

Polymer-tech Solution™

PLASTIC BEARINGS TECHNOLOGY

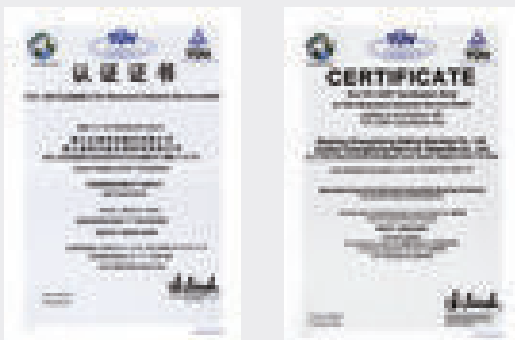
工程塑料轴承



CSB®



- 成立于1995年，总注册资本7500万人民币；
- 2016年销售额超过4亿元人民币，员工800名；
- 拥有两个生产基地，占地130000m²；
- 国家级高新技术企业，51项专利；
- ISO9001:2008、IATF16949:2016质量认证。
- CSB was established in 1995 and its legal registered capital is 11.5 million US Dollars.
- CSB turnover in 2016 was more than USD 62 million. Currently there are 800 employees working at CSB.
- There are 2 facilities covering over 130000m² with extendable area for future enlargement.
- China National Hi-Tech Enterprise has been granted, 51 patents obtained till now.
- ISO9001: 2008 and IATF16949:2016 quality management system were certificated.



新型自润滑材料适应环境保护要求 Concern for Environment Requirement

CSB积极应对环境保护的要求，通过多年的努力在各个应用领域都已成功开发了满足RoHS要求的不同材料。

Concern for environmental requirement, CSB has developed various kinds of self-lubricating materials to conform to environment requirement.

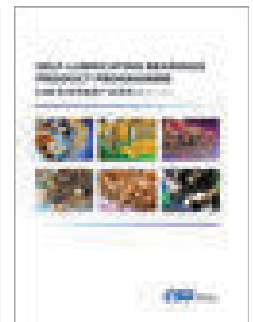
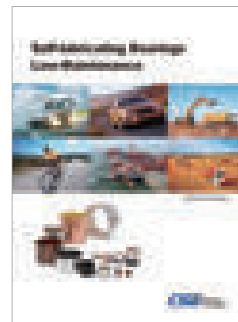
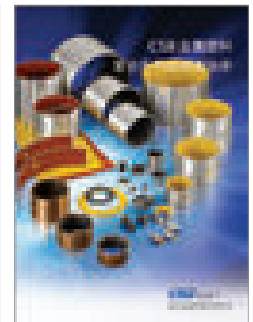
RoHS指令限制的六种有害物质 EC Directive 2011/65/EU (the RoHS Directive)

汞Hg、六价铬Cr⁶⁺、铅Pb、镉Cd、多溴联苯醚PBDE、多溴联苯PBB。

This directive restricts the use of hazardous substances. Listed below are CSB products which are all RoHS compliant.



"CSB", "Ploymer-tech Solution", "Dry Motion-tech", "Dry-idea", "CSB-EPB", "CSB-LIN", "CSB-FWB", "CSB-LMS", "CSB-BAL", "CSB-RPM", "CSB-PEC", "CSB-PCC", "CSB-PEW", "CSB-PPR", "CSB-FLB", "CSB-CPB", "CSB-PCB", "CSB-PYB", "CSB-SRB" and "CSB-PRB" are legally protected trademarks in China and in case also in foreign countries. 中国保护商标，同时在其它一些国家也受当地法律保护。



Your Partner for Self-lubricating Bearing Application

为所有工业提供各种自润滑轴承解决方案



CSB-EPB™工程塑料轴承 Plastic Plain Bearings

自润滑免维护、耐腐蚀、长服务寿命、轻量化；可选：极低摩擦系数、高载荷、抗静电、高温250℃、FDA食品安全等级。

Maintenance-free dry operation, Absolute corrosion resistance, Long service time and light; Multiple choices: Lowest friction coefficient, High load, Anti-static, High temperature 250℃, FDA food safety grade.

P12



CSB-BAL™塑料关节轴承 Plastic Spherical Bearings

自润滑免维护、耐腐蚀、抗污垢、轻量化；可选：多种结构设计满足不同安装需求。

Self-lubricating and maintenance-free, Corrosion-resistant, Anti-fouling, lightweight; Multiple structural design to meet different installation requirements.

P188



CSB-LIN™塑料直线轴承 Plastic Linear Bearings

干运行无需供油、抗粉尘、无噪音、耐腐蚀、长服务寿命、轻量化；可选：高温250℃、多种安装方式。

Dry operation without oil, Anti-dust, No noise, Corrosion resistance, Longer service time and light; Multiple Assemble types, Highest operation temperature 250℃.

