English Chinese

SBB TECH
Ball & Bearing

www.SBB.co.kr

SBB
BALL & BEARING

Bearing
轴承

Ceramic
PEEK
Hybrid
Integral
Guide
Plastic
Ultra-thin
Cross Roller

Semiconductor Robot
半导体机器人

Componente of Semiconductor Robot
Semiconductor Robot Repair

Reducer
减速器

SCSD Component type
SFR Component type
SCSF Component type
SCSF–MINI Unit type

Actuater
人及驱动器

Robo Actuater
Moduler Robot
Optimized product design

Ball
球

ZrO_2
Al_2O_3
SiC
Si_3N_4
Engineering Plastic
Tungsten Carbide

02 Contents

03 Introduction of SBB tech

04 Bearing
- 04 Ceramic Bearing
- 05 PEEK Bearing
- 06 Hybrid Bearing
- 07 Integral Bearing
- 07 Guide Bearing
- 07 Plastic Bearing
- 08 Robo Bearing
- 09 Cross Roller Bearing

10 Semiconductor Robot
- 10 Componente of Semiconductor Robot
- 11 Semiconductor Robot Repair

12 Ball
- ZrO_2 Ball
- Al_2O_3 Ball
- SiC Ball
- Si_3N_4 Ball
- Engineering Plastic Ball
- Tungsten Carbide Ball

13 Reducer
- SCSD Component type
- SFR Component type
- SCSF Component type
- SCSF-MINI Unit type

14 Actuater
- 14 Robo Actuater
- 15 Moduler Robot & Actuater
- 15 Optimized product design

16 Other products
- Ball Casters
- Engineering Plastic Bolt - Bolt &Nut
- Other Processed Goods

17 SEOHAN Care

18 Data Sheet

SBB tech is..

SBB is a specialized manufacturer for special precision operating parts for special environments.
With 25 years of rich technical capabilities, we have produced and supplied complex bearing, precision control reducer which were once for import only, and have expanded our business areas to factory automation MR actuator and multi-joint robot for cooperation, which are the foundation of the global fourth industrial revolution. Thanks to the localization of special bearing and ultra-precision reducer which were only for imports in the past, we have solved high price, delivery and A/S problems of imported products and also contributed to the reinforcement of competitiveness of the manufacturing industry, a national infrastructure industry. SBB will continue to work with you in factory automation, robot for cooperation, ultra-precision reducer, semiconductor, LCD manufacturing equipment, physical-chemical device, aviation, weaponry and all other industries that require technologies.

我们是特殊环境用特殊精密驱动部件专业制造企业(株)SBB科技。
本公司正以25年来的丰富的自主技术力为基础，自主生产供应曾经只能依靠进口的特殊环境用复合轴承、精密控制减速器等，并凭借拥有的原创技术把事业领域扩大到全世界第4次产业革命的麦加工厂自动化用MR传动装置、协作用多关节机器人等。曾经只能依靠进口的特殊轴承、超精密减速器等的国产化开发解决了进口产品的高单价、交货期、A/s等的问题，并且为加强国家基础产业--制造业的竞争力做出了贡献。今后(株)SBB将横跨工厂自动化、协作用机器人、超精密控制减速器、半导体、LCD制造装备、理化机器、航空、武器等要求新技术的所有产业领域一起发展成长。

CERAMIC BEARING

陶瓷轴承

Application Area

- (Semiconductor PDP, LCD) Manufacture facilities
- Plating equipment
- Synthetic fiber manufacture facilities
- Facilities for optical films
- Various heat treating furnaces
- Vaccum equipments

- (半导体, PDP, LCD) 制造设备
- 镀金装置
- 合成纤维制造设备
- 光学薄膜设备
- 各种热处理炉
- 真空设备等

Features

- Strong corrosion resistance – Applicable to strong acid, alkali, and sea water
- Heat resistance – No change in hardness or strength at high temperature
- Nonmagnetic, insulating property : Applicable to magnetic field, preventing electricity generation
- Light weight : 1/4 lighter than normal bearings
- High hardness : Hardness and direct elasticity coefficients are higher than that of bearing steel
- Excellent high-speed rotation : Reducing centrifugal force when rotating owing to light motor body (ball)
- Self-lubricating - No oil or grease is required as it is self-lubricating

- 强耐蚀性 - 可在强酸, 强碱, 海水中使用。
- 耐热性 - 在高温下没有硬度, 强度变化。
- 非磁性 / 绝缘性 - 在磁场中也可以使用, 可防止起电。
- 轻量性 - 比 一般轴承轻 1/4。
- 高钢性 - 硬度, 纵弹性系数比轴承钢高。
- 高速旋转优秀 - 因电动体(球)较轻, 所以旋转时可以减少远心力
- 自我润滑性-具有自我润滑性，不需要Oil、Grease

