



国家高新技术企业
NATIONAL HIGH-TECHNOLOGY ENTERPRISE
国家级专精特新“小巨人”企业
NATIONAL-LEVEL SPECIALIZED, REFINED, UNIQUE AND
INNOVATIVE "LITTLE GIANT" ENTERPRISE



地址：山东省临清市松林镇斗松路18号
Add: 18 DOUSONG ROAD, SONGLIN TOWN,
LINQING CITY, SHANDONG PROVINCE, CHINA

电话/TEL: 0635 2690009

传真/FAX: 0635 2690000

邮编/POSTCODE: 252652

Http://www.fumazc.com

E-mail:xs@fumazc.com

全国免费热线: 400-0635-568

山东福马轴承有限公司
SHANDONG FU MA BEARING CO.,LTD



公司简介 Company Profile

山东福马轴承有限公司是一家致力于高端关节轴承研发、生产与销售为一体的国家高新技术企业，公司具有近20年的生产经营历史，公司注册资本1618万元，自公司成立以来，连年快速发展，目前公司规模和研发实力已跃居全国轴承行业同类产品生产企业前列。公司的主导产品为润滑型、自润滑型全结构类型的关节轴承，内径尺寸范围覆盖Φ4mm-Φ1200mm，累计生产品种1000余种。产品广泛配套于机器人、无人机、工程机械、汽车工业、军工航天、海洋装备、新能源发电、水设备、矿山冶金等领域，畅销国内，替代进口并远销美国、德国、意大利、瑞典、俄罗斯、巴西、墨西哥、土耳其等国家。

多年来，公司先后获得了国家高新技术企业、国家级专精特新小巨人企业、山东省质量标杆企业、山东省专精特新企业、山东省制造业单项冠军企业、山东省首台套技术装备企业和山东省高端品牌培育企业荣誉，是中国轴承工业协会理事单位、全国滚动轴承标准化技术委员会关节轴承分委员会委员单位、山东省机械工业协会副会长单位和全国“五一劳动奖章”个人奖所在单位。

山东福马轴承有限公司作为关节轴承领域的领军企业之一，凭借深厚的技术积淀与持续的创新突破，始终恪守卓越品质的制造理念，为客户提供全流程的专业服务解决方案。

Shandong Fuma Bearing Co., Ltd. is a national high-tech enterprise dedicated to the research, development, production, and sales of high-end plain bearings. With nearly 20 years of operating history, the company has a registered capital of 16.18 million RMB. Since its establishment, it has experienced rapid growth year after year, and now ranks among the top domestic manufacturers in the bearing industry in terms of scale and R&D capabilities. The company specializes in producing lubricated and self-lubricating full-structure plain bearings, with an inner diameter range covering 4mm to 1200mm, and has cumulatively manufactured over 1,000 product types. Its products are widely used in robotics, drones, construction machinery, automotive industries, military aerospace, marine equipment, new energy power generation, water treatment systems, mining and metallurgy, among other fields. They are popular domestically, replacing imported products and exported to countries including the United States, Germany, Italy, Sweden, Russia, Brazil, Mexico, and Turkey.

Over the years, the company has received numerous honors, including National High-Tech Enterprise, National Specialized, Refined, Unique, and Innovative "Little Giant" Enterprise, Shandong Provincial Quality Benchmark Enterprise, Shandong Provincial Specialized, Refined, Unique, and Innovative Enterprise, Shandong Provincial Manufacturing Single Champion Enterprise, Shandong Provincial First Set of Technical Equipment Enterprise, and Shandong Provincial High-End Brand Cultivation Enterprise. It serves as a council member of the China Bearing Industry Association, a committee member of the National Rolling Bearing Standardization Technical Committee's Plain Bearing Sub-committee, vice president unit of the Shandong Machinery Industry Association, and the recipient of the national "May 1st Labor Medal" individual award.

As one of the leading enterprises in the plain bearing sector, Shandong Fuma Bearing Co., Ltd. leverages its profound technical expertise and continuous innovation to uphold a manufacturing philosophy centered on excellence, providing customers with professional, end-to-end service solutions.



