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CEMA 南宜國際材料股份有限公司
 SINMAT TECHNOLOGY CORP. LTD.



新竹總公司

- +886-3-5601270
- +886-3-5601290
- service@cemabearing.com
- 30288 新竹縣竹北市台元科技園區台元二街10號4樓之2

台南辦事處

- +886-6-599-2080
- +886-6-599-2090
- service@cemabearing.com
- 74442 台南市新市區國際路13號6樓之619室

昆山南宜喜瑪商貿有限公司

- +86-512-5527-6656
- +86-512-5527-8056
- service@cemabearing.com.cn
- 215300 昆山市玉山鎮農豐東路159號C棟3F



www.cemabearing.com

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- P01 陶瓷球
Ceramic Ball
- P03 氧化鋯陶瓷軸承
ZrO₂ Ceramic Bearing For Industry
- P04 碳化矽陶瓷軸承
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陶瓷球

Ceramic Ball



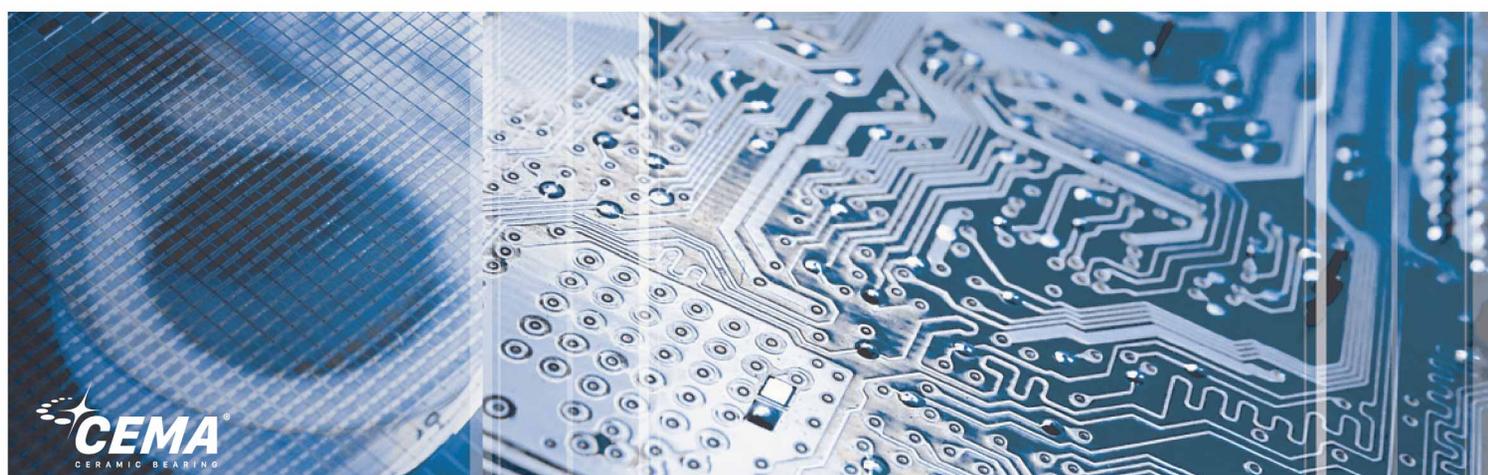
Ceramic Ball Series

陶瓷球比金屬鋼球擁有許多優異的特性，因此可使用於高速運轉、高溫、真空、化學惡劣環境或絕緣環境中，能提高軸承的使用壽命及性能。

Ceramic Ball have many advantages comparing with Steel Ball, the bearing come with ceramic ball can increase bearings performance and extend bearing life when used in High speed, Chemical, Vacuum and High temperature environment.

產品特色 Product Feature

- 耐化性佳:
陶瓷球可耐大部分的化學品腐蝕
Good corrosion resistance.
- 重量輕:
Si₃N₄ 陶瓷球是鋼珠的 40% 重量
Si₃N₄ ball only 40% weight of steel ball.
- 硬度高:
Si₃N₄ 陶瓷球是的硬度比鋼珠高一倍
Better hardness than steel ball.
- 耐高溫:
Si₃N₄ 陶瓷球可以在 800°C 時仍維持其機械特性
Good mechanical property even at 800°C temperature.
- 增圓度佳，摩擦係數小
Better ball geometry & surface finish.
- 在低油脂狀況下可高速運轉
Work in low lubrication condition.