Manufacture

- Deep groove ball bearing
- Angular contact ball bearing
- Thrust ball bearing
- Self-aligning ball bearing

- 深沟球轴承
- 角接触轴承
- 推力轴承
- 自动调心轴承

Service Environment

- Air
- Vacuum
- Corrosion resistance
- High temperature

- 大气中
- 真空
- 耐蚀
- 高温

PEEK BEARING

PEEK轴承

Application Area

- Semiconductor
- PDP / LCD manufacture facilities
- Chemical equipments
- Food equipments
- Precision machine industry

- 半导体
- PDP / LCD制造设备
- 化学设备
- 食品设备
- 精密机械产业

Features

- Excellent heat resistance : Continuous operating temperature 250℃
- Excellent corrosion resistance / Solvent resistance - Submorphous resin that is not melt with all general solvents
- Self-lubricative : No need for oil or grease as being self-lubricative
- Outstanding mechanical properties : Great tensile strength, flexural strength
- Excellent radioactivity resistance - No property change at gamma ray radiation of over 1,000M Rad
- Superb electric properties - Excellent electric insulating dielectric constant and volume resistivity at a high temperature (200℃)
- Approved by FDA in USA

- 耐热性优秀 - 连续使用温度250℃
- 耐蚀性 / 耐溶剂性优秀 -在所有普通Solvent中都不会溶解的准结晶性树脂
- 自动润滑性 - 具有自动润滑性, 无需 Oil, Grease。
- 机械性质优秀 - 抗张强度、弯曲强度优秀
- 耐放射性优秀 - 即使在1,000M Rad以上的伽马射线放射性区域物性也没有变化
- 电气性质优秀 - 在高温(200℃)条件下电绝缘性电容率及体积固有电阻等的特性优秀
- 美国FDA认证

Manufacture

- Deep groove ball bearing
- Angular contact ball bearing
- Thrust ball bearing
- Self-aligning ball bearing

- 深沟球轴承
- 角接触轴承
- 推力轴承
- 自动调心轴承

HYBRID BEARING

混合型轴承

Service Environment

- Air
- Corrosion resistance

- 大气中
- 耐蚀

When using in a place with high temperature

- Inner·outer race : SUS440C
- BALL : Si_3N_4
- Retainer : PEEK, SUS
- Cover : SUS304, PEEK, NBR
- OIL, GREASE : Appropriate lubricant applicable after consultation

- 内外轮 : SUS440C
- 球 : Si_3N_4
- Retainer : PEEK, SUS
- Cover : SUS304, PEEK, NBR
- OIL, GREASE : 协议后可使用适合的润滑油

When using in clean environment & vaccum state

- Inner·outer race : SUS440C
- BALL : ZrO_2, Si_3N_4
- Cover : SUS304, PEEK
- OIL, GREASE : Appropriate lubricant applicable after consultation

- 内外轮 : SUS440C
- 球 : ZrO_2, Si_3N_4
- Cover : SUS304, PEEK
- OIL, GREASE : 协议后可使用适合的润滑油

When using in normal standby state

- Inner·outer race : SUS440C
- BALL : ZrO_2, SUS316
- Retainer : NYLON, SUS
- Cover : SUS304
- OIL, GREASE : Appropriate lubricant applicable after consultation

- 内外轮 : SUS440C
- 球 : ZrO_2, SUS316
- Retainer : NYLON, SUS
- Cover : SUS304
- OIL, GREASE : 协议后可使用适合的润滑油

INTEGRAL BEARING

一体型轴承

Features

- Disadvantages of Rulon bearing, oil-less bearing, and bushing bearing whose rolling and rotary motions are not active are complemented and produced into an integral model and the installation became easier by excluding bearing housing.
- Material : PEEK, PCTFE, PVC, UHMW-PE(UHMWPE, UHMW), etc.
- Semiconductor and LCD manufacture facilities, food equipments

- 一体型轴承不仅解决了RULON轴承、无油轴承以及衬套轴承的滚动不顺畅的缺点，更因省却了轴套而极大地方便了安装
- 材质：PEEK、PCTFE、PVC、UHMW-PE(UHMWPE, UHMW)等

导向轴承

GUIDE BEARING

树脂轴承

PLASTIC BEARING

- Material(材质) : UHMW-PE, PP, POM, PCTFE, PVDF, PEEK, PTFE

ROBO BEARING

ROBO轴承

Manufacture Standard

- Bearing Shaft Diameter 25.4mm ~ 1,106mm
- Radial type, 4-point contact type, angular type, etc.