IATF16949质量体系认证
IATF16949 Quality Management Certificate



环境管理体系认证证书
ISO 14001 Certificate of Environmental Management System



职业健康安全管理体系认证证书
ISO 45001 Certificate of Occupational Health and Safety Management System



高新技术企业证书
High-tech Enterprise Certificate



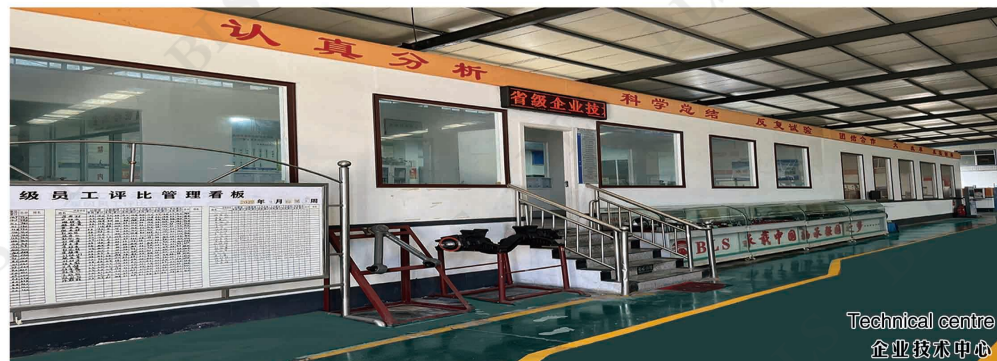
国家级专精特新“小巨人”企业
National-level Specialized, Refined, Unique and Innovative "Little Giant" Enterprise



山东省质量标杆
Shandong Provincial Quality Benchmark

Enterprise Snapshot 企业概要

33,000m ² Floor Space 占地面积	6,000,000 Annual Production Volume 年产量 (套)	120 Employees 员工人数	50 Fully Automatic Production Lines 全自动生产线	30 Countries Sold 销售国家
---	--	--------------------------	--	------------------------------



产品 Products



轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
润滑型向心关节轴承 Radial spherical plain bearings requiring maintenance				
	GE...E 4~12	钢/钢 Steel/Steel	-50℃~+150℃	外圈有一道轴向缝，内、外圈材料均为轴承钢，淬火，磷化。除型号后置代号为E外，其余型号内、外圈均有润滑油槽油孔，后置代号有-2RS为外圈两端带有密封圈。
	GE...ES 15~300			There is an axial seam on the outer ring. Both the inner and outer rings are made of bearing steel, which is quenched and phosphated. Except for the model with the suffix code E, all other models have lubricating oil grooves and oil holes on both the inner and outer rings. The suffix code -2RS indicates that the outer ring has sealing rings at both ends.
	GE...ES-2RS 15~300		-30℃~+130℃	
	GEC...XS 320~460		-50℃~+150℃	外圈沿轴向剖分成两半，用锁圈固定，内、外圈材料均为轴承钢，淬火，磷化，后置代号为-2RS为外圈两端带有密封圈。
	GEC...XS-2RS 320~460		-30℃~+130℃	Outer ring is split into two halves along the axial direction and fixed with a lock ring. Both the inner and outer rings are made of bearing steel, quenched and phosphated. The suffix code -2RS indicates that the outer ring has sealing rings at both ends.
	GEG...E 4~12		-50℃~+150℃	外圈有一道轴向缝，内、外圈材料均为轴承钢，淬火，磷化。除型号后置代号为E外，其余型号内、外圈均有润滑油槽油孔，后置代号有-2RS为外圈两端带有密封圈。
	GEG...ES 15~280			There is an axial seam on the outer ring. Both the inner and outer rings are made of bearing steel, which is quenched and phosphated. Except for the model with the suffix code E, all other models have lubricating oil grooves and oil holes on both the inner and outer rings. The suffix code -2RS indicates that the outer ring has sealing rings at both sides.
	GEG...ES-2RS 15~280		-30℃~+130℃	

