FGB Bearings

High-Reliability Solutions for Construction Machinery

为工程机械提供高可靠性解决方案

ISO 9001-2015
Certified Company

RoHS compliant



山东鲁聚机械有限公司

SHANDONG FGB BEARING MFG CO.,LTD.

FGB®
PLAIN BEARINGS

SHANDONG FGB BEARING MFG. CO., LTD.

China Leader in High-Performance Spherical Plain Bearings

Legacy & Expertise (Since 2004)

With 22 years of flawless manufacturing excellence, FGB has evolved into a leading player in the precision bearing industry. Spanning a modern production base of 26,000 m^2 with a registered capital of RMB 8 million, we combine over two decades of craftsmanship with advanced technologies to empower the world's most demanding machinery.

Mastery in Core Products

We specialize in the R&D and large-scale manufacturing of spherical plain bearings.

- **Extensive Product Range: Sizes from 4mm to 1500mm**.
- **Advanced Surface Treatment:** We offer phosphated, non-phosphated, and specially treated spherical plain bearings, ensuring superior wear resistance, corrosion resistance, and durability under extreme conditions.
- **Advanced Engineering & Complete Quality Control:** Equipped with state-of-the-art production machinery, advanced manufacturing processes, and high-precision testing instruments, we enforce rigorous quality control throughout the entire lifecycle—from raw material processing to final delivery—ensuring superior product quality for our clients.

A Proven Global Partner

FGB is more than just a supplier—we are a trusted partner for both domestic manufacturers and international distributors. Our high-precision components are exported to over 30 countries and regions, including Russia, Germany, the United States, South Korea, and Brazil. Designed for full compatibility with equipment from leading global brands, our products offer an uncompromising alternative to international Tier-1 premium



传承与经验（始于 2004 年）

凭藉 22 年卓越的制造经验，鲁聚机械（FGB）已成为特殊关节轴承领域的领军企业。公司拥有 26,000 平方米的现代化生产基地，注册资金800万元人民币。我们将二十余年的制造积淀与前沿技术相结合，为全球极具挑战性的机械设备提供强劲动力。

核心产品 精湛工艺

我们专注于关节轴承的研发与规模化生产。

- 丰富的产品规格： **内径范围覆盖 4mm 至 1500mm。**
- 先进的表面处理技术： 提供磷化、非磷化和特殊表面处理的关节轴承，确保在极端环境下具备优异的耐磨、抗腐蚀性与耐用性。
- 精密制造工艺： 我们配备了先进的生产设备、精湛的加工工艺及高精度的检验仪器，实现从源头制造到货物交付的全流程精细化把控，致力于为客户提供卓越品质的产品。

经得起验证的全球合作伙伴

FGB 不仅是一家轴承供应商，更是国内主机厂及国际分销商值得信赖的合作伙伴。我们的产品远销俄罗斯、德国、美国、韩国、巴西等 30 多个国家和地区，产品旨在与全球知名品牌的设备完全兼容，为客户提供可媲美国际一线（Tier-1）高端零部件的无忧替代方案。

山东鲁聚机械有限公司
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1. 向心关节球轴承 / ISO
Spherical Plain Bearings (ISO Standard)



类型 (ISO/GB) Types	尺寸范围 (мм) Size range	滑动摩擦副 Sliding contact surfaces	是否加油 Re-lubrication	结构特点 Design features
GE..E **GE..ES** **GE..ES-2RS**	4 ~ 360	钢 / 钢 Steel/Steel	是 Yes	带油槽油孔，表面磷化处理。 **E:** 单开缝; **S:** 带油槽油孔; **2RS:** 两面带密封圈。 With lubrication grooves, surface phosphating treated. **E:** Single fracture; **S:** With lubrication groove and hole; **2RS:** Seals on both sides.
GEG..E **GEG..ES** **GEG..ES-2RS**	4 ~ 360	钢 / 钢 Steel/Steel	是 Yes	
GEEW..ES **GEEM..ES-2RS**	12 ~ 320	钢 / 钢 Steel/Steel	是 Yes	
GEF..ES	12 ~ 150	钢 / 钢 Steel/Steel	是 Yes	
GEZ..ES **GEZ..ES-2RS**	0.5" ~ 6"	钢 / 钢 Steel/Steel	是 Yes	
其它系列 / Other Series : GE..XS/K, GEC..XS, GEC..XS-2RS, GEK..XS-2RS				

2. 俄制向心关节球轴承 / ГОСТ
Spherical Plain Bearings (GOST Standard)



