BÖHMER
Zerspanungstechnik GmbH & Co. KG

BIS 2078

Crane wheels with roller bearings - non driven and 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.

DIN 15078 - 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.

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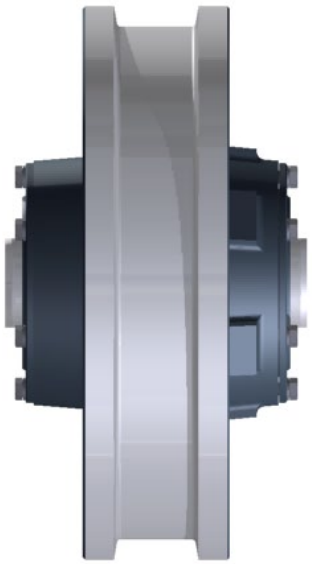


Example of designation

Non driven wheel with a broad running wheel (B), tread diameter d_1 = 630mm and width b_1 = 110mm and spherical roller bearings type 222..

Driven cranne wheel B 630 x 110 - 222 BIS 2078

bei Anfragen / Bestellung bitte stets zusätzlich angeben:

- special sizes / modifications
- material for wheel (see site 5)

Formverschlüsselung

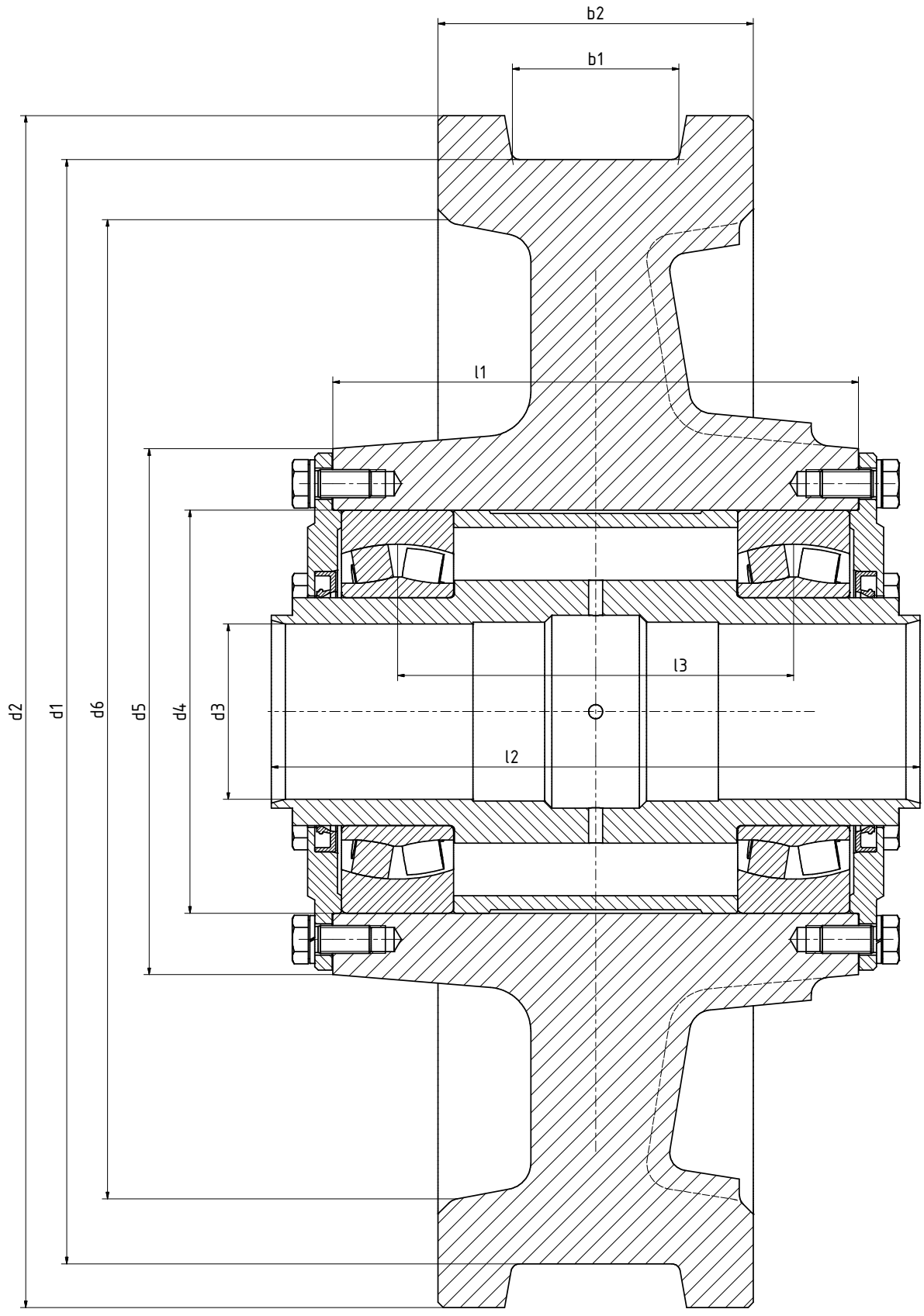
Type code	Description
S	narrow wheel
B	broad wheel