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GEEW...ES 12~320	钢/钢 Steel/Steel	-50℃~+150℃	内圈两端带伸出圆筒，外圈有一道轴向缝，内、外圈材料均为轴承钢，淬火，磷化，后置代号有-2RS为外圈两端带有密封圈。
	GEEM...ES-2RS 20~120		-30℃~+130℃	Both sides of the inner ring protrude from the cylinder, and the outer ring has an axial slit. Both the inner and outer rings are made of bearing steel, quenched and phosphated. The suffix code -2RS indicates that the outer ring has sealing rings at both sides.
	GEF...ES 12~150		-50℃~+150℃	产品特点与GE...ES系列相同。 As series GE...ES.
	GE...XS/K 12~150			产品特点与GEC...XS系列相同。 As series GEC...XS.
	GEZ...ES 12.7~304.8			产品特点与GE...ES系列相同，但为英制尺寸。 As series GE...ES, but with inch dimensions.
	GEZ...ES-2RS 19.05~304.8		-30℃~+130℃	产品特点与GE...ES-2RS系列相同，但为英制尺寸。 As series GE...ES-2RS, but with inch dimensions
	GEWZ...ES 12.7~152.4		-50℃~+150℃	产品特点与GEEW ... ES系列相同，但为英制尺寸。 As series GEEW...ES, but with inch dimensions
	GEWZ...ES-2RS 19.05~152.4		-30℃~+130℃	产品特点与GEEM ... ES- 2RS系列相同，但为英制尺寸。 As series GEEM...ES-2RS, but with inch dimensions
	GEGZ...ES 31.75~139.7		-50℃~+150℃	产品特点与GEG...ES系列相同，但为英制尺寸。 As series GEG...ES, but with inch dimensions

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GEGZ...ES-2RS 31.75~139.7	钢/钢 Steel/Steel	-30℃~+130℃	产品特点与GEG ... ES - 2RS系列相同，但为英制尺寸。 As series GEG...ES-2RS, but with inch dimensions.
	GEGZ...HS/K 12.7~152.4		-50℃~+150℃	外圈径向分成两半，中间有一隔套，内、外圈材料均为轴承钢，淬火，磷化。 Outer ring is radially divided into two halves, with a spacer sleeve in the middle. Both the inner and outer rings are made of bearing steel, quenched and phosphated.
	GEK...XS-2RS 25~60		-25℃~+120℃	外圈沿轴向剖分成两半，用锁圈固定。内、外圈材料均为轴承钢，淬火，内圈球面镀铬，外圈两端带有密封圈。 Outer ring is split into two halves along the axial direction and fixed with a lock ring. Both the inner and outer rings are made of bearing steel, quenched. The inner ring's spherical surface is hard-chrome plated, and the outer ring is equipped with sealing rings at both ends.
	GEBJ...S 5~50		-50℃~+150℃	外圈材料为碳钢，挤压成形；内圈材料为轴承钢，淬火，球面镀铬。 Outer ring is made of carbon steel and formed by extrusion. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GEFZ...S 4.83~25.4			外圈材料为碳钢，挤压成形；内圈材料为轴承钢，淬火，球面镀铬。 Outer ring is made of carbon steel and formed by extrusion. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GEBK...S 5~30	钢/青铜 Steel/Bronze		外圈材料为碳钢，镶有青铜衬垫；内圈材料为轴承钢，淬火，球面镀铬。 Outer ring is made of carbon steel and is inlaid with bronze gaskets. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
自润滑型向心关节轴承 Radial spherical plain bearings maintenance-free				
	GE...C 4~50	钢/PTFE 复合材料 Steel/PTFE composite material	-50℃~+150℃	外圈材料为碳钢，挤压成形，球面衬有PTFE复合材料；内圈材料为轴承钢，淬火，球面镀铬。 Outer ring material is carbon steel, formed by extrusion, and the spherical surface is lined with PTFE composite material. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GEG...C 4~45			外圈材料为碳钢，挤压成形，球面衬有PTFE复合材料；内圈材料为轴承钢，淬火，球面镀铬。 Outer ring material is carbon steel, formed by extrusion, and the spherical surface is lined with PTFE composite material. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GEBJ...C 5~30	钢/PTFE 复合材料 Steel/PTFE composite material	-50℃~+150℃	产品特点与GE...C系列相同。 As series GE...C.
	GEFZ...C 4.83~25.4			产品特点与GE...C系列相同, 但为英制尺寸。 As series GE...C, but with inch dimensions.
	GE...N 10~60	钢/PTFE 塑料 Steel/PTFE plastic	-40℃~+75℃	内、外圈材料均为轴承钢, 淬火, 球面衬有PTFE塑料, 内圈球面镀铬。
	GEG...N 8~50			Both the inner and outer rings are made of bearing steel, quenched, with PTFE plastic lining on the spherical surface and hard chromium plating on the inner ring surface.
	GEFZ...T 4.83~25.4	钢/PTFE 编织物 Steel/PTFE fabric	-50℃~+150℃	外圈材料为碳钢, 球面粘贴PTFE编织物, 挤压成形, 内圈材料为轴承钢, 淬火, 球面镀铬。
	GEH...HC 100~1000	钢/PTFE 复合材料 Steel/PTFE composite material	-50℃~+150℃	Outer ring is made of carbon steel, with PTFE woven fabric pasted on the spherical surface and extruded into shape. The inner ring is made of bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GEH...HCS 100~1000			外圈径向分为两半, 用螺钉锁紧, 材料为碳钢, 磷化, 球面衬有PTFE复合材料; 内圈材料为轴承钢, 淬火, 球面镀铬, 型号后置代号加S, 表示内圈有润滑油槽油孔。
	GEC...HC 320~1000			Outer ring is radially divided into two halves and locked with screws. The material is carbon steel, phosphated, and the spherical surface is lined with PTFE composite material. The inner ring material is bearing steel, quenched, with hard chromium plating on the spherical surface. The model code is followed by "S", indicating that there is an oil groove or oil hole on the inner ring.
	GEC...HCS 320~1000			产品特点与GEC...HC(S)系列相同 As series GEC...HC(S)

