Autoround®

QUALITY PARTS

INSERT SPHERICAL BEARING

ISO TS 16949

Provide quality products and trustworthy services to global auto parts consumers

COMPANY PROFILE

Hangzhou DUHUI Auto Parts Co., Ltd. was established in 2003 and is located in Xiaoshan District Economic Development Zone, Hangzhou City. The company integrates supply chain development, quality management, warehousing, business operations, and other management capabilities, and is built through an information system to provide customers with one-stop services product solutions.

DUHUI has been focusing on automotive bearings for 20+ years, it mainly produces wheel hub, wheel bearing, release bearing, insert spherical bearing, etc., covering more than 4,000+ auto parts models, including all mainstream models on the market.

QUALITY CONTROL






We have installed a complete line of international-advanced production equipments and implemented fabrication technology. The equipments include SIGMA numberically controlled lathe Durability Test Machine, etc.

TESTING CENTER






We installed a complete international-advanced testing and examining equipments to ensure the quality of our products. Our Quality Department strictly test each unit according to ISO/TS standards.

INSERT SPHERICAL BEARING

The insert spherical bearing is actually a variant of the deep groove ball bearing. Its characteristic is that the insert diameter surface of the insert ring is a spherical surface, which can cooperate with the corresponding concave spherical surface of the bearing seat to achieve alignment. This kind of bearing is mainly used to bear the combined radial and axial load, which is mainly radial load, but it is generally not suitable to bear the axial load alone.

Structurally, insert spherical bearings have the characteristics of automatic alignment, large load capacity, long service life, excellent sealing performance, easy installation and prevention of insert ring rotation. In particular, it adopts a double-layer sealing design to ensure that dust cannot easily enter the interior of its channels under harsh use environments.

Insert spherical bearings are widely used in automobiles, aviation, aerospace, agriculture and industrial equipment and other fields. Among them, the automotive field is one of the largest markets. insert spherical bearings are mainly used in components such as engines, transmissions, rear axles and steering gears. They can withstand high-speed rotation, high temperature, high pressure and high impact loads to ensure vehicle performance and safety.

INSERT SPHERICAL BEARING TYPE

Insert spherical ball bearings can be divided into: UC series, UK series according to the way of cooperation with the shaft.

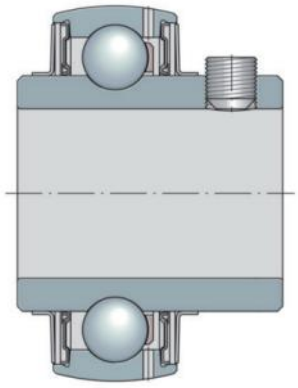
Insert spherical ball bearings with top screws: their codes are UC200 series (light series) and UC300 series (heavy duty series). If the usage environment is small, generally choose the UC200 series, otherwise choose the UC300 series. This kind of bearing has sealing rings on both sides, which can strictly prevent the intrusion of dirt. It has been filled with an appropriate amount of lubricant before leaving the factory. There is no need to clean or add lubricant before installation.

Tapered insert spherical ball bearings: their code names are UK200 series and UK300 series. The inner diameter of this type of insert spherical ball bearing is a tapered inner hole with a ratio of 1:12, and it must be used in conjunction with an adapter sleeve. Its characteristic is that it can bear a larger load than a spherical ball bearing with a top wire.

Insert spherical ball bearings with top screws: UC

Cylindrical hole, with top screws

Insert spherical ball bearings with top screws are often equipped with two top screws with an included angle of 120°to fix the shaft. However, during use, you need to pay attention to the limitations of the environmental vibration range.

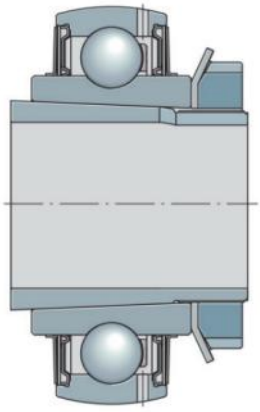


The inner ring of the UC insert spherical bearing is designed with a cylindrical hole and is connected to the shaft through the cylindrical hole. UC insert spherical bearings have self-aligning characteristics and can compensate for axis misalignment caused by installation errors or shaft deformation. This type of bearing is suitable for a variety of mechanical equipment, especially those requiring self-aligning and moderate load applications.

Tapered insert spherical ball bearings: UK

Tapered hole, fastening sleeve

The inner hole of the tapered bore spherical ball bearing is a tapered hole with a taper of 1:12. It can be directly installed on a tapered shaft, or installed on a shoulderless smooth shaft with the help of a tightening bushing, and the bearing clearance can be fine-tuned.