- 轴径 25.4mm ~ 1,106mm
- 径向接触型、四点接触型、角接触型

Application Area

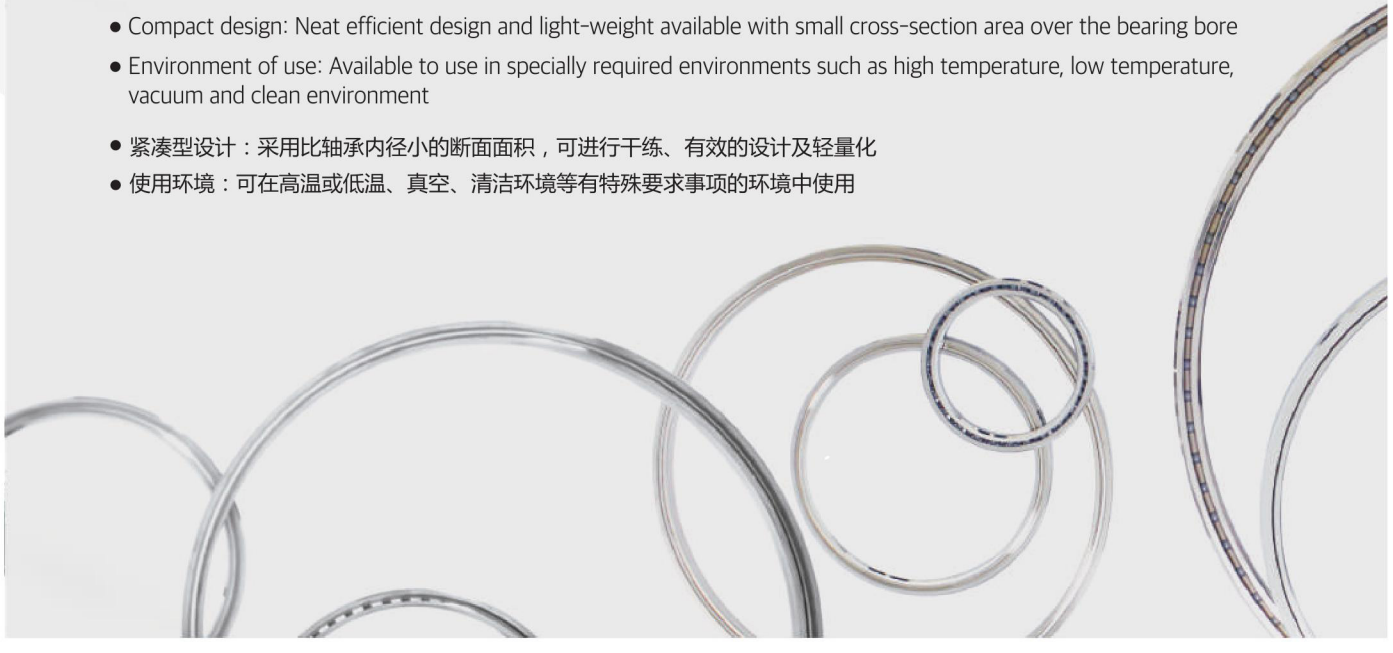
- Semiconductor manufacture equipments
- Robots
- Textile machineries
- Rotary table

- 半导体制造设备
- 机器人
- 纤维机械
- 转盘

Features

- Compact design: Neat efficient design and light-weight available with small cross-section area over the bearing bore
- Environment of use: Available to use in specially required environments such as high temperature, low temperature, vacuum and clean environment

- 紧凑型设计：采用比轴承内径小的断面面积，可进行干练、有效的设计及轻量化
- 使用环境：可在高温或低温、真空、清洁环境等有特殊要求事项的环境中使用



CROSS ROLLER BEARING

十字交叉滚柱轴承

SCR-U (Inner / Outer race-combined type)

- There is no need for push-flange and housing with processed assembly groove and are nearly no effects on functions so stable rotation and torque can be achieved.
- 加工了组装用槽, 无需另外的按压法兰和外壳, 组装时几乎不会影响性能, 可获得稳定的旋转和扭矩. 可使用内外轮旋转.

SCR-B (Divided outer race / Inner race-combined type)

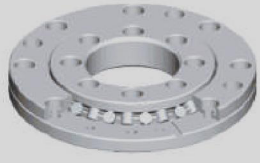
- Applicable to where running accuracy of inner race is required
- 用于需要内轮的旋转精度的地方.

SCR-E (Divided inner race / Outer race-combined type)

- Applicable to where running accuracy of outer race is required
- 用于需要外轮的旋转精度的地方.

SCR-A (Divided outer race / Inner race-combined type)

- Made with SCR-B inner/outer race in the minimum thickness, applicable to miniaturization and weight lightening
- 以最小的厚度制作的SCR-B型的内外轮。可适用于小型、轻量化.



SCR-X (Custom-Design)

- Custom-design suitable for equipments and circumstances
- 按照装置和状况制作的类型.

SCR-BS / ES Type

- Made with the same standard as SCR-B and SCR-E are made with but precision type
- 规格与SCR-B和SCR-E相同, 属于超精密级.