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 - non driven



Crane wheel with spherical roller bearings type 222..

d1 h9	type	b1 max.	b2	d2	d3 D10	d4 M7	d5 min.	d6 max.	l1	l2	l3	bearing DIN 635
315	S	55	90	350	60	160	220	270	250	190	140	**222** 18
	B	65	110						270	210	160	
400	S	65	110	440	80	180	240	345	280	220	164	**222** 20
	B	90	140						310	250	194	
500	S	65	110	540	90	215	285	435	290	230	162	**222** 24
	B	90	140						320	260	192	
630	S	75	120	680	100	230	300	560	330	260	186	**222** 26
	B	110	160						370	300	226	
710	S	90	140	760	110	270	340	630	370	300	217	**222** 30
	B	160	210						440	370	287	
800	S	90	140	850	125	290	360	710	390	320	230	**222** 32
	B	160	210						460	390	300	
900	S	90	140	950	140	320	390	805	410	340	244	**222** 36
	B	160	210						480	410	314	
1000	S	90	140	1050	160	360	450	900	410	330	222	**222** 40
	B	160	210						480	400	292	
1120	S	160	220	1180	180	400	490	1010	520	440	322	**222** 44
1250	S	160	220	1310	200	440	530	1140	520	440	310	**222** 48

Crane wheel with spherical roller bearings type 223..

d1 h9	type	b1 max.	b2	d2	d3 D10	d4 M7	d5 min.	d6 max.	l1	l2	l3	bearing DIN 635
315	S	55	90	350	60	170	230	270	250	190	122	**223** 16
	B	65	110						270	210	142	
400	S	65	110	440	80	215	275	345	280	220	137	**223** 20
	B	90	140						310	250	167	
500	S	65	110	540	90	240	310	435	290	230	140	**223** 22
	B	90	140						320	260	170	
630	S	75	120	680	100	260	330	560	330	260	164	**223** 24
	B	110	160						370	300	204	
710	S	90	140	760	110	300	370	630	370	300	188	**223** 28
	B	160	210						440	370	258	
800	S	90	140	850	125	320	390	710	390	320	202	**223** 30
	B	160	210						460	390	272	
900	S	90	140	950	140	360	450	805	410	340	210	**223** 34
	B	160	210						480	410	280	
1000	S	90	140	1050	160	400	490	900	410	330	188	**223** 38
	B	160	210						480	400	258	
1120	S	160	220	1180	180	460	550	1010	520	440	285	**223** 44
1250	S	160	220	1310	200	500	590	1140	520	440	275	**223** 48

Our material preselection ...

Choose the optimal material for your application.
Due to many years of experince, 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/mm²
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

Wheels made of forged steel

short name	heat treatment	tensile strength R_m in N/mm²
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.

Further material information

On our website you can download data sheets of all above mentioned materials.
Visit us on:

www.boehmer-crane-wheels.com

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 costumer´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 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.
Costumised 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 please to help.

BÖHMER
Zerspanungstechnik GmbH & Co. KG

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!

Your personal contact - competent and friendly

Sales

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Our responsibility

Quality Management according to ISO 9001:2015

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