The inner ring of this insert spherical bearing is designed with a tapered hole and can be used in conjunction with a tapered sleeve. This design enables UK insert spherical bearings to have higher load-bearing capacity and better self-locking performance. UK insert spherical bearings also have self-aligning characteristics, which can compensate for axis misalignment to a certain extent.

Inherited Model	Picture	Shaft Diameter(mm)	Dimensiones						
			D	Bi	Be	n	m	g	ds mm
UC202		15	40	27.4	14	11.5	15.9	4.5	M5x0.8
UC203		17	40	27.4	14	11.5	15.9	4.5	M5x0.8
UC204		20	47	31.0	17	12.3	18.7	5.0	M6x1.0
UC205		25	52	34.1	17	14.3	19.8	5.0	M6x1.0
UC206		30	62	38.1	19	15.9	22.2	5.0	M6x1.0
UC207		35	72	42.9	20	17.5	25.4	7.0	M8x1.0
UC208		40	80	49.2	21	19.0	30.2	8.0	M8x1.0
UC209		45	85	49.2	22	19.0	30.2	8.0	M8x1.0
UC210		50	90	51.6	22	19.0	32.6	10.0	M10x1.25
UC211		55	100	55.6	25	22.2	33.4	10.0	M10x1.25

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD
Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.
Tel:+86-571-87750727 E-mail: market@dh-auto.cn Website: www.autoround-parts.com

Inherited Model	Picture	Shaft Diameter(mm)	Dimensiones						
			D	Bi	Be	n	m	g	ds mm
UC212		60	110	65.1	27	25.4	39.7	10.0	M10x1.25
UC213		65	120	65.1	29	25.4	39.7	10.0	M10x1.25
UC214		70	125	74.6	30	30.2	44.4	12.0	M12x1.5
UC215		75	130	77.8	30	33.3	44.5	12.0	M12x1.5
UC216		80	140	82.6	33	33.3	49.3	12.0	M12x1.5
UC217		85	150	85.7	35	34.1	51.6	12.0	M12x1.5
UC218		90	160	96.0	37	39.7	56.3	12.0	M12x1.5
UC305		25	62	38.0	20	15.0	23.0	6.0	M6x1.0
UC306		30	72	43.0	23	17.0	26.0	6.0	M8x1.0
UC307		35	80	48.0	25	19.0	29.0	8.0	M8x1.0

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD
Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.
Tel:+86-571-87750727 E-mail: market@dh-auto.cn Website: www.autoround-parts.com

Inherited Model	Picture	Shaft Diameter(mm)	Dimensiones						
			D	Bi	Be	n	m	g	ds mm
UC308		40	90	52.0	27	19.0	33.0	10.0	M10x1.25
UC309		45	100	57.0	29	22.0	35.0	10.0	M10x1.25
UC310		50	110	61.0	32	22.0	39.0	12.0	M12x1.50
UC311		55	120	66.0	34	25.0	41.0	12.0	M12x1.50
UC312		60	130	71.0	36	26.0	45.0	12.0	M12x1.50
UC313		65	140	75.0	38	30.0	45.0	12.0	M12x1.50
UC314		70	150	78.0	40	33.0	45.0	12.0	M12x1.50
UC315		75	160	82.0	42	32.0	50.0	14.0	M14x1.50
UC316		80	170	86.0	44	34.0	52.0	16.0	M16x1.50
UC317		85	180	96.0	46	40.0	56.0	16.0	M16x1.50

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD
Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.
Tel:+86-571-87750727 E-mail: market@dh-auto.cn Website: www.autoround-parts.com

Inherited Model	Picture	Shaft Diameter(mm)	Dimensiones						
			D	Bi	Be	n	m	g	ds
									mm
UC318		90	190	96.0	48	40.0	56.0	16.0	M16x1.50
UC206-17		26.987	62	38.1					
UC207-22		34.952	72	42.9					
UC207-23		36.512	72	42.9					
UC208-24		38.1	80	49.2					
UC209-27		42.862	85	49.2					
UC210-30		47.625	90	51.6					
UC210-31		49.212	90	51.6					
UC212-32		60	110	65.1					
UC213-40		63.5	120	65.1					

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD
Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.
Tel:+86-571-87750727 E-mail: market@dh-auto.cn Website: www.autoround-parts.com

Inherited Model	Picture	Shaft Diameter(mm)	Dimensiones						
			D	Bi	Be	n	m	g	ds
									mm
UC214-44		69.85	125	74.6					

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD
Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.
Tel:+86-571-87750727 E-mail: market@dh-auto.cn Website: www.autoround-parts.com

HANGZHOU DUHUI AUTOMOTIVE PARTS CO.,LTD

Add:Economic Development Zone, Xiaoshan District ,Hangzhou,China.

Tel:+86-571-87750727

Website: www.autoround-parts.com

E-mail: market@dh-auto.cn

Provide quality products and trustworthy services to global auto parts consumers

ISO TS 16949