COMPONENTS OF SEMICONDUCTOR ROBOT

半导体机器人配件

- Semiconductor Robot Bearings , Wrist Ass'y, Arm Parts for 200 mm / 300 mm (8 inch / 12 inch)
- 半导体机器人轴承，手腕总成，臂部200毫米/300毫米（8寸/12寸）

SEMICONDUCTOR ROBOT REPAIR

半导体行业机器人维护

VHP Robot
Single Blade

200 mm (8 inch)

HP/HP+ Robot

VHP/VHP+ Robot

Ultima HP Robot Arm Set

P5000 Robot Head

Brooks Mag7
Arm Assembly

Mattson Aspen
Robot Head

Ulvac Robot
Ceraus Arm

LCD Robot Cylinder

300 mm (12 inch)

VHP Robot
DPS_Ultima

VHP Robot
Producer

XP Robot

Ulvac Robot Arm

Brooks Robot Arm
Inova_Altos

BALL

球

ZrO_2
氧化锆球

Al_2O_3
氧化铝球

SiC
碳化硅球

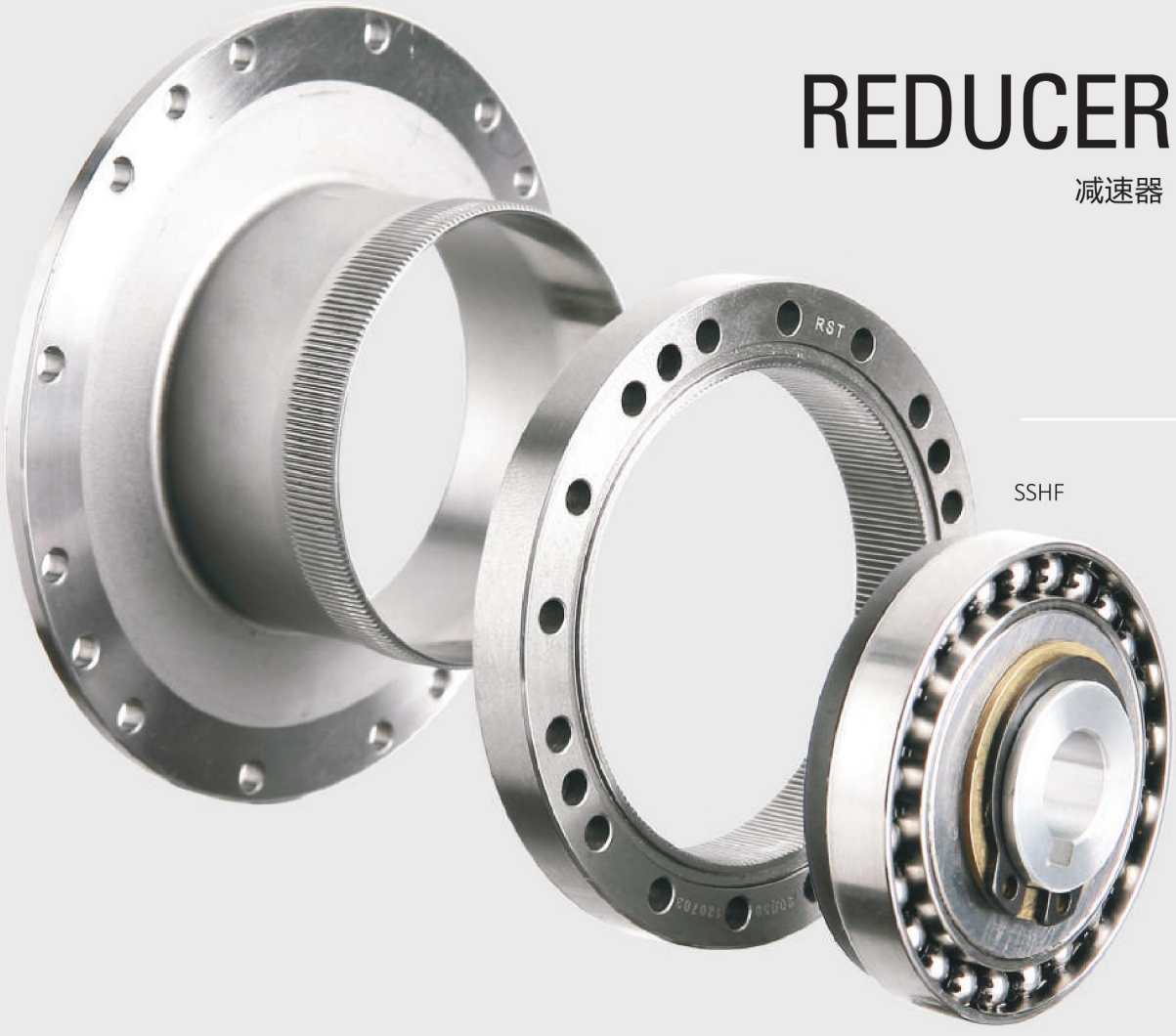
Si_3N_4
氮化硅球

Engineering Plastic
工程塑料球

Tungsten Carbide
钨钢球

REDUCER

减速器



SSHF

Features of SBB robot reducer

- Miniaturization / weight lightening
- Non Backlash
- Easy design and assembly
- Higher positioning accuracy, repetitive positioning accuracy, and running accuracy than those of other reducers
- Higher hardness and more effective than small models