类型 (ISO/GB) Types	尺寸范围 (мм) Size range	滑动摩擦副 Sliding contact surfaces	是否加油 Re-lubrication	结构特点 Design features
ШС **ШС..К**	4 ~ 200	钢 / 钢 Steel/Steel	是 Yes	ГОСТ系列，公制尺寸，外圈带装球缺口，原色。 GOST series, metric dimensions, outer ring with filling slot, natural color.
ШСП **ШСП..К** **ШСП..К1**	4 ~ 360	钢 / 钢 Steel/Steel	是 Yes	ГОСТ系列，公制尺寸，外圈单开缝，带油槽油孔，原色。 GOST series, metric dimensions, outer ring with single fracture, with lubrication grooves and holes, natural color.
ШСЛ **ШСЛ..К** **ШСЛ..К1**	4 ~ 360	钢 / 钢 Steel/Steel	是 Yes	ГОСТ系列，公制尺寸，外圈双开缝，带油槽油孔，原色。 GOST series, metric dimensions, outer ring with double fracture, with lubrication grooves and holes, natural color.
ШСШ..К	12 ~ 320	钢 / 钢 Steel/Steel	是 Yes	ГОСТ系列，公制尺寸，外圈单开缝，带油槽油孔，原色。 GOST series, metric dimensions, outer ring with single fracture, with lubrication grooves and holes, natural color.
其它系列 / Other Series : 2ШС, 9ШС, 2ШСП, 2ШСЛ, 6ШСЛ, GШСЛ, 9ШСЛ, НШСЛ				

① **A Leading Chinese Specialized Manufacturer of GOST Spherical Plain Bearings, Providing OEM & Tier-1/OEM Assembly Services for Russian Clients.**
中国专业的俄标（**GOST**）关节轴承制造工厂，为俄罗斯客户提供**OEM**及主机厂配套服务。

② Surface roughness up to Ra 0.16 or less. / 表面粗糙度可低至 Ra 0.16 及以下。

③ Massive stock, ready for immediate shipment. / 现货库存充足，发货及时。

④ Russian-speaking manager, 24/7 service. / 专业俄语销售团队，提供 24/7 全天候服务。

⑤ Free samples upon request. / 可免费申请样品。







3 免维护型向心关节球轴承 / ISO
Maintenance-Free Spherical Plain Bearings / ISO



类型 Types	尺寸范围 (mm) Size range	滑动摩擦副 Sliding contact surfaces	结构特点 Design features
GE..ET-2RS **GE..XT-2RS** **GEG..XT-2RS** **GEZ..ET-2RS**	15 ~ 360	钢 / PTFE编织物 Steel/PTFE fabric	自润滑，外圈磷化处理并粘贴 PTFE 织物 **E:** 外圈单开缝 **X:** 外圈双开缝 **T:** PTFE 织物 **2RS:** 两侧带密封圈 Lubrication Free, outer ring phosphating treated and pasting PTFE fabric **E:** Outer ring with a single split **X:** Double fractured outer ring **T:** PTFE fabric **2RS:** With seals on both sides
GAC..T **GX..T**	10 ~ 360	钢 / PTFE编织物 Steel/PTFE fabric	
GE..C **GEG..C**	4 ~ 40	钢 / PTFE烧结铜 Steel/PTFE sintered	自润滑，钢/PTFE 烧结铜 Lubrication Free, Steel/PTFE sintered bronze
其它系列 / Other Series : COM..T, GE..PW			

4 液压油缸杆端关节轴承
Hydraulic Rod Ends for Cylinders



类型 Types	尺寸范围 (mm) Size range	滑动摩擦副 Sliding contact surfaces	是否加油 Re- lubrication	结构特点 Design features
GF..DO **GF..LO**	20 ~ 120	钢 / 钢 Steel/Steel	是 Yes	焊接型，内装 GE..DO/LO 轴承，可通过油嘴加注润滑脂。 Welding type, with GE..DO/LO bearings, relubricatable via nipple. GE..DO = GE..ES, GE..LO = GEEW..ES
GK..DO	17 ~ 80	钢 / 钢 Steel/Steel	是 Yes	焊接型，带定位销，内装 GE..DO 轴承，可通过油嘴加注润滑脂。Welding type, with dowel pin, GE..DO bearing, relubricatable via nipple. GE..DO = GE..ES
GIHR..DO **GIHR-K..DO**	20 ~ 160	钢 / 钢 Steel/Steel	是 Yes	
GIHO-K..DO	20 ~ 100	钢 / 钢 Steel/Steel	是 Yes	螺纹型，内装 GE..DO 轴承，可通过油嘴加注润滑脂。 Threaded type, GE..DO bearing, relubricatable via nipple. GE..DO = GE..ES
GAS	20 ~ 160	钢 / 钢 Steel/Steel	是 Yes	
GIHN-K..LO	20 ~ 250	钢 / 钢 Steel/Steel	是 Yes	螺纹型，内装 GE..LO 轴承，可通过油嘴加注润滑脂。 Threaded type, GE..LO bearing, relubricatable via nipple. GE..LO = GEEW..ES

For the above types, customers can choose to install maintenance-free Spherical plain bearing.
对于上述类型，客户可选配免维护关节轴承。

5 工程机械部分 OEM 型号表

(适用于 Komatsu, Caterpillar, SANY, XCMG, LiuGong, SHANTUI 等.)

Interchangeable Series for Construction Machinery
(Suitable for Komatsu, Caterpillar, SANY, XCMG, LiuGong, SHANTUI, etc.)