P186



CSB-LMS™直线驱动系统 Linear Motion Systems

自润滑免维护直线驱动系统，直线滑动原件及丝杆螺母均采用高耐磨EPB13材料制成，实现永久性干摩擦，低噪音、长服务寿命，适合在粉尘或污水下运行。

Self-lubricating and maintenance-free linear motion system, Linear slider and screw nuts are made of high wear-resistant material EPB13, Dry operation for longer time, lower noise, longer service time and suitable for operation in dust or dirty water.

P223



CSB-SFP™耐磨半成品 Semi-finished Products

采用CSB-EPB高耐磨材料制成，可实现非标轴承的快速加工、小批量制作降低成本；可选：棒材、板材、片材。

The semi-finished products are made of anti-wear and high performance materials CSB-EPB, It can be machined non-standard bearings in short time, saving cost for small quantity; Multiple choices: Bar, sheet and tribo-tape.

P281



CSB-PRB™塑料滚动轴承 Plastic Rolling Bearings

自润滑免维护、耐腐蚀、轻量化；可选：内外圈、保持架、滚珠多种材料可选。

Maintenance-free, corrosion-resistant, lightweight; Multiple choices: inner and outer ring, cage and ball can be designed different materials freely.

P291



CSB-SRB™回转支承轴承 Slewing Ring Bearings

免维护干运行、低噪音、轻量化；滑动原件可选耐磨材料EPB13、高载荷金属与特氟龙复合材料CSB-11。

Maintenance-free and dry operation, lower noise, lightweight; The slider can be made of wearresistant material EPB13 or metal and teflon composite material CSB-11 for higher load.

P299



CSB-FWB™纤维缠绕轴承 Filament-wound Bearings

连续长纤维复合材料、干摩擦性能最优越、极高的承载能力、最高静载荷240MPa，特别适合用于高载低速下的摆动。

Long fiber composite material, The best performance for dry operation, High load capacity and max. static load 240MPa, Especially suitable for swing with high load and low speed.

P303

<http://www.csb-ep.com>

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CSB Product Family

CSB产品

Polymer-tech Solution™

Products

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CSB-EPB™工程塑料轴承 Plastic Plain Bearings P 12-167



CSB-LIN™塑料直线轴承 Plastic Linear Bearings P 186-222



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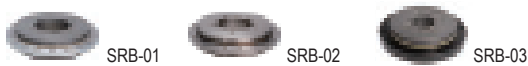
CSB-BAL™塑料关节轴承 Plastic Spherical Bearings P 168-185



CSB-LMS™直线驱动系统 Linear Motion Systems P 223-280



CSB-SRB™回转支撑轴承 Slewing Ring Bearings P 299-302



CSB-RPM™转向器支撑套 Steering Rack Bearings P 295-296



KER转角轴承 Knife edge rollers P 290



CSB-PEC™扶梯自润滑回转链 Self-lubricated Rotary Chains P 297-298



CSB-SFP™耐磨半成品 Semi-finished Products P 281-289



CSB-FWB™纤维缠绕轴承 Filament-wound Bearings P 303-315



金属自润滑轴承 Metal Sliding Bearings P 316-317





产品特性 Product Features

- 专门为气缸行业开发的耐磨活塞环。比PTFE制成的活塞环安装更简易。可提供CSB标准材料EPB13、EPB19等制成的高耐磨活塞环
- 耐磨性能极好
- 装配简易
- 免维护，自润滑
- 耐腐蚀、质量轻
- Wear resistance piston ring specially developed for the pneumatic pump industrial application. It is easier to be installed comparing with the PTFE piston ring. Standard materials available are EPB13, EPB19 and so on
- Good wear resistance
- Easy assembly
- Maintenance free and self-lubricated
- Corrosion resistance and light weight

结构设计 Structure Design

CSB-PPR™ 塑料活塞环标准产品均采用斜开口设计，使得安装简易和长期安全平稳运行。

CSB-PPR™ plastic piston ring is designed with slipped gap that ensures easy assembly of the bearings and long term stable operation.