- 小型 / 轻量化
- Non Backlash
- 设计和组装简单
- 与其他减速器相比，定位精度, 反复定位精度以及旋转精度高
- 与小型相比, 钢性更高, 效率更大.

SCSD Component type

SFR Component type

SCSF Component type

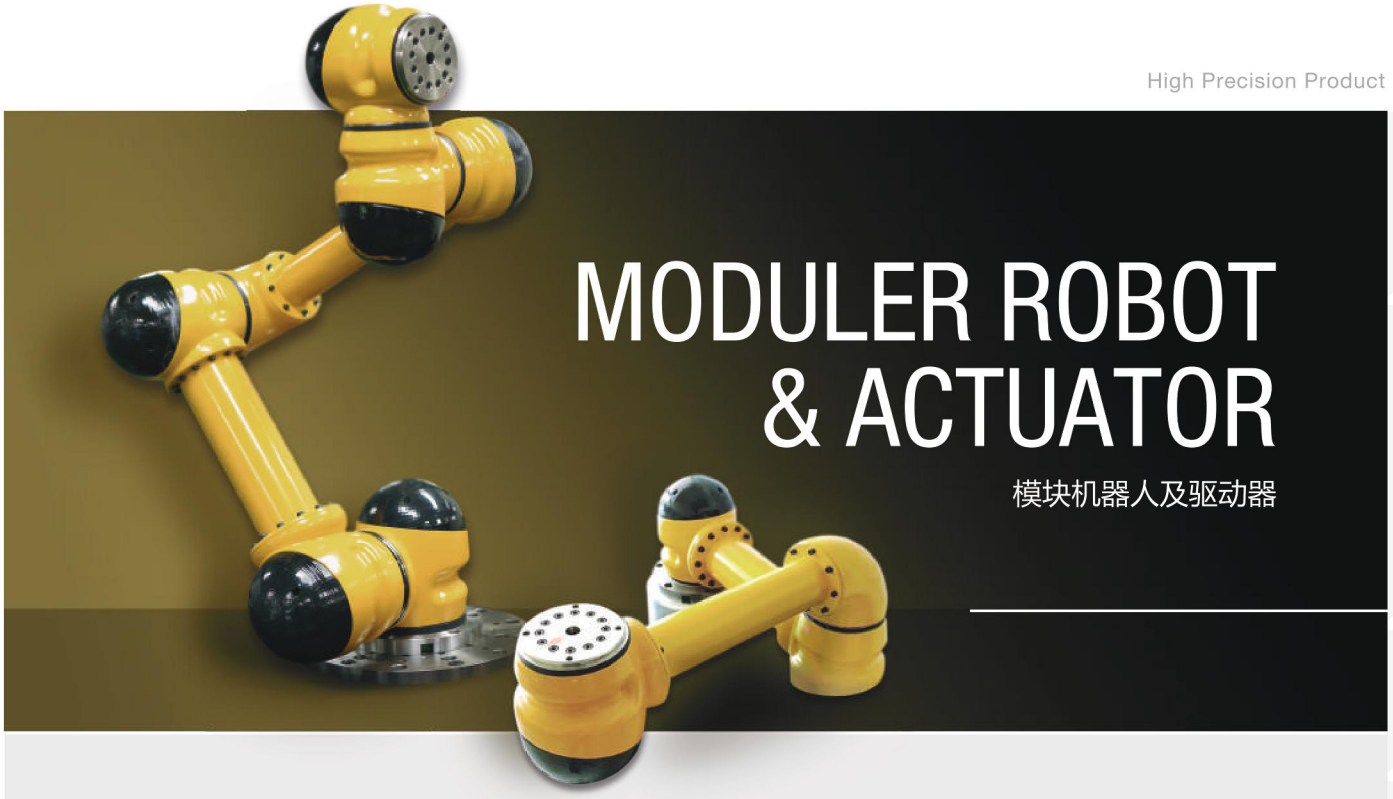
SCSF-MINI Unit type

ROBO ACTUATOR

机器人及驱动器

Series 系列	Rating Torque 转矩等级	Average Maximum 平均最大	Weight 重量	Motor 发动机	RPM
MR11	0.66	1.2	1.2	60w	2,000
MR14	1	1.4	1.4	60w	2,000
MR17	3.2	5.2	2.1	120W	2,000
MR20	5.3	6.5	2.7	300W	3,000
MR25	8.9	14	4.7	300W	3,000
MR32	18	29	7.3	500W	2,500