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GE...ET-2RS 15~120	钢/PTFE 编织物 Steel/PTFE fabric	-30℃~+130℃	外圈有一道轴向缝, 两端带有密封圈, 材料为轴承钢, 淬火, 磷化, 球面粘贴PTFE编织物; 内圈材料为轴承钢, 淬火, 球面镀铬。型号后置代号为XT, 表示外圈沿轴向剖分成两半, 用锁圈固定。 There is an axial seam on the outer ring, with sealing rings at both ends. The material is bearing steel, quenched, phosphated, and the spherical surface is pasted with PTFE woven fabric. The inner ring material is bearing steel, quenched, and the spherical surface is hard chromium plated. The model suffix code is XT, indicating that the outer ring is split into two halves along the axial direction and fixed with a lock ring.
	GE...XT-2RS 140~300			产品特点与GE...E(X)T-2RS系列相同。 As series GE...E(X)T-2RS.
	GEG...ET-2RS 15~110			
	GEG...XT-2RS 120~280			
	GE...ET/X 15~60	钢/PTFE 编织物 Steel/PTFE fabric	-50℃~+150℃	外圈有一道轴向缝, 材料为不锈钢, 淬火, 球面粘贴PTFE编织物; 内圈材料为不锈钢, 淬火。型号后置代号为XT, 表示外圈沿轴向剖分成两半, 用锁圈固定。 There is an axial seam on the outer ring, made of stainless steel, quenched, and the spherical surface is pasted with PTFE woven fabric. The inner ring is made of stainless steel and quenched. The model suffix code is XT, indicating that the outer ring is split into two halves along the axial direction and fixed with a lock ring.
	GE...XT-2RS/X 70~300		-30℃~+130℃	产品特点与GE...ET-2RS系列相同, 但为英制尺寸。 As series GE...ET-2RS, but with inch dimensions.
	GEZ...ET-2RS 19.05~152.4			
	GEC...XT 320~460		-50℃~+150℃	外圈沿轴向剖分成两半, 用锁圈固定, 外圈材料为轴承钢, 淬火, 球面粘贴PTFE编织物; 内圈材料为轴承钢, 淬火, 球面镀铬, 后置代号为-2RS为外圈两端带有密封圈。
	GEC...XT-2RS 320~460		-30℃~+130℃	Outer ring is split into two halves along the axial direction and fixed with a lock ring. The material of the outer ring is bearing steel, quenched, and PTFE woven fabric is adhered to the spherical surface. The inner ring is made of bearing steel, quenched, with a hard chromium plating on the spherical surface. The suffix code -2RS indicates that the outer ring has sealing rings at both sides.

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GEH...XT 100~600	钢/PTFE 编织物 Steel/PTFE fabric	-50℃~+150℃	产品特点与GEC...XT(-2RS)系列相同。 As series GEC...XT(-2RS).
	GEH...XT-2RS 100~600		-30℃~+130℃	
	GEC...HT 320~1000		-50℃~+150℃	外圈径向分为两半,用螺钉锁紧,材料为碳钢,磷化,球面 粘贴PTFE编织物;内圈材料为轴承钢,淬火,球面镀铬。 Outer ring is radially divided into two halves and locked with screws. The material is carbon steel, phosphated, and the spherical surface is pasted with PTFE woven fabric. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GEH...HT 100~1000			
	GE...XF/Q 100~300	钢/铜合金 Steel/Copper alloy	-50℃~+150℃	外圈沿轴向剖分成两半,用锁圈固定,外圈材料为轴承钢, 淬火,磷化,球面镀铬;内圈材料为铜合金,球面镶嵌固 体自润滑材料。 Outer ring is split into two halves along the axial direction and fixed with a lock ring. The material of the outer ring is bearing steel, quenched, phosphated, and the spherical surface is hard- chrome plated. The inner ring is made of copper alloy, and the spherical surface is inlaid with solid self-lubricating material.
	GEC...XF/Q 320~630			
	GEH...XF/Q 100~600			外圈径向分为两半,用螺钉锁紧,材料为碳钢,磷化,球面 镀铬;内圈材料为铜合金,球面镶嵌固体自润滑材料。 Outer ring is radially divided into two halves and locked with screws. The material is carbon steel, phosphated, and the spherical surface is hard-chrome plated. The inner ring is made of copper alloy, and the spherical surface is inlaid with solid self- lubricating material.
	GEH...HF/Q 440~1000			

