

Polymer-tech Solution™

PLASTIC BEARINGS TECHNOLOGY

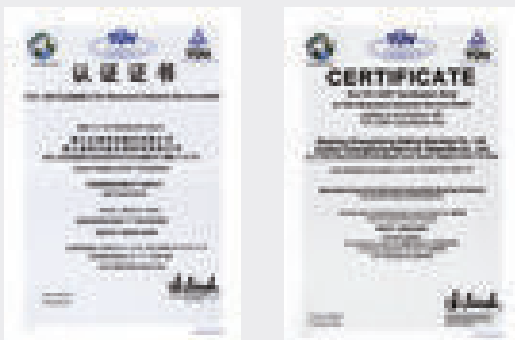
工程塑料轴承



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.

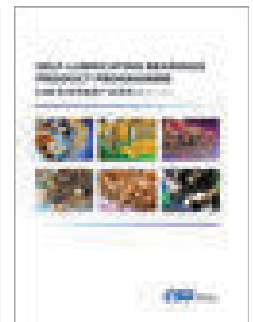
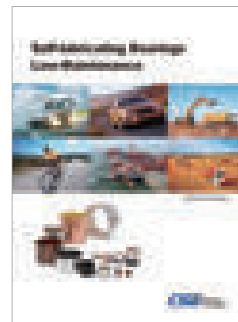
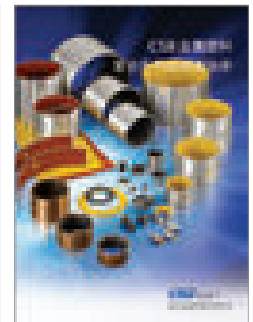
RoHS指令限制的六种有害物质 EC Directive 2011/65/EU (the RoHS Directive)

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™

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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



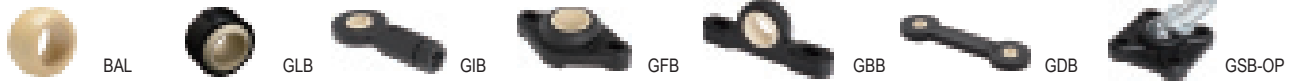
CSB-PRB™塑料滚动轴承 Plastic Rolling Bearings

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

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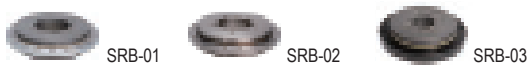
CSB-LMS™直线驱动系统 Linear Motion Systems

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CSB-SRB™回转支撑轴承 Slewing Ring Bearings

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CSB-RPM™转向器支撑套 Steering Rack Bearings

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KER转角轴承 Knife edge rollers

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

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CSB-SFP™耐磨半成品 Semi-finished Products

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

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金属自润滑轴承 Metal Sliding Bearings

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产品特性 Product Features

CSB-PRB™系列塑料滚动轴承内外圈以及保持架均采用优质工程塑料制成，滚珠材料为不锈钢（选配）、玻璃、陶瓷等；PRB系列塑料滚动轴承具有良好的自润滑性能和耐腐蚀性能；突出的是比CSB-EPB系列塑料滑动轴承具有其极高的运行速度，CSB-PRB™塑料轴承弥补了EPB塑料轴承不能在高速运动使用的场合。

CSB-PRB™ series plastic rolling bearing is made of high quality engineering plastic. The balls are Stainless steel, Glass, Ceramics materials. This series of bearings are with perfect self-lubricating feature and anti-corrosion feature. Comparing with the normal CSB-EPB series plastic bushings, the CSB-PRB™ series plastic rolling bearings are suitable to be applied under high speed and therefore meet the high speed application that normal CSB-EPB is not workable.

PRB10 塑料滚动轴承 Plastic rolling bearings



PRB10作为通用性最强的塑料滚动轴承具有良好的强度和耐磨性。由于其材料自身的润滑性噪音较低；此类轴承碱性环境下表现良好但不适合在酸性环境下长期运行。标准配置内外圈材料为：改良POM，保持架材料为：改良PA，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-40~+80℃。

PRB10 has good strength and wear resistance as a generic plastic rolling bearings, the operation noise very low because the self-lubrication of the material; These bearings perform well in an alkaline environment but not for long-term operation in an acidic environment. The standard material of inner and outer ring: POM, cage material: PA, ball material: glass or stainless steel; The long-term operation temperature: -40 ~ +80℃.

PRB15 塑料滚动轴承 Plastic rolling bearings



PRB15塑料滚动轴承材料具有极好的强度和耐磨性能。无论是在潮湿环境还是水下均保持良好的尺寸稳定性；对有机溶剂以及过氧化氢等具有良好的抗性；标准配置内外圈材料为：改良PETR，保持架材料为：改良PA，滚珠材料为：玻璃或不锈钢（选配）；长期使用温度：-50~+120℃。

PRB15 Plastic Roller Bearings are with excellent strength and wear resistance. The dimensions of the bearings are remaining stable either in the humidity environment or in the water. It has good chemical resistance against the organic solvents or Hydrogen peroxide. The standard material of the inner and outer ring is PETR, the ball cage is PA, and the balls are glass or stainless steel. The working temperature range is -50 ~ +120℃.

