



DIN 15079 - or similar....

We design and manufacture your products according to your demands. Standards and regulatories just serve as construction base. Fine adjustments and modifications are executed correspondingly to your requirements.

Crane wheels with roller bearings - driven - one-piece - extremely robust and reliable

Warmly welcome!

Crane wheels are heavy-duty components which are subject to high loads.

Our high quality components are required, when maximum safety and reliability are needed.

High safety standards and permanent availability of the transport systems are major aspects for long-standing costumers who trust in BÖHMER quality.

BÖHMER-products are in permanent use by crane manufacturers, in smelting works, on transshipment stations, maritime freight handling agencies and many other crane operators.

What we can do for you:

Long-term experience and ongoing commitment in research and development enable us to offer costumer and application-taylored solutions.

The travel wheels are designed according to standards, costumer's drawings or construction proposals by our engineering department that have been authorised by you.

As technical base standards serve, costumer's drawings, technical data, load calculations or just simple sketches. The rest will be done by our experts.

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Example of designation

driven wheel with a broad running wheel (B), with big gear ring (G), tread diameter $d_1 = 630\text{mm}$ and width $b_1 = 110\text{mm}$

Driven crane wheel BG 630 x 110 - BIS 2075

In case of inquiry or order please specify:

- special sizes / modifications
- material for the wheel and gear ring (see site 6)

Model code

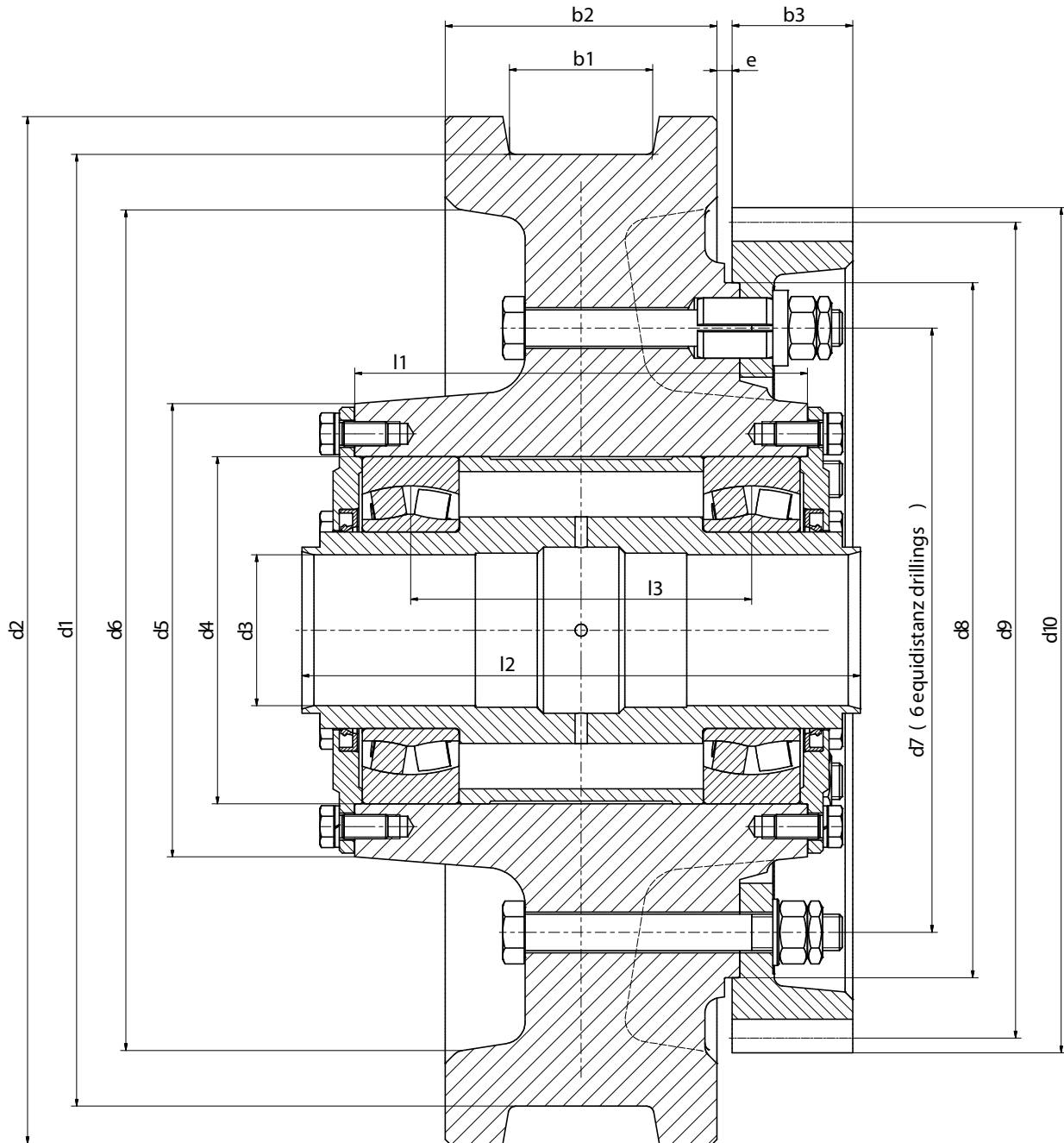
Type code	Description
S	narrow wheel
B	broad wheel
G	big gear ring
K	small gear ring

No wheel is like the other...

