160	180	270	900	790	710	14	64	110	20	50	150 <sup>3)</sup>	30	20	6	885	
BG													840	760		70								910	
BK	1120	95-160	220	260	190	125	260	1180	180	200	300	1010	880	800	16	62	125	20	50	180	30	20	8	1170	
BG													950	870		68								1220	
BK	1250	95-160	220	260	190	125	260	1310	200	220	330	1140	1000	920	16	70	125	20	50	200 <sup>4)</sup>	30	20	8	1360	
BG													1080	1000		76								1400	

footnote see page 34