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
角接触关节轴承 Angular contact spherical plain bearings				
	GAC...S 25~200	钢/钢 Steel/Steel	-50℃~+150℃	内、外圈材料均为轴承钢,淬火,磷化,外圈有润滑油槽油 孔,内球面有两条交叉润滑槽。 Both the inner and outer rings are made of bearing steel, quenched and phosphated. The outer ring has oil grooves and oil holes for lubrication, and the inner spherical surface has two crossed lubrication grooves.
	GACZ...S 12.7~152.4			产品特点与GAC...S系列相同,但为英制尺寸。 As series GAC...S, but with inch dimensions.
	GAC...T 25~200	钢/PTFE 编织物 Steel/PTFE fabric		外圈材料为轴承钢,淬火,球面粘贴PTFE编织物;内圈材料 为轴承钢,淬火,球面镀铬。 Outer ring material is bearing steel, quenched, and the spherical surface is adhered with PTFE woven fabric. The inner ring material is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GAC...N 25~120	钢/PTFE 塑料 Steel/PTFE plastic	-40℃~+75℃	外圈材料为轴承钢,淬火,球面衬有PTFE塑料,内圈材料为 轴承钢,淬火,球面镀铬。 Outer ring is made of bearing steel, quenched, and the spherical surface is lined with PTFE plastic. The inner ring is also made of bearing steel, quenched, and the spherical surface is hard-chrome plated.
推力关节轴承 Thrust spherical plain bearings				
	GE...AX 10~200	钢/钢 Steel/Steel	-50℃~+150℃	轴、座圈材料均为轴承钢,淬火,磷化,座圈有润滑油槽油 孔。 Both the shaft and the seat ring are made of bearing steel, quenched and phosphated. The seat ring has oil grooves and oil holes for lubrication.
	GE...AW 10~360	钢/PTFE 编织物 Steel/PTFE fabric		座圈材料为轴承钢,淬火,球面粘贴PTFE编织物;轴圈材料 为轴承钢,淬火,球面镀铬。 The material of the seat ring is bearing steel, quenched, and the spherical surface is adhered with PTFE woven fabric. The material of the shaft ring is bearing steel, quenched, and the spherical surface is hard-chrome plated.
	GX...N 17~120	钢/PTFE 塑料 Steel/PTFE plastic	-40℃~+75℃	座圈材料为轴承钢,淬火,球面衬有PTFE塑料,轴圈材料为 轴承钢,淬火,球面镀铬。 The material of the seat ring is bearing steel, quenched, with PTFE plastic lining the spherical surface. The material of the shaft ring is bearing steel, quenched, with hard-chrome plating on the spherical surface.