Driver 驱动程序	PWM control with 16 kHz switching, Sinusoidal wave PWM控制 (16 kHz开关, 正弦波)
Encoder 编码器	Magnetic encoder 32768ppr, Battery backup multi-turn absolute 磁性编码器 32768ppr, 电池备份多圈绝对式
Power 电源	DC 48V
Control Mode 控制模式	Position, Velocity, Torque, Zero Point 位置、速度、转矩、原点
Alam 警报	Over current, Over load, Over heat, Position Error, Current limiting, Overvoltage, Low voltage, Speeding, Encoder Error, Etc. 过电流、过负荷、过热、位置误差、电流限制、过电压、低电压、超速、编码器故障等
Comm. I/F 通信输入/输出	EtherCAT (CoE,EoE,FoE) or 485,232
Comm. Period 通信时间	Max 250us, DC Sync mode support 最大 250us, 支持DC Sync 模式
Safety 安全	Impact sensor by accelerometer in x,y,z direction (Option) 借助X, Y, Z方向加速度计的冲击传感器(选项)

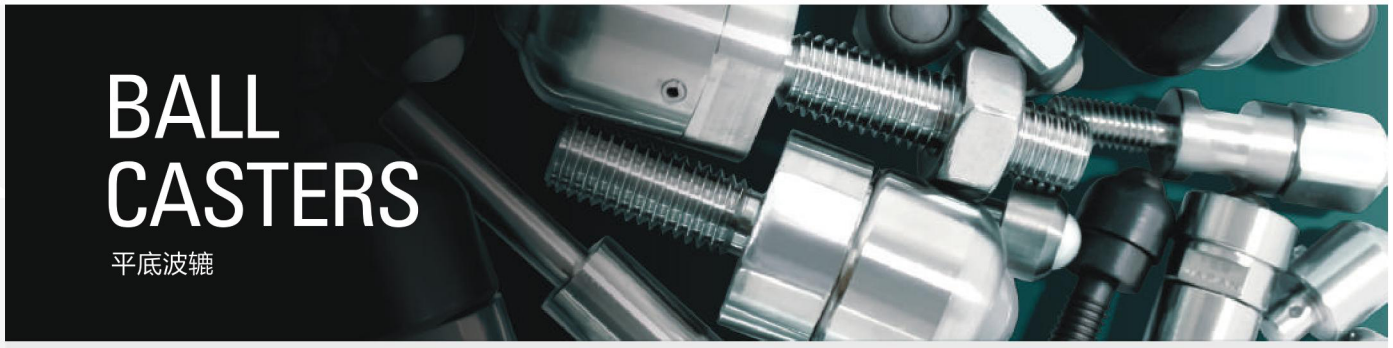


MODULER ROBOT & ACTUATOR

模块机器人及驱动器

Optimized product design and production for customers'requirements

最适合顾客要求的产品设计及制作



BALL CASTERS

平底波辘

Engineering Plastic Bolt

BOLT & NUT

螺栓 & 螺母

PPS Bolt
ceramic Bolt
Ultem Bolt
Available

〈BOLT〉 〈NUT〉

Bolt & Nut Type 螺栓 & 螺母 型		Product 产品	Order Method 如何订购
PEEK Socket Head Cap Screw	内六角螺钉	M3~M12	PKN/WB-M_X_L
PEEK, HPP Hexagon Bolt	六角螺栓	M3~M12	PKN/HB-M_X_L
PEEK Rounded Head Cap Screw(+)	圆头螺钉	M3~M6	PKN/CB-M_X_L
PEEK Flat Head Cap Screw-Wrench	内六角扳手	M3~M6	PKN/DB-M_X_L(WRENCH)
PEEK Flat Head Cap Screw(+)	内六角平头螺钉	M3~M6	PKN/DB-M_X_L(+)
PEEK Truss Head Cap Screw(+)	圆头螺钉	M3~M6	PKN/TB-M_X_L
PEEK Socket Set Screw	套筒固定螺丝	M3~M12	PKN/HS-M_X_L
PEEK Taper Plug	锥形塞	1/8, 1/4, 3/8	PKN/PT-R_/_
PEEK Hexagon Nut	六角螺母	M3~M12	PKN/HN-M_
PEEK Washer	垫圈	M3~M12	PKN/W-S_

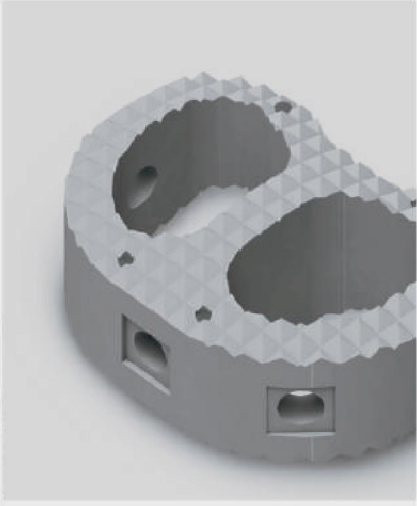
OTHER PROCESSED GOODS

其他加工品

SEOHAN Care

SEOHAN Care is a leading company who promises to keep your healthy life.