材料设计 Material Design

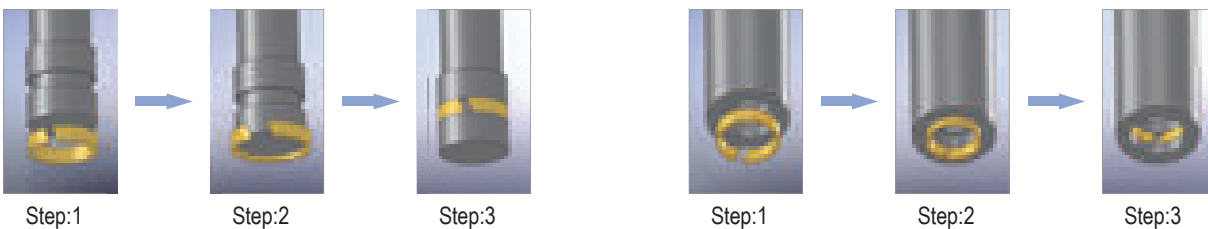
CSB-PPR™ 塑料活塞环标准材料采用耐磨性极好的CSB-EPB13制成，使得活塞环在高速运动下保持出色的耐磨性能。当然，也可以选择采用耐温高达250℃的CSB-EPB5材料制成。

CSB-PPR™ plastic piston ring is made from CSB-EPB13 material which is a good wear resistance polymer ensures outstanding wear resistance feature of the bearings under high speed operation condition. At the same time, an optional high temperature material CSB-EPB5 is available for the operation temperature up to 250℃.

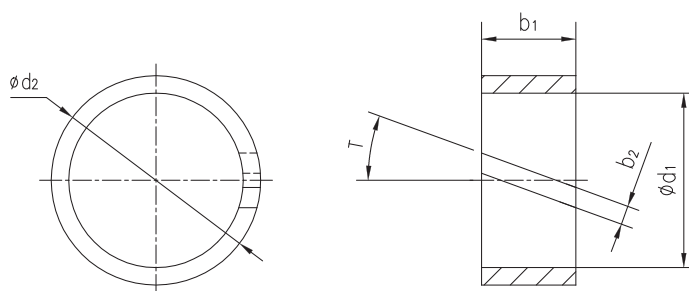
安装设计 Assembly Design

CSB-PPR™ 由于斜开口设计使得安装特别简易，直接用手从开口处将轴承拉大套入活塞上推入到安装槽内即可。

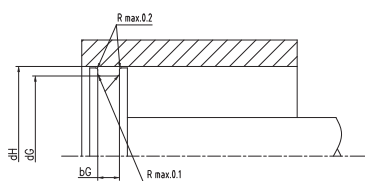
CSB-PPR™ slipped gap design allows an easy assembly, simply open the bearing by hand from the gap and position the bearings to the required location until it is pushed into the mounting groove.



标准规格 Standard Specifications

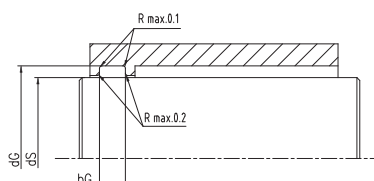


订购编码 Order PN	d_1 [mm]	d_2 [mm]	b_1 [mm]	$b_2 \pm 0.5$ [mm]	T [°]
PPR13-1012-054	10	12	5.4	2.5	20
PPR13-1214-054	12	14	5.4	2.5	20
PPR13-1416-054	14	16	5.4	2.5	20
PPR13-1618-054	16	18	5.4	2.5	20
PPR13-1722-054	17	22	5.4	1	25
PPR13-2023-054	20	23	5.4	2.5	20
PPR13-2528-054	25	28	5.4	2.5	20
PPR13-2832-054	28	32	5.4	1	25
PPR13-3034-054	30	34	5.4	2.5	20
PPR13-3539-054	35	39	5.4	2.5	20
PPR13-3540-054	35	40	5.4	1	25
PPR13-4044-054	40	44	5.4	2.5	20
PPR13-4550-054	45	50	5.4	2.5	20
PPR13-5055-054	50	55	5.4	2.5	20
PPR13-6065-054	60	65	5.4	2.5	20
PPR13-7075-054	70	75	5.4	2.5	20



推荐活塞安装方法 Installation recommendations for pistons

尺寸 Size [mm]	dG h-公差 Tolerance	dH h-公差 Tolerance	bG
公称尺寸 Nominal size	dG=d1	dH=d2	bG=b1+0.2

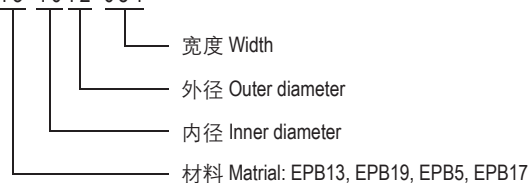


推荐基座安装方法 Installation recommendations for housings

尺寸 Size [mm]	dS h-公差 Tolerance	dG h-公差 Tolerance	bG
公称尺寸 Nominal size	dS=d1	dG=d2	bG=b1+0.2

订购编码 Order PN:

PPR13-1012-054



[Http: //www.csb-ep.com](http://www.csb-ep.com)

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