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
杆端关节轴承 Rod ends				
	SL...E 5~12 SL...ES 15~80 SA...E 5~12 SA...ES 15~80	钢/钢 Steel/Steel	-50℃~+150℃	组装杆端关节轴承由杆端体和向心关节轴承GE...E或GE...ES组装而成, 杆端体材料是碳钢, 表面镀锌; 除型号后置代号为E外, 其余型号可通过油杯或杆端眼孔润滑。 The assembly rod end spherical plain bearing consists of the rod end body and the radial spherical plain bearing GE...E or GE...ES. It is assembled with ES, and the material of the rod end body is carbon steel with a galvanized surface. Except for the model with the suffix code E, the rest of the models can be lubricated via a nipple or the hole at the end of the rod.
	SJ... 5~22 SAJ... 5~22 SIZ... 4.83~19.05 SAZ... 4.83~19.05			挤压杆端关节轴承杆端体材料是碳钢, 表面镀锌, 挤压成形, 内圈材料是轴承钢, 淬火, 球面镀铬。 Rod end of steel and zinc coated, with male or female thread press around the inner ring; inner ring of carbon chromium steel, spherical surface with chromium plating.
	PHS 5~30 POS 5~30 SIZP...S 4.83~25.4 SAZP...S 4.83~25.4	钢 / 青铜 Steel/Bronze	-50℃~+150℃	镶垫杆端关节轴承杆端体材料是碳钢, 表面镀锌, 滑动表面镶入青铜衬垫; 内圈材料是轴承钢, 淬火, 球面镀铬, 除了孔径小于6.35外, 其余均可通过油杯润滑。 Rod end of steel and zinc coated, with male or female thread, spherical surface with bronze liner; inner ring of carbon chromium steel, spherical surface with chromium plating; Can be relubricated via a nipple or a hole in the rod end, except hole diameter d≤6.35.
	GIR...UK 5~30 GAR...UL 5~30	钢 / PTFE 复合材料 Steel/PTFE composite material		自润滑组装杆端关节轴承是由杆端体和自润滑向心关节轴承GE...C组装而成, 杆端体材料是碳钢, 表面镀锌; 无需润滑。 Maintenance-free rod end with male or female thread is made up of a rod end and maintenance-free radial spherical plain bearing of series GE...C, rod end of steel and zinc coated; maintenance-free.
	SL...ET-2RS 15~80 SA...ET-2RS 15~80	钢 / PTFE 编织物 Steel/PTFE fabric		自滑组装杆端关节轴承是由杆端体和自润滑向心关节轴承GE...ET-2RS组装而成, 杆端体材料是碳钢, 表面镀锌; 无需润滑。 Maintenance-free rod end with male or female thread is made up of a rod end and maintenance-free radial spherical plain bearing of series GE...ET-2RS, rod end of steel and zinc coated; maintenance-free.

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	SIJK...C 5~30 SAJK...C 5~30 SIK...C 5~20 SAK...C 5~20	钢/PTFE 复合材料 Steel/PTFE composite material	-50℃~+150℃	自润滑组装杆端关节轴承杆端体材料是碳钢, 表面镀锌; 外圈材料是青铜, 滑动表面衬有PTFE复合材料, 无需润滑; 内圈材料是轴承钢, 淬火, 球面镀铬。 Rod end of steel and zinc coated, with male or female thread, outer ring of bronze, with sliding surface of PTFE composite material, maintenance-free; inner ring of carbon chromium steel, spherical surface with hard-chrome plating.
	SIBP...N 5~20 SABP...N 5~20 SIZP...N 4.83~19.05 SAZP...N 4.83~19.05	钢/PTFE 塑料 Steel/PTFE plastic	-40℃~+75℃	自润滑组装杆端关节轴承是由杆端体、内圈和PTFE塑料组成, 杆端体材料是碳钢, 表面镀锌, 无需润滑; 内圈材料是轴承钢, 淬火, 球面镀铬。 Maintenance-free rod end with male or female thread is made up of a rod end, inner ring and PTFE plastic; Rod end of steel and zinc coated, maintenance-free; inner ring of carbon chromium steel, spherical surface with hard-chrome plating.
	GK...DO 10~12 SK...ES 15~80	钢/钢 Steel/Steel	-50℃~+150℃	焊接型杆端关节轴承由杆端体和向心关节轴承GE...E或GE...ES组装而成, 杆端体材料是易焊接钢, 杆端柄部装有弹性销, 便于焊接时定位; 可通过油杯或杆端眼孔润滑。 Rod end with welding shank is made up of a rod end and a radial spherical plain bearing of series GE...E or GE...ES, rod end of weldable steel, with dowel pin in shank bottom and 45°welding chamfer; Can be relubricated via a nipple or a hole in the rod end.
	GF...DO 15~120			焊接型杆端关节轴承由杆端体和向心关节轴承GE...ES或GEEW...ES组装而成, 用挡圈固定, 杆端体材料是易焊接钢, 带有长方形焊接面; 可通过油杯润滑。 Rod end with welding shank is made up of a rod end and a radial spherical plain bearing of series GE...ES or GEEW...ES, fixed in housing by snap rings, rod end of weldable steel, with rectangular welding face; Can be relubricated via a nipple.
	GK...LO 20~110			