SEOHAN Care是一家可以承诺您健康生活的一流企业



Properties of Ceramics

陶瓷轴承材料的物理•化学性质

Features 特性 / Material 材质		Ceramic 陶瓷				Stainless 不锈钢		Bearing Steel 轴承钢
		Si_3N_4	SiC	ZrO_2	Al_2O_3	SUS 440C	SUS 316L	SUJ2
Density 密度	g/㎤	3.26	3.2	6.05	3.98	7.8	7.98	7.8
Hardness 硬度	kg/㎟	1,600	2,800	1,250	1,800	230	160	700~800
Toughness 韧性	MN/m	6.0	2.5	7.0	3.0	-	-	50~60
Bending Strength 弯曲强度	kg/㎟	100	50	120	40	-	24	-
Young's Modulus 系数	106kg/㎠	3.2	4.0	2.0	3.8	2.0	2.0	2.1
Specific Heat 比率	cal/g℃	0.19	0.16	-	0.19	0.11	0.11	0.11
Thermal Expansion coeff 热膨胀率	X10-6/㎟	3.5	4.2	9.0	7.0	10.1	10.5	10.9
Heat Shock Resistance 热冲击性	ΔT,℃	900	400	280	200	-	-	
Thermal Conductivity 热传导率	ω/mk	29	120	3.0	23	-	-	
Fatigue life 疲劳寿命		100X	50X	80X	40X	0.5X	1X	0.1X
Application Temperature 稳定使用温度	℃	1,200	1,500	800	1,600	260	260	180
Corrosion resistant 耐蚀性	Acid 强酸	Good	Excellent	Good	Excellent	Fair	Fair	Poor
	Alkalis 强碱	Good	Excellent	Good	Excellent	Fair	Fair	Poor
Magnetism 磁性(磁场)		Non-Magnetism 非磁性体				Weak-Magnetism 弱磁性体		Strong-Magnetism 强磁性体
Conductivity / Insulation 导电性/绝缘		Insulator 绝缘体				Conductivity 导电体		
Features 特征		High-temperature strength, Corrosion resistant, Few quantity of abrasion – 高强度 高强度耐热 耐蚀性 耐磨损	Corrosion resistant, Heat resistance, High hardness – 高温强度 耐磨损 耐蚀性 高硬度	High hardness, Few quantity of abration, Thermal insulation, Corrosion resistant – 耐磨损 耐蚀性 耐热性 高纯度	Corrosion resistant, High Purity, Heat resistance, Few quantity of abrasion – 耐蚀性 高纯度 高温强度	Corrosion resistant – 耐蚀性	Corrosion resistant – 耐蚀性	
Application 用途		Bearing Chemical Pump nozzle Parts of an automobile – 轴承 化学泵 喷嘴 汽车配件 热交换器配件等	Bearing Engine parts Machine part Seal – 轴承 发动机配件 机械配件 Seal类	Bearing Dies Various guides roreo Various valves – 轴承 扳牙 各种导向轮 各种阀门等	Pumps Bearing Manufacturing Equipment Parts Electric heating parts – 泵 半导体 制造设备配件 电气绝缘配件	Bearing Boiler Knife – 轴承 锅炉 刀具材料	Bearing Chemical manufacturing plant part – 轴承 化学制造设备配件	Bearing – 轴承

SBB Ball (A.F.B.M.A-Standard Grades and Tolerances)

ISO3290标准等级和公差

AFBMA Grade AFBMA级	Devlation From Spherical From Devlation形/球形		Allowable Lot Dia. Variation 允许批量直径/变化		Basic Diameter Tolerance 基本直径/公差		Maximum Marking Increwents 最大标志/增量		Surface Roughness (Ra) 表面/粗糙度(Ra)	
	in inches	μm	in inches	μm	in inches	μm	in inches	μm	in inches	μm
3	.000003	0.08	.000005	0.13	±.00003	0.76	.000010	0.25	.5	0.012
5	.000005	0.13	.000010	0.25	±.00005	1.27	.000010	0.25	1.0	0.025
10	.000010	0.25	.000020	0.51	±.0001	2.54	.000010	0.25	0.8	0.020
16	.000016	0.38	.000032	0.76	±.0001	2.54	.000010	0.25	1.0	0.025
24	.000024	0.63	.000048	1.27	±.0001	2.54	.000010	0.25	2.0	0.050
48	.000048	1.27	.000092	2.54	±.0002	5.08	.000050	0.12	3.0	0.076
100	.0001	2.50	.0002	5.08	±.0005	12.70	.0001	2.54	5.0	0.120
200	.0001	5.08	.0004	10.20	±.001	25.40	.0002	5.08	8.0	0.2.3
500	.0005	12.70	.001	25.40	±.002	50.80	.0005	12.70	-	-
1000	.0001	25.40	.002	50.80	±.005	127.00	.001	25.40	-	-