Wheels only rarely base on regular standards. Often used are special constructions of the running tread dimensions, the gear connection or the material. According to individual operating conditions, the components are subject to totally different requirements which only can be met by detailed construction adjustments.

Here you get what you need!

Crane wheel with spherical roller bearings - driven



Crane wheel with spherical roller bearings type 222..

d1 h9	type	b1 max.	b2	b3	e	l1	l2	l3	d2	d3 D10	d4 H7/r6	d5 min.	d6	d7	d8 H7/h9	d9	d10 h11	z	m	bearing DIN 635
315*	SG	55	90	60	15	190	250	140	350	60	160	220	270	-	210	312	324	52	6	222 18
	BG	65	110			210	270	160												
400*	SK	65	110	65	15	220	280	164	440	80	180	240	345	-	230	320	336	40	8	222 20
	SG					400	416	50												
	BK	320	336			40														
	BG	90	140			250	310	194								400	416	50		
500*	SK	65	110	70	15	230	290	162	540	90	215	285	435	-	275	420	440	42	10	222 24
	SG					490	510	49												
	BK	420	440			42														
	BG	90	140			260	320	192								490	510	49		
630	SK	75	120	80	20	260	330	186	680	100	230	300	560	400	460	540	560	54	10	222 26
	SG					450	510	620						640	62					
	BK	400	460			540	560	54												
	BG	110	160			300	370	226						450	510	620	640	62		
710	SK	90	140	90	20	300	370	217	760	110	270	340	630	450	510	600	624	50	12	222 30
	SG					520	580	686						710	58					
	BK	450	510			600	624	50												
	BG	160	210			370	440	287						520	580	686	710	58		
800	SK	90	140	100	20	320	390	230	850	125	290	360	710	550	610	696	720	58	12	222 32
	SG					600	660	792						816	66					
	BK	550	610			696	720	58												
	BG	160	210			390	460	300						600	660	792	816	66		
900	SK	90	140	110	20	340	410	244	950	140	320	390	805	620	680	812	784	56	14	222 36
	SG					690	750	910						882	63					
	BK	620	680			812	784	56												
	BG	160	210			410	480	314						690	750	910	882	63		
1000	SK	90	140	110	20	330	410	222	1050	160	360	450	900	710	790	896	924	64	14	222 40
	SG					760	840	980						1008	70					
	BK	710	790			896	924	64												
	BG	160	210			400	480	292						760	840	980	1008	70		
1120	BK	160	220	125	20	440	520	322	1180	180	400	490	1010	800	880	992	1024	62	16	222 44
	BG													870	950	1088	1120	68		
1250	BK	160	220	125	20	440	520	310	1310	200	440	530	1140	920	1000	1120	1152	70	16	222 48
	BG													1000	1080	1216	1248	76		

* Execution do not comply with the drawing. The gear ring is fixed together with the cover's screws.
Connection dimensions and distances as specified in the table.

Crane wheel with spherical roller bearings type 223..

d1 h9	type	b1 max.	b2	b3	e	l1	l2	l3	d2	d3 D10	d4 H7/r6	d5 min.	d6	d7	d8 H7/h9	d9	d10 h11	z	m	bearing DIN 635
315*	SG	55	90	60	15	190	250	122	350	60	170	230	270	-	210	312	324	52	6	223 16
	BG	65	110			210	270	142												
400*	SK	65	110	65	15	220	280	137	440	80	215	275	345	-	230	320	336	40	8	223 20
	SG					400	416	50												
	BK	320	336			40														
	BG	400	416			50														
500*	SK	65	110	70	15	230	290	140	540	90	240	310	435	-	275	420	440	42	10	223 22
	SG					490	510	49												
	BK	420	440			42														
	BG	490	510			49														
630	SK	75	120	80	20	260	330	164	680	100	260	330	560	400	460	540	560	54	10	223 24
	SG					450	510	620						640	62					
	BK	400	460			540	560	54												
	BG	450	510			620	640	62												
710	SK	90	140	90	20	300	370	188	760	110	300	370	630	450	510	600	624	50	12	223 28
	SG					520	580	686						710	58					
	BK	450	510			600	624	50												
	BG	520	580			686	710	58												
800	SK	90	140	100	20	320	390	202	850	125	320	390	710	550	610	696	720	58	12	223 30
	SG					600	660	792						816	66					
	BK	550	610			696	720	58												
	BG	600	660			792	816	66												
900	SK	90	140	110	20	340	410	210	950	140	360	450	805	620	680	812	784	56	14	223 34
	SG					690	750	910						882	63					
	BK	620	680			812	784	56												
	BG	690	750			910	882	63												
1000	SK	90	140	110	20	330	410	188	1050	160	400	490	900	710	790	896	924	64	14	223 38
	SG					760	840	980						1008	70					
	BK	710	790			896	924	64												
	BG	760	840			980	1008	70												
1120	BK	160	220	125	20	440	520	285	1180	180	460	550	1010	800	880	992	1024	62	16	223 44
	BG													870	950	1088	1120	68		
1250	BK	160	220	125	20	440	520	275	1310	200	500	590	1140	920	1000	1120	1152	70	16	223 48
	BG													1000	1080	1216	1248	76		