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
	GIHR-K...DO 20~120	钢/钢 Steel/Steel	-50℃~+150℃	带锁口杆端关节轴承由杆端体和向心关节轴承GE...ES组装而成, 用挡圈固定, d<60,杆端体材料是碳钢, 60≤d≤90,杆端体材料是碳钢或球墨铸铁, d>90,杆端体材料是球墨铸铁, SIR...ES杆端体的内螺纹带有锁口, 配有螺钉紧固; SIRD...ES杆端体无锁紧螺钉, 均可通过油杯润滑。 Rod end with locking slot is made up of a rod end and a radial spherical plain bearing of series GE...ES, fixed in housing by snap rings, rod end of carbon steel (d<60); carbon steel or spheroidal graphite cast iron (60≤d≤90); spheroidal graphite cast iron (d>90). Thread can be closed because shank is slotted, thread clamping by two hexagon socket screws of series SIR...ES; without socket screw of SIRD...ES; All can be relubricated via a nipple.
	GIHR...DO 20~120			
	GIHN-K...LO 12~200			带锁口杆端关节轴承由杆端体和向心关节轴承GEEW...ES组装而成, 用挡圈固定, d<63,杆端体材料是碳钢, 63≤d≤80,杆端体材料是碳钢或球墨铸铁, d>80,杆端体材料是球墨铸铁, 杆端体的内螺纹带有锁口, 配有螺钉紧固; 可通过油杯润滑。 Rod end with locking slot is made up of a rod end and a radial spherical plain bearing of series GEEW...ES, fixed in housing by snap rings, rod end of carbon steel (d<63); carbon steel or spheroidal graphite cast iron (63≤d≤80); spheroidal graphite cast iron (d>80). Thread can be closed because shank is slotted, thread clamping by two hexagon socket screws; Can be relubricated via a nipple.
	GIHO-K...DO 12~100			带锁口杆端关节轴承由杆端体和向心关节轴承GE...ES组装而成, 杆端体材料是碳钢, 杆端体的内螺纹带有锁口, 配有螺钉紧固; 可通过油杯润滑。 Rod end with locking slot is made up of a rod end and a radial spherical plain bearing of series GE...ES, rod end of carbon steel, Thread can be closed because shank is slotted, thread clamping by two hexagon socket screws; Can be relubricated via a nipple.
	GIHR...DO 25~160			带锁口杆端关节轴承由杆端体和向心关节轴承GE...ES组装而成, 用挡圈固定, d≤50,杆端体材料是碳钢, d>50,杆端体材料是球墨铸铁, 杆端体的内螺纹带有锁口, 配有螺钉紧固; 可通过油杯润滑。 Rod end with locking slot is made up of a rod end and a radial spherical plain bearing of series GE...ES, fixed in housing by snap rings, rod end of carbon steel (d≤50) or spheroidal graphite cast iron (d>50). Thread can be closed because shank is slotted, thread clamping by two hexagon socket screws; Can be relubricated via a nipple.

轴承 Bearing	系列、尺寸范围 Series and bore diameter range	滑动摩擦副 Sliding contact surfaces	使用温度范围 Permissible operating temperature range	产品特点 Design characteristics
球头杆端关节轴承 Ball joint rod ends				
	SQ...-RS 5~22	钢/锌基合金 Steel/Zinc base alloy	-50℃~+150℃	弯杆型球头杆端关节轴承球头座由特殊的锌基合金铸成, 球头杆的材料是碳钢。 Ball joint housing is made up of zinc base alloy, ball joint shank of carbon steel.
	SQY...-RS 4.83~19.05			产品特点与SQ...-RS系列相同, 但为英制螺纹。 As series SQ...-RS, but with inch screw thread.
	SQZ...-RS 5~22			直杆型球头杆端关节轴承球头座由特殊的锌基合金铸成, 球头杆的材料是碳钢。 Ball joint housing is made up of zinc base alloy, ball joint shank of carbon steel.
	SQD... 5~16			单杆型球头杆端关节轴承外圈由特殊的锌基合金铸成, 球头杆的材料是碳钢。 Ball joint outer ring is made up of zinc base alloy, ball joint shank of carbon steel.
	SQG... 5~14	钢/钢 Steel/Steel		弯杆型球头杆端关节轴承球头座和球头杆的材料均为碳钢。 Ball joint housing and shank are of carbon steel and zinc coated.

