

Polymer-tech Solution™

PLASTIC BEARINGS TECHNOLOGY

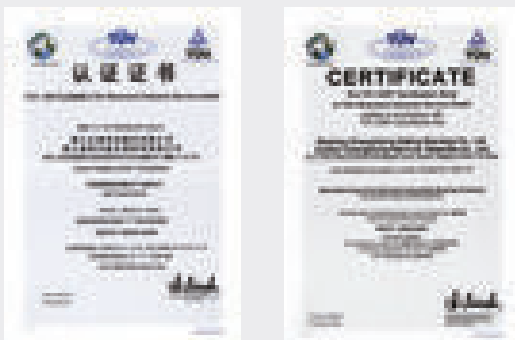
工程塑料轴承



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.

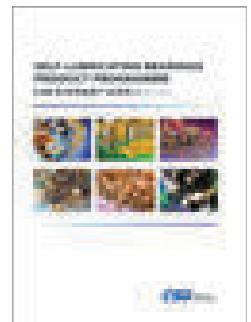
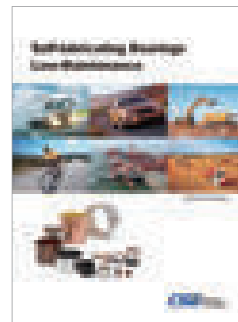
RoHS指令限制的六种有害物质 EC Directive 2011/65/EU (the RoHS Directive)

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.

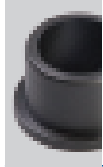


"CSB", "Ploymer-tech Solution", "Dry Motion-tech", "Dry-idea", "CSB-EPB", "CSB-LIN", "CSB-FWB", "CSB-LMS", "CSB-BAL", "CSB-RPM", "CSB-PEC", "CSB-PCC", "CSB-PEW", "CSB-PPR", "CSB-FLB", "CSB-CPB", "CSB-PCB", "CSB-PYB", "CSB-SRB" and "CSB-PRB" are legally protected trademarks in China and in case also in 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.

P168



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

CSB Product Family

CSB产品

Polymer-tech Solution™

Products

www.csb-ep.com
sales@csb-ep.com
Tel: 0086 573 84186133/84185527
Fax: 0086 573 84185517

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



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

P 291-294



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

P 168-185



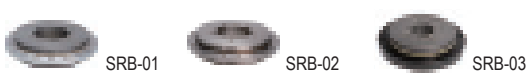
CSB-LMS™直线驱动系统 Linear Motion Systems

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

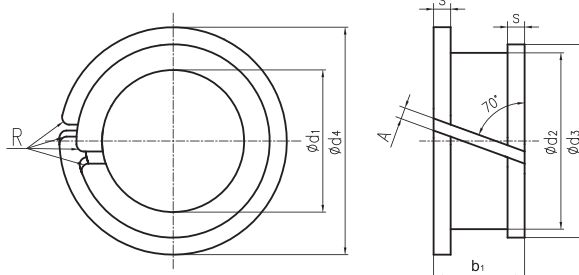


金属自润滑轴承 Metal Sliding Bearings

P 316-317



标准规格 Standard Specifications



订购编码 Order PN:

PCB-05-02

高度 High

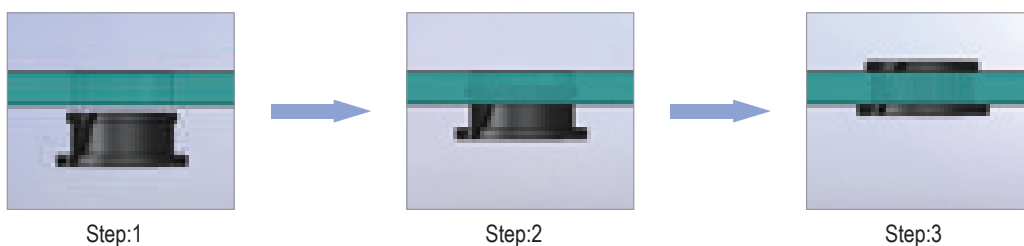
内径 Inner diameter

座孔 Housing: H7 轴 Shaft: h9

订购编码 Order PN	d ₁ [mm]	公差 Tolerance [mm]	d ₂ [mm]	d ₃ [mm]	d ₄ [mm]	S _{0.10} [mm]	b ₁ ^{+0.20} [mm]
PCB-03-02	3	+0.020/+0.080	4.2	4.8	6	0.6	3.2
PCB-04-02	4	+0.030/+0.105	5.2	5.9	7	0.6	3.2
PCB-05-02	5	+0.030/+0.105	6.2	6.8	8	0.6	3.2
PCB-05-03	5	+0.030/+0.105	6.2	6.8	8	0.6	4.2
PCB-06-02	6	+0.030/+0.105	7.2	7.8	11	0.6	3.2
PCB-06-03	6	+0.030/+0.105	7.2	7.8	11	0.6	4.2
PCB-08-02	8	+0.040/+0.130	9.6	10.4	13	0.8	3.6
PCB-08-03	8	+0.040/+0.130	9.6	10.4	13	0.8	4.6
PCB-10-014	10	+0.040/+0.130	11.6	12.4	15	0.8	3
PCB-10-02	10	+0.040/+0.130	11.6	12.4	15	0.8	3.6
PCB-10-025	10	+0.040/+0.130	11.6	12.4	15	0.8	4.1
PCB-10-03	10	+0.040/+0.130	11.6	12.4	15	0.8	4.6
PCB-12-02	12	+0.050/+0.160	13.6	14.4	17	0.8	3.6
PCB-12-025	12	+0.050/+0.160	13.6	14.4	17	0.8	4.1
PCB-12-03	12	+0.050/+0.160	13.6	14.4	17	0.8	4.6
PCB-14-03	14	+0.050/+0.160	15.6	16.4	19	0.8	4.6
PCB-16-02	16	+0.050/+0.160	17.6	18.4	21	0.8	3.6
PCB-16-03	16	+0.050/+0.160	17.6	18.4	21	0.8	4.6
PCB-18-03	18	+0.050/+0.160	20	21	23	1	5
PCB-20-03	20	+0.065/+0.195	22	23	25	1	5
PCB-25-03	25	+0.065/+0.195	27	28	30	1	5

*d₁公差为压入标准H7座孔 (ISO3547-1) 后公差 *Tolerance d₁: after being pressed into housing H7(ISO3547-1)

PCB塑料卡箍轴承安装方式 Plastic Clip Bearings Installation Method



● 易用手装配 Easy assembly by hands



产品特性 Product Features

- 快速安装的薄壁塑料轴承。采用尺寸适应性较好的CSB-EPB3M材料制成。同样可提供耐磨性能更为出色的CSB-EPB7材料
- 免维护，自润滑
- 侧面开槽设计，易于安装
- 开槽设计可补偿材料膨胀
- 适用于旋转、摇摆运动
- 对安装孔精度要求较低
- Thin-wall plastic bearing for quick installation. It is made with CSB-EPB3M material which is flexible for dimension variation. Alternative material CSB-EPB7 is also available for special wear resistance requirement
- Maintenance free, self-lubricated
- Side groove designation for easy assembly
- Groove design reserves the material expansion allowance
- Suitable for rotation and sliding motions
- Lower tolerance requirement for the mounting holes

结构设计 Structure Design

CSB-PYB™ 薄壁塑料轴承采用了比标准型塑料轴承更薄的壁厚设计，狭小的安装空间变得可能。斜开口缝的设计使得轴承装配变得简单。

CSB-PYB™ thin wall plastic bearing is designed with thinner wall comparing with the standard plastic bearing for those applications with small assembly spaces. Slipped gap ensures easy assembly of the bearings.

材料设计 Material Design

CSB-PYB™ 薄壁塑料轴承同样采用耐磨性较好的CSB-EPB3M材料制成，轴承具有良好的自润滑性能，可以完全干运行；当然，由于CSB-EPB3M对各种润滑剂具有良好的抗性，所以使用过程中额外的润滑剂也是被允许的。

CSB-PYB™ is also made from CSB-EPB3M material which is a good wear resistance polymer. The bearing self-lubricating performance is excellent for dry operation conditions. At the same time, continuous lubricating is allowed during the operation because this material is also with good isolation feature against the most common lubricants.

安装设计 Assembly Design

薄壁塑料轴承螺旋形的斜槽可以保证它能被很容易地用手直接压入到配合座孔中。这个斜槽也能够补偿圆周方向的膨胀。因此，轴承仍有可能保持较小的间隙。薄壁塑料轴承的推荐使用座孔公差为H7，可用于最大为H13公差场合；薄壁塑料轴承允许在座孔中旋转。

The spiral shape slip gap could not only make the bearing easy to be pressed into the metal housing, but also help to compensate any possible material expansion caused by the squeeze derived from the pressing. The recommended housing tolerance is H7 while the bearing could fit with the housing tolerance range up to H13. The bearing is allowed to be rotating in the housing after assembling.

