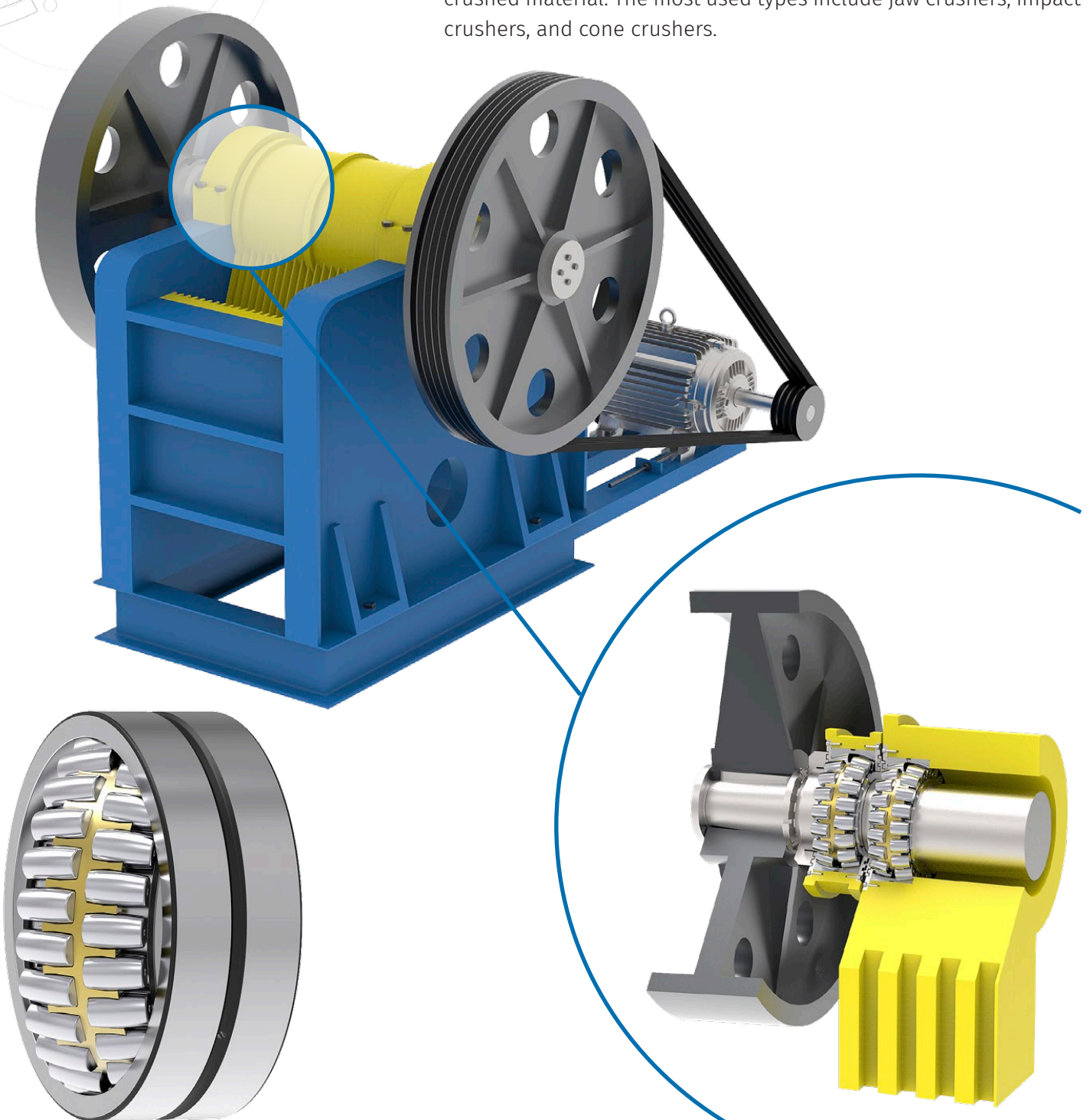


ZKL bearings for crushers



ZKL GROUP

Crushers are devices used to crush large pieces of material, typically stone, into smaller fragments. However, their use is not only limited to the mining industry, but they are also used to simplify recycling or waste disposal processes. There are many types of crushers, each with its specific application depending on the characteristics of the crushed material. The most used types include jaw crushers, impact crushers, and cone crushers.



ZKL bearings for crushers

High-quality bearings play a crucial role in the failure-free operation of crushers. Crushing rock or other material occurs high impact loads on the crusher bearings, which, combined with a dusty environment, creates very demanding working conditions. Spherical roller bearings of the series 231, 223, and 232 are mostly mounted on the eccentric shafts of crushers. Due to vibrations, bearings with a massive brass cage in the EMH design are used. Regular maintenance is also important for the proper operation of bearings, especially the correct continuous relubrication with grease.

Spherical roller bearings for crushers

	Bearing dimensions			Load ratings		Mass
	Inner diameter	Outer diameter	Width	Dynamic	Static	
	d [mm]	D [mm]	B [mm]	Cr [kN]	C0r [kN]	m [kg]
23224EKW33MH C3 NF	120	215	76	750	1020	11,8
23126EW33MH C3 NF	130	210	64	620	913	8,6
23238EKW33MH C3 NF	190	340	120	1730	2530	45,1
23140EW33MH C3 NF	200	340	112	1630	2410	41,5
23264EKW33MH C3 NF	320	580	208	4650	7590	232
23168EW33MH C3 NF	340	580	190	4240	7080	207
22330EW33MH C3 NF	150	320	105	1520	1850	41,1
22356EW33MH C3 NF	280	580	175	3840	5340	214
22380EW33MH C3 NF	400	820	243	7060	11010	603

The bearings listed above are the most used ones for such application. To get more information regarding the entire production range of ZKL's spherical roller bearings contact your local sales representative.

Spherical roller bearings are designed to handle high radial and axial loads in both directions. Due to the spherical shape of the outer ring's raceway, they can compensate angular misalignment caused, for example, by shaft deflection. A disadvantage of this type of bearings is the lower maximum speed compared to cylindrical roller or tapered roller bearings. Because of these characteristics, spherical roller bearings are an ideal solution for machines in heavy industry, mining, energy, and many other sectors.

ZKL offers several different versions of spherical roller bearings suitable for different applications, such as with steel cage, a single-piece or two-piece brass cage, cylindrical or tapered bore, etc. ZKL continuously works on the development of spherical roller bearings and the optimization of their internal geometry to achieve the highest possible load capacities and furtherly increase their reliability. These newly developed bearings are branded as NEW FORCE and are comparable in performance parameters to premium brands on the market.

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