

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130000m<sup>2</sup>；
- 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 130000m<sup>2</sup> 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.

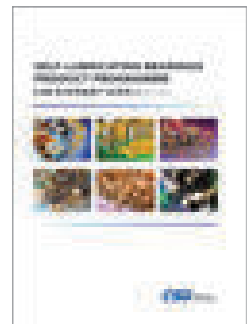
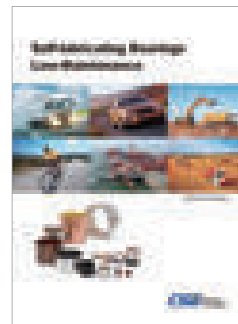
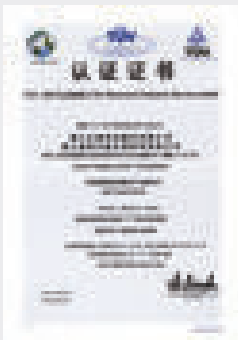
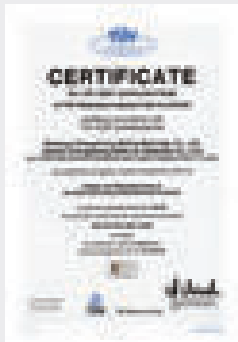
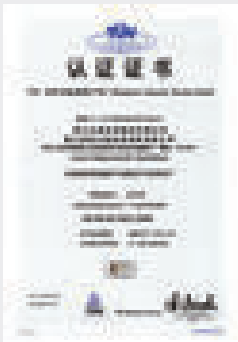
## RoHS指令限制的六种有害物质 EC Directive 2011/65/EU (the RoHS Directive)

汞Hg、六价铬Cr<sup>6+</sup>、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.

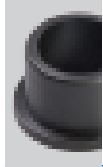


"CSB", "Ploymer-tech Solution", "Dry Motion-tech", "Dry-idea", "CSB-EPB", "CSB-LIN", "CSB-FWB", "CSB-LMS", "CSB-BAL", "CSB-RPM", "CSB-PEC", "CSB-PCC", "CSB-PEW", "CSB-PPR", "CSB-FLB", "CSB-CPB", "CSB-PCB", "CSB-PYB", "CSB-SRB" and "CSB-PRB" are legally protected trademarks in China and in case also in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

Products

CSB-EPB™

[www.csb-ep.com](http://www.csb-ep.com)  
[sales@csb-ep.com](mailto:sales@csb-ep.com)

Tel: 0086 573 84186133/84185527  
Fax: 0086 573 84185517

# 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



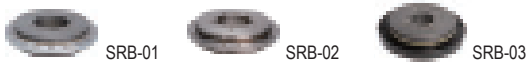
## CSB-LMS™直线驱动系统 Linear Motion Systems

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

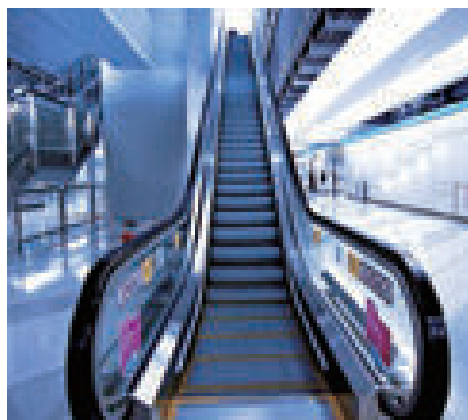
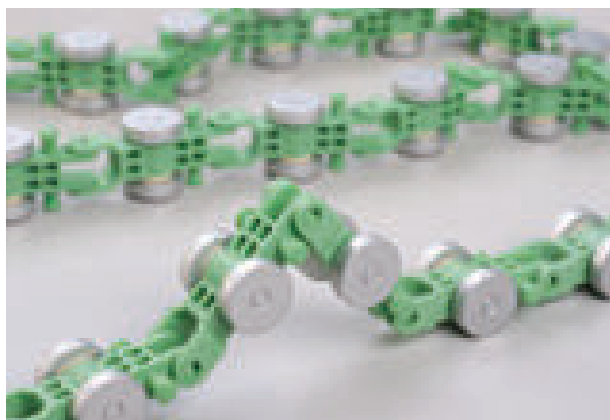
P 303-315



## 金属自润滑轴承 Metal Sliding Bearings

P 316-317





### 滚动轴承回转链 Rolling Bearing Rotary Chains

扶梯回转链一般都是采用滚动轴承设计，扶手带与导轨摩擦产生大量的磨屑和灰尘，这些磨屑和灰尘对滚动轴承的正常工作和寿命造成了严重影响，室外运行滚动轴承还带来因生锈失效的问题，滚动轴承工作一段时间后容易出现噪音加大甚至卡死现象，容易导致扶手带磨损加剧损坏，扶梯运行系统负载增加，影响了电机使用寿命。



The design of the escalator rotary chain is usually with rolling bearings. There are a lot of containment and dust generated between the chain belt and the guide rail during the operation, therefore it induces damages to the rolling bearing and reduces the service life of the bearing and affects the performance of the bearing. Furthermore, outdoor operation of the escalator may cause corrosions to the rolling bearings. Under the above conditions, the rolling bearing in the chain is easy to cause failure of the operation of the chain. It may damage the chain system or consequently damage the driving motor in the escalator system.