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

浙江长盛塑料轴承技术有限公司
地址: 浙江省嘉善惠民街道汾湖路6号
邮编: 314100
Tel: 0573-84186133/84185527
Fax: 0573-84185517
E-mail: sales@csb-ep.com

Zhejiang CSB Plastic Bearing Technology Co.,Ltd.
Add: No.6, Fenu Road, Huimin Sub-district, Jiashan, Zhejiang, China
Zip Code: 314100
Tel: 0086 573 84185528/84184307
Fax: 0086 573 84183450
E-mail: sales@csb-ep.com

总部: 浙江长盛滑动轴承股份有限公司
地址: 浙江嘉善经济开发区鑫达路6号
[Http: //www.csb.com.cn](http://www.csb.com.cn)

Zhejiang Changsheng Sliding Bearing Co., Ltd.
Add: No.6 Xinda Road, Economic Development Zone,
Jiashan, Zhejiang, China.

CSB全球 CSB Global

▣ CSB in Germany

CSB Gleitlager GmbH
Address: Meierstr. 34 - 36, D-32120
Hiddenhausen
Tel: +49(0)5223-985069-0
Fax: +49(0)5223-985069-20
Web-site: www.csb-gleitlager.de
E-mail: info@csb-gleitlager.de

▣ CSB in France

CSB Bearing France
Address: 3, Boulevard Eugene Marie
27800 Brionne, France
Tel: +33-232-433276
Fax: +33-970-063257
Web-site: www.csb-bearings.fr
E-mail: p.mouclier@csb-bearings.fr

▣ CSB in UK

KRF UK LTD
Address: 6, Biton Road Rugby, CV22
7AB, UK
Tel: +44-1788 5415551
Fax: +44-1788 541368
Web-site: www.krfukltd.co.uk
E-mail: marksmith@krfukltd.co.uk

▣ CSB in Sweden

D&E Tradomg AB
Address: Himmelsbodavagen
9, SE-147 39 Tumba, Sweden
Tel: +46 8 4474050
Fax: +46 8 4474060
Web-site: www.detrading.se
E-mail: johan@detrading.se

▣ CSB in Finland

D&E Trading OY
Address: Takasenkatu 55
08150 Lohja, Finland
Tel: +358 207 118670
Fax: +358 207 118678
Web-site: www.detrading.fi
E-mail: deoy@detrading.fi

▣ CSB in Turkey

O-Pak Ithalat ve Ihracat Ltd. Sti.
Address: Perpa Ticaret Merkezi A-
Blok Kat 5 No: 282-284-286
okmeydanl 34384 istanbul Turkey
Tel: +90-212-222 57 00 / 221 53 15
Fax: +90-212-222 56 99 / 221 23 18
Web-site: www.o-pak.com.tr
E-mail: a.arevyan@o-pak.com.tr

▣ CSB in Switzerland

GGT Gleit-Technik AG
Address: Meierskappelstr. 3, CH-
6403 Kuessnacht am Rigi, Switzerland
Tel: +41-418541530
Fax: +41-418541532
Web-site: www.gleitlager.ch
E-mail: info@gleitlager.ch

▣ CSB in Canada(Quebec)

Global Bear Inc.
Address: 2064 Chartier Avenue,
Dorval, Quebec, Canada H9P 1H2
Tel: +1-866-631-1110
(Toll free in North America)
+1-514-631-1110
Fax: +1-514-636-7737
Web-site: www.globalbear.ca
E-mail: sales@globalbear.ca

▣ CSB in Canada(Ontario) ▣ CSB in India

Global Bear Inc.
Address: 21601 Matheson Blvd.
Unit 10, Mississauga, Ontario,
Canada L4W 1H9
Tel: +1-877-820-4865
(Toll free in North America)
+1-905-624-0612
Fax: +1-905-624-0612
Web: www.globalbear.ca
E-mail: sales@globalbear.ca

CSB Sliding Bearing (India) PVT. LTD.
Address: Akash Deep Building Suite
206, Second Floor 26-A,
Barakkhamba Road New Delhi-110001, India
Tel: +91-11-66302220/21
Fax: +91-11-23715557
Web: www.csbslidingbearings.com
E-mail: info@csbslidingbearings.com