Ref. OEM No.			
07137-02504	707-46-11520	569-40-11370	707-76-35010
07137-03004	235-46-11420	566-40-11161	707-76-35420
07137-03505	707-46-11010	562-50-3D540	23B-27-11800
07137-04006	195-71-51263	707-46-18050	235-27-11802
07137-04507	17M-71-21590	707-46-18010	566-50-11461
07137-05008	561-50-82311	707-46-14050	17A-50-12310
07137-05509	561-40-61260	707-46-14010	17M-50-41161
07137-06010	562-50-31450	419-43-17590	14Y-50-11460
569-63-22880	41E-70-15831	205-63-56480	566-52-41920
561-50-62310	581-40-21340	707-46-07040	707-46-16030

Ref. OEM No.			
117-4013	6J-1144	8Q-5969	9N-4661
380-7674	7J-1309	8T-0333	9U-9559
380-7675	7J-3297	8T-1114	9U-9561
380-7677	107-8126	8T-2168	9W-2401
117-3006	3G-5337	9D-2319	005-8639
118-3134	164-9309	9M-3914	035-7869



Финна / Finna

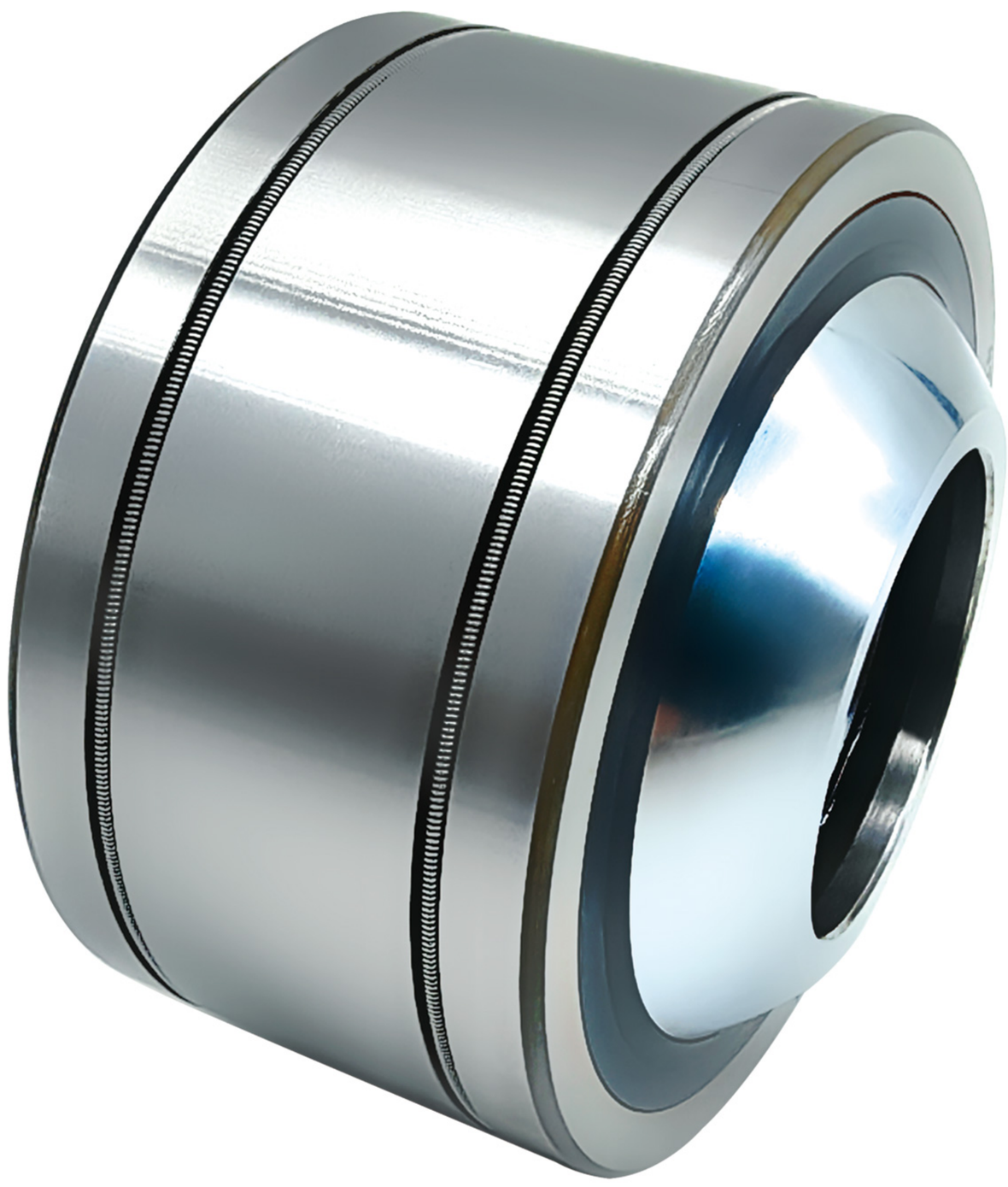
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