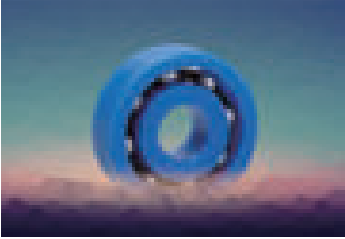
PRB20 塑料滚动轴承 Plastic rolling bearings



PRB20塑料滚动轴承具有低摩擦以及低温应用特性；此类轴承适合在酸碱交替环境下长期运行。标准配置内外圈材料为：改良UPE，保持架材料为：改良UPE，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-150~+80℃。

PRB20 series of plastic rolling bearing with low friction and low working temperature properties; these bearings are suitable for long-term operation in the acid-base alternate environment. The standard material of inner and outer ring: UPE, cage material: UPE, ball material: glass or stainless steel; The long-term operation temperature: -150 ~ +80℃.

PRB25 塑料滚动轴承 Plastic rolling bearings



PRB25塑料滚动轴承材料是经过摩擦优化的耐磨材料，具有较低的摩擦系数；耐疲劳性较好；允许在高速下运转。耐碱、弱酸以及洗涤剂的腐蚀；标准配置内外圈材料为：改良PA，保持架材料为：改良PA，滚珠材料为：玻璃或不锈钢（选配）；长期使用温度：-40~+100℃。

PRB25 Plastic roller bearings material is friction optimized wear resistance material with low friction and good fatigue resistance. It is suitable for the high speed operation. The material is alkali, acid and detergent resistance. The standard material of inner and outer ring is PA, ball cage is PA and the balls are glass or stainless steel. The working temperature range is -40~+100℃.

PRB30 塑料滚动轴承 Plastic rolling bearings



PRB30系列塑料滚动轴承具有极好的机械强度和耐磨性能，此产品能在150度的高温下正常使用，并具有极好的抗腐蚀性几乎能在所有的腐蚀环境下运行；标准配置内外圈材料为：改良PEEK，保持架材料为：改良PEEK，滚珠材料为：陶瓷；长期连续使用温度-100~+150℃。

PRB30 series of plastic rolling bearing has excellent mechanical strength and wear resistance, Max. operation temperature 250℃, these bearings has excellent corrosion resistance to almost all corrosive environment; The standard material of inner and outer ring: PEEK, cage material: PEEK, ball material: Ceramics; The long-term operation temperature: -100 ~ +150℃.

PRB40 陶瓷滚动轴承 Ceramic rolling bearings



PRB40系列塑料滚动轴承具有耐高低温、高承载以及最好的抗腐蚀性性能；可应用在强酸、强碱、无机、有机盐、海水等领域。标准配置内外圈材料为：陶瓷，保持架材料为：改良PTFE或改良PEEK，滚珠材料为：陶瓷；长期连续使用温度-200~+250℃。

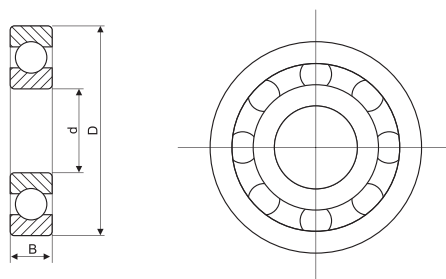
PRB40 series of plastic rolling bearing can work under very high temperature and very low temperature. These bearings with high load and the best corrosion resistance; these bearings are good working under acid, alkaline, organic and inorganic salt as well as in sea water environments; The standard material of inner and outer ring: Ceramics, cage material: PTFE or PEEK, ball material: Ceramics; The long-term operation temperature: -200 ~ +250℃.

PRTB10 轴向推力轴承 Plastic rolling thrust bearings



PRTB10作为通用性最强的塑料滚动轴承材料具有良好的强度和耐磨性，由于其材料自身的润滑性噪音较低；此类轴承碱性环境下表现良好但不适合在酸性环境下长期运行。标准配置内外圈材料为：改良POM，滚珠材料为：玻璃球或不锈钢（选配）；长期连续使用温度-40~+80℃。

PRTB10 has good strength and wear resistance as a generic plastic rolling bearings, the operation noise very low because the self-lubrication of the material; These bearings perform well in an alkaline environment but not for long-term operation in an acidic environment. The standard material of inner and outer ring: POM, ball material: glass or stainless steel; The long-term operation temperature: -40 ~ +80℃.