Properties of Various Fluoropolymers

代表性氟树脂的物性表

	Features 特性	Unit 单位	ASTM Test Method ASTM试验方法	PTFE Polytetra-fluoro-ethylene	PEEK PolyEther-Ether Ketone	PCTFE Polychloro-trifluoro-ethylene
Physical 物理·热性质	Specific gravity 比重		D792	2.14-2.20	1.32	2.1-2.2
	Melting point 融点	℃	–	327	343	220
	Coeff of linear thermal expansion 线膨胀系数	10-5/℃	D696	9.9 (23~66℃)	4.7	4.5~7.0
	Thermal conductivity 热传导率	10-4cal/cm·s·℃	C177	6.0	0.25	4.7~5.3
	Refraction ratio 曲折率	D572	D572	1.35	–	–
	Water absorption 吸收率	% (24h)	D570	<0.01	0.5	–
	Heat resistance temperature(max) 耐热温度	℃	–	260	260	180
Mechanical 机械性质	Mechanical tensile strengh 抗张强度	kg f/cm²	D638	140~350	980	315~420
	Tensile elongation 伸展率	%	D638	200~400	50	80~250
	Compressive strength 压缩强度	kg f/cm²	D695	120	1,200	320~520
	Flexural strength 曲线强度	kg f/cm²	D790	–	1,730	520~650
	Flexural modulus of elasticity 曲线弹性率	kg f/cm²×10³				
		(22.8℃)	D790	5.6	42	13.0~18.0
	IZOD impact 冲击强度	kgf . cm/cm	D256	16.3	7.2	13.6~14.7
	Hardness 硬度	Rockwell	D785	–	99	R 75~95
		Durometer	D2240	50-55	116	80
	Coeff of friction 动摩擦系数	(7kgf/cm²)				
		(3m/min)STEEL	–	0.10	0.34	0.39
Electrical 电气性质	Electricalvolume resistance 体积抵抗率	Ω- cm	D257	>1018	4.9×1010	2.0×1014
	Suface resistance 表面抵抗率	Ω	D257	>1016	–	–
	Dielectric strength 绝缘破坏强度	(1/8min後)				
		KV/mm	D149	19.2		10.4
	Dielectric constant 诱导率	(60Hz)		<2.1	190	8.4
		(106Hz)	D150	<2.1	–	6.43
	Dissipation factor 诱电正接	(60Hz)		<0.0002	<0.0002	0.049
		(106Hz)	D150	<0.0002	<0.0003	0.17
	Wear Arc 弧电阻率	s	D495	> 300	>300	50~70
Chemical 化学性质	Wear sunlight 日光影响		–	◎	◎	◎
	Wear acid 耐酸性		D543	◎	◎	◎
	Wear alkali 耐碱性		D543	◎	◎	◎
	Volume resistance 耐溶剂性		–	◎	◎	o

SBB Ball (ISO 3290 Standard Grades and Tolerances)

ISO3290标准等级和公差

ISO 3290 Grade ISO 3290 级	Basic Diameter Tolerance 基本直径公差	Lot Variation 批量变化	Allowable Gauge Interval 允许测量间隔	Subgauge 分规值	Subgauge Interval 分规值区间	Ball Dia, Variation 球的直径，变化	Deviation/ Spherical Form 偏差形式/球形	Surface Roughness(Ra) 表面粗糙度(Ra)
	μm	μm	μm	μm	μm	μm	μm	μm
3	±5	0.13	0.500	±0.2	0.1	0.08	0.080	0.012
5	±5	0.25	1.000	±0.4	0.2	0.13	0.130	0.020
10	±9	0.50	1.000	±0.4	0.2	0.25	0.250	0.025
16	±10	0.80	2.000	±0.8	0.4	0.40	0.400	0.032
20	±10	1.00	2.000	±0.8	0.4	0.50	0.500	0.040
28	±12	1.40	2.000	±0.8	0.4	0.70	0.700	0.050
40	±16	2.00	4.000	±1.6	0.8	1.00	1.000	0.080
100	±40	5.00	10.000	±4.0	2.0	2.50	2.500	0.125
200	±60	10.00	15.000	±6.0	3.0	6.00	5.000	0.200

*10 Grade : SBB Type main grade. | 10级：SBB型主级。

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SBB
BALL & BEARING

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