关节轴承系列代号对照表

Spherical plain bearings series interchange list

中国 CHINA	瑞典 SWEDEN	德国 GERMANY	德国 GERMANY	日本 JAPAN	日本 JAPAN	日本 JAPAN
BLS	SKF	INA	ASK	IKO	NTN	NMB
GE..E	GE..E	GE..DO	GE..	GE..E	SA ₁ ..B	SBH..NS
GE..ES	GE..ES	GE..DO	GE..	GE..ES	SA ₁ ..B	SBH..S
GE..ES 2RS	GE..ES 2RS	GE..DO 2RS	GE..2RS	GE..ES 2RS	SA ₁ ..BSS	
GEG..E	GEH..E	GE..FO		GE..G		
GEG..ES	GEH..ES	GE..FO		GE..GS		
GEG..ES 2RS	GEH..ES 2RS	GE..FO 2RS		GE..GS 2RS		
GEZ..ES	GEZ..ES	GE..ZO				
GEZ..ES 2RS	GEZ..ES 2RS	GE..ZO 2RS				
GEGZ..ES	GEGZ..ES	GEG..ZO				
GEGZ..ES 2RS	GEGZ..ES 2RS	GEG..ZO 2RS				
GEEW..ES	GEG..ES	GE..LO				
GEEM..ES 2RS	GEM..ES 2RS	GE..HO 2RS				
GE..C	GE..C	GE..UK	GE..D	GE..EC	SAR ₁ ..	
GE..ET 2RS	GE..TE 2RS	GE..UK 2RS	GE..D 2RS			
GEG..C	GEH..C	GE..FW				
GEG..ET 2RS	GEH..TE 2RS	GE..FW 2RS				
GEBK..S				PB..		
GEBJ..S		GE..PB				
SGE..C	GE..TGR					
SGEG..C	GEH..TGR					
G..PB		GE..PB	G..			
G..PW		GE..PW	G..D			
S..PB			S..			
S..PW			S..D			

关节轴承系列代号对照表

Spherical plain bearings series interchange list

中国 CHINA	瑞典 SWEDEN	德国 GERMANY	德国 GERMANY	意大利 ITALY	日本 JAPAN	日本 JAPAN	日本 JAPAN
BLS	SKF	INA	ASK	LSK	IKO	THK	MTR
SI..E	SI..E	GIR..DO	EJ..	GIR..E			
SI..ES	SIA..ES	GIR..DO	EJ..	GIR..ES			
SI..ES 2RS	SIA..ES 2RS	GIR..DO 2RS	EJ..2RS	GIR..ES 2RS			
SA..E	SA..E	GAR..DO	EA..	GAR..E			
SA..ES	SAA..ES	GAR..DO	EA..	GAR..ES			
SA..ES 2RS	SAA..ES 2RS	GAR..DO 2RS	EA..2RS	GAR..ES 2RS			
SIL..E	SIL..E	GIL..DO	EJL..	GIL..E			
SIL..ES	SIAL..ES	GIL..DO	EJL..	GIL..ES			
SIL..ES 2RS	SIAL..ES 2RS	GIL..DO 2RS	EJL..2RS	GIL..ES 2RS			
SAL..E	SAL..E	GAL..DO	EAL..	GAL..E			
SAL..ES	SALA..ES	GAL..DO	EAL..	GAL..ES			
SAL..ES 2R	SALA..ES 2RS	GAL..DO 2RS	EAL..2RS	GAL..ES 2RS			
SI..T/K	SIKB..F	GIKFR..PW	KI..-D	TSF..C	PHS..EC		DF..
SA..T/K	SAKB..F	GAKFR..PW	KA..-D	TSM..C	POS..EC		DM..
SIL..T/K	SILKB..F	GIKFL..PW	KIL..-D	TSFL..C	PHSL..EC		DF..L
SAL..T/K	SALKB..F	GAKFL..PW	KAL..-D	TSML..C	POSL..EC		DM..L
SI..PK			KI..-BD			NHS..T	
SA..PK			KA..-BD			NOS..T	
SIL..PK			KIL..-BD			NHS..TL	
SAL..PK			KAL..-BD			NOS..TL	
PHS..	SIKAC..M	GIKF..PB	KI..-NIRO	TSF..	PHS..	PHS..	BNF..
POS..	SAKAC..M	GAKF..PB	KA..-NIRO	TSM..	POS..	POS..	BNM..
PHSL..	SILKAC..M	GIKL..PB	KIL..-NIRO	TSFL..	PHSL..	PHSL..	BNF..L
POSL..	SALKAC..M	GAKL..PB	KAL..-NIRO	TSM L..	POSL..	POSL..	BNM..L