PRB 滚动轴承尺寸规格表 Plastic rolling bearings specifications


订购编码 Order:

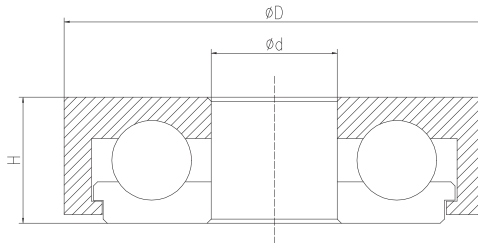
PRB10-6012

 产品规格 Specification
 轴承材料标准配置
 Standard material:
 PRB10, PRB15, PRB20,
 PRB25, PRB30, PRB40

订购编码 Order PN	d [mm]	D [mm]	B [mm]	极限静载荷 Max. static load [N]	极限动载荷 Max. dynamic load [N]	极限转速 Max. speed RPM
PRB10-623	3	10	4	25	40	4050
PRB10-624	4	13	5	35	50	3240
PRB10-625	5	16	5	40	55	2745
PRB10-626	6	19	6	40	60	2340
PRB10-607	7	19	6	35	50	2340
PRB10-627	7	22	7	45	65	1980
PRB10-608	8	22	7	45	65	1980
PRB10-609	9	24	7	50	75	1845
PRB10-629	9	26	8	60	85	1710
PRB10-6000	10	26	8	75	110	1710
PRB10-6200	10	30	9	110	140	1485
PRB10-6300	10	35	11	160	235	1260
PRB10-6001	12	28	8	90	135	1575
PRB10-6201	12	32	10	125	180	1395
PRB10-6301	12	37	12	175	260	1170
PRB10-6002	15	32	9	110	160	1395
PRB10-6202	15	35	11	140	210	1260
PRB10-6302	15	42	13	215	310	1080
PRB10-16002	15	32	8	110	160	1350
PRB10-6003	17	35	10	140	200	1260
PRB10-6203	17	40	12	180	265	1125
PRB10-6303	17	47	14	250	375	945
PRB10-16003	17	35	8	135	200	1260
PRB10-6004	20	42	12	165	250	1080
PRB10-6204	20	47	14	225	350	945
PRB10-6304	20	52	15	290	440	855
PRB10-16004	20	42	8	160	240	1035
PRB10-6005	25	47	12	200	300	945
PRB10-6205	25	52	15	265	400	855
PRB10-6305	25	62	17	330	500	655
PRB10-16005	25	47	8	175	260	945
PRB10-6006	30	55	13	235	350	810
PRB10-6206	30	62	16	300	450	720
PRB10-6306	30	72	19	380	580	610
PRB10-16006	30	55	9	200	310	810
PRB10-6007	35	62	14	265	400	720
PRB10-6207	35	72	17	340	515	630
PRB10-6307	35	80	21	405	625	540
PRB10-16007	35	62	9	240	350	720

订购编码 Order PN	d [mm]	D [mm]	B [mm]	极限静载荷 Max. static load [N]	极限动载荷 Max. dynamic load [N]	极限转速 Max. speed RPM
PRB10-6008	40	68	15	290	430	675
PRB10-6208	40	80	18	365	550	560
PRB10-6308	40	90	23	455	690	468
PRB10-16008	40	68	9	250	375	675
PRB10-6009	45	75	16	315	465	585
PRB10-6209	45	85	19	390	600	522
PRB10-6309	45	100	25	450	750	450
PRB10-16009	45	75	10	275	415	585
PRB10-6010	50	80	16	325	480	540
PRB10-6210	50	90	20	450	640	495
PRB10-6011	55	90	18	335	500	495
PRB10-6211	55	100	21	500	665	450
PRB10-6012	60	95	18	350	530	450
PRB10-6212	60	110	22	525	730	405
PRB10-6013	65	100	18	365	555	430
PRB10-6014	70	110	20	380	590	405

PRTB10 塑料滚动推力轴承 Plastic rolling thrust bearings



订购编码 Order:

PRTB10-51100

产品规格 Specification

轴承材料标准配置
Standard material: POM

订购编码 Order PN	d [mm]	D [mm]	H [mm]	重量 weight [kg]
PRTB10-51100	10	24	9	0.004
PRTB10-51200	10	26	11	0.005
PRTB10-51101	12	26	9	0.004
PRTB10-51201	12	28	11	0.006
PRTB10-51102	15	28	9	0.004
PRTB10-51202	15	32	12	0.008
PRTB10-51103	17	30	9	0.004
PRTB10-51203	17	35	12	0.009
PRTB10-51104	20	35	10	0.007
PRTB10-51204	20	40	14	0.014
PRTB10-51105	25	42	11	0.01

订购编码 Order PN	d [mm]	D [mm]	H [mm]	重量 weight [kg]
PRTB10-51205	25	47	15	0.02
PRTB10-51106	30	47	11	0.011
PRTB10-51206	30	52	16	0.026
PRTB10-51107	35	52	12	0.014
PRTB10-51207	35	62	18	0.037
PRTB10-51108	40	60	13	0.021
PRTB10-51208	40	68	19	0.049
PRTB10-51109	45	65	14	0.026
PRTB10-51209	45	73	20	0.056
PRTB10-51110	50	70	14	0.028
PRTB10-51210	50	78	22	0.068

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

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CSB全球 CSB Global

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