### CSB-PEC™自润滑回转链 Self-lubricated Rotary Chains

PEC自润滑回转链关键转动部位采用了自润滑塑料轴承设计，自润滑塑料轴承由EPB15材料制成解决了轴承需要加油维护的问题，而且EPB15材料对灰尘有很好的抵抗能力，采用此材料制成的自润滑轴承能在环境非常恶劣的情况下长期正常工作；PEC新型回转链长期平稳低噪音运行成功解决了滚动轴承回转链长期存在的噪音和滚动轴承容易卡死的缺陷；PEC回转链上的金属部件均采用了特殊的表面处理技术可以确保在户外长期平稳运行。

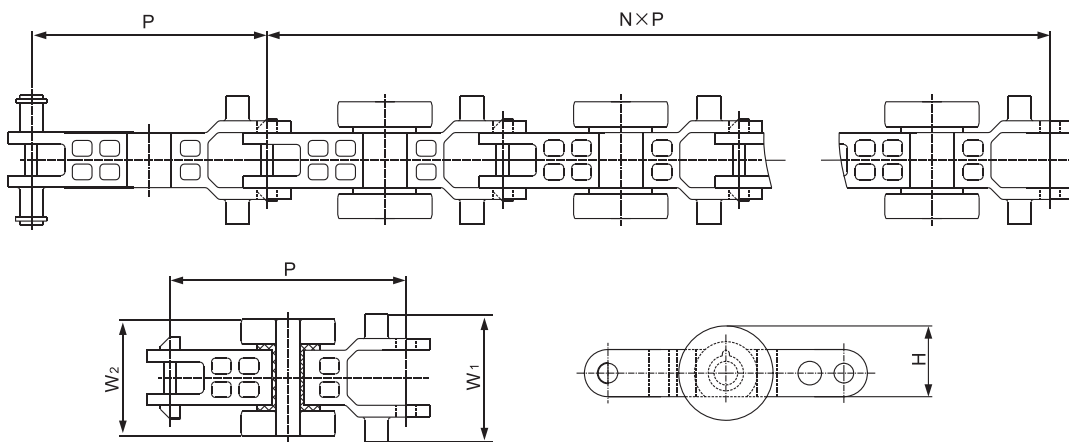


The rotation parts of CSB-PEC™ series rotary chain are with self-lubricated plastic bearings, the material CSB-EPB15 used in the plastic bearings provides maintenance free feature of the chain system and with the anti-dust and anti-corrosion feature of the bearing material, the chain system could be free to operate under critical conditions. The long term stable operation with low noise design of PEC chain prevent the chain system from stuck and operation failure comparing with the traditional rolling bearing design. The metal parts of the PEC chain are specially treated for the long term outdoor operation.

### CSB-PEC™ 链条技术数据表 Technical data table

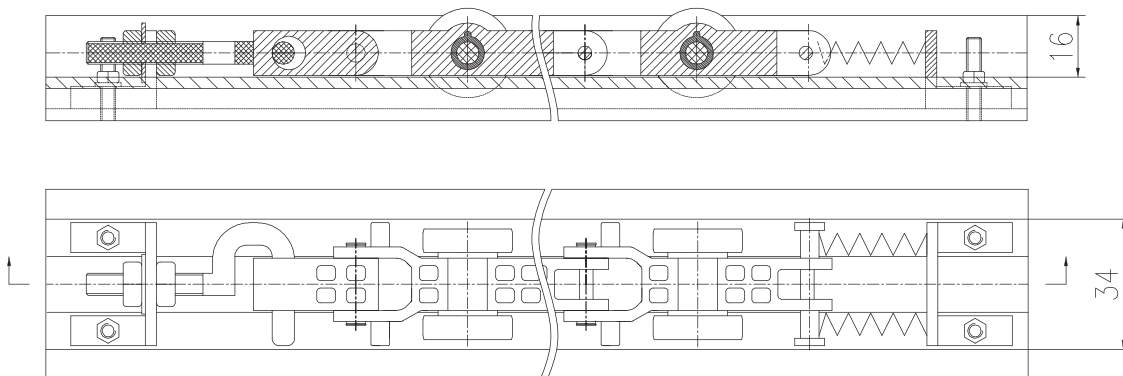
订购编码 Order PN	最高PV值 Max. PV value	极限压力 Max. load [N/P]	使用温度 Temperature [°C]	极限线速度 Max. speed [m/s]	摩擦系数 Friction coefficient	拉断力 Break strength [N]
PEC03	0.9	4320	-40~100	1.0	0.05-0.20	≥1000

### CSB-PEC™ 链条型号规格 Standard Specifications



订购编码 Order PN	P [mm]	W <sub>1</sub> [mm]	公差 Tolerance [mm]	W <sub>2</sub> [mm]	公差 Tolerance [mm]	H [mm]	C [mm]	N [mm]
PEC03-N	60	33.5	± 0.15	30	+0.30/0.00	18	48	节数 quantity

### CSB-PEC™ 链条标准安装方式 Standard Installation Method



订购编码 Order PN:

PEC03-17

节数 N=17 Unit quantity

03:结构系列 Structure NO.

[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)

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 in India

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