* Execution do not comply with the drawing. The gear ring is fixed together with the cover's screws.
Connection dimensions and distances as specified in the table.

Our material preselection ...

Choose the optimal material for your application.

Due to many years of experience, we are able to offer you an exclusive preselection of excellent materials. Using the following materials, you are always on the safe side. Next to technical issues, we also consider economic aspects to be able to offer you price and performance in the best relationship.

Wheels made of cast steel

short name	heat treatment	tensile strength R_m in N/mm ²
GE300 (GS-60)	normalised (+N)	520 bis 670
GS-70	normalised (+N)	> 690
G34CrMo4	quenched & tempered (+QT2)	830 bis 980
G42CrMo4	quenched & tempered (+QT2)	850 bis 1000
G50CrMo4	quenched & tempered (+QT2)	900 bis 1100
GS-35NiCrMo14	quenched & tempered (+QT2)	1000 bis 1200
GS-35CrMoV10.4	quenched & tempered (+QT2)	1050 bis 1200
ADIDUR	quenched & tempered (+QT2)	> 940
GS-34CrNiMo6 ¹⁾	quenched & tempered (+QT2)	900 bis 1100
GS-33NiCrMo744 ¹⁾	quenched & tempered (+QT2)	1050 bis 1250

1) cryogenic steel for use at low temperatures

Gear rings made of...

cast steel:

- GS-52
- GS-60
- GS-70
- G-42CrMo4 +QT2,
- GS-34CrNiMo6 +QT2 (cryogenic steel)

forged steel:

- S355J2
- C45 +N
- C60 +N
- 42CrMo4 +QT
- 34CrNiMo6 +QT (cryogenic steel)

Further material information

On our website you can download data sheets of all above mentioned materials.

Visit us on:

www.boehmer-crane-wheels.com

Wheels made of forged steel

short name	heat treatment	tensile strength R_m in N/mm ²
C45	normalised (+N)	> 560
C60	normalised (+N)	> 650
34CrMo4	quenched & tempered (+QT2)	750 bis 900
42CrMo4	quenched & tempered (+QT2)	800 bis 950
50CrMo4	quenched & tempered (+QT2)	850 bis 1000
30CrNiMo8	quenched & tempered (+QT2)	1000 bis 1200
34CrNiMo6 ¹⁾	quenched & tempered (+QT2)	900 bis 1100

1) cryogenic steel for use at low temperatures

Further components

Further components like covers, bushings, distance rings, were normally made of S355J2.

All other parts meet the regulations of the respective standard.

Different to the DIN 15090 standard, we use self-locking nuts according to DIN 980 to fix the bearings housings.

Do you need special designed components?

Please specify in your inquiry / order.

General information

Technical design

The technical design of the wheels needn't automatically correspond to standards. The construction can be adjusted in almost any parameter to fulfil the customer's demands. This corresponds to the geometric design, the materials used as well as different bearings.

All mentioned standards just serve as a basic orientation.

Materials

The materials mentioned and properties of this BIS collection are obtained from current valid DIN EN standards. Our material preselection is based on experience and does not serve as binding specification. According to your requirements, other materials can be provided.

Painting and conservation

If there is no specification concerning painting and conservation, our wheels are executed to our standard. This comprises a surface painting with a one-component zinc phosphate primer in RAL 7031 (slate blue) and the conservation of all contact- and function surfaces, as well as the shaft endings with Tectyl 506 EH-40.

Customised paintings, as well as complete painting systems to supplier specifications are certainly possible.

Prices and delivery time

Almost every construction supplied by us is individually designed. Numerous executions make it impossible to give prices in advance. Please ask for price and delivery time. It will be our pleasure to help.



Your personal contact - competent and friendly

Inquiry

In order to be able to reply to your inquiry as soon as possible, it is important to provide us with all necessary information.

Please contact us for further information and support!

Sales

Export

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Technology

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Our responsibility

Quality Management according to ISO 9001:2015



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