Al₂O₃ 氧化鋁陶瓷球



Product	Al ₂ O ₃ Ball
Density	3.93 g/cm
Color	Ivory
Grade	G28-G100
Ball Size Available	1.00-50.80mm

ZrO₂ 氧化鋯陶瓷球



Product	ZrO ₂ Ball
Density	6.0 g/cm
Color	White
Grade	G10
Ball Size Available	0.80-25.40mm

Si₃N₄ 氮化矽陶瓷球



Product	Si ₃ N ₄ Ball
Density	3.2 g/cm
Color	Black
Grade	G5
Ball Size Available	0.80-76.20mm

SiC 碳化矽陶瓷球



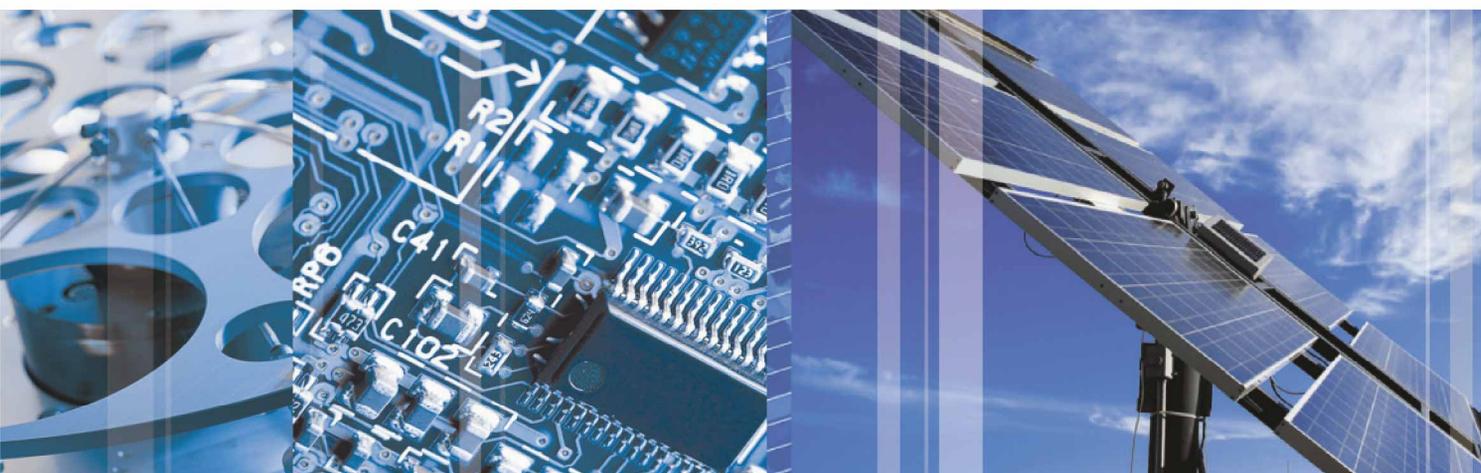
Product	SiC Ball
Density	3.15 g/cm
Color	Black
Grade	G10-G16
Ball Size Available	1.00-19.05mm

陶瓷球製程 Manufacturing Process



等級區分 Ceramic Ball Grade

等級 Grade	球直徑允許變動量 Ball Dia Variation VDWS (um)	可允許球形誤差 Allowable Deviation From Spherical Form (um)	最大表面粗糙度 Surface Roughness (um)	批直徑允許變動量 Lot Dia. (VDWI, um)
G5	0.13	0.13	0.014	0.25
G10	0.25	0.25	0.02	0.5
G16	0.4	0.4	0.032	0.8
G20	0.5	0.5	0.04	1



氧化鋯陶瓷軸承

ZrO₂ Ceramic Bearing For Industry



產品特色 Product Feature

- 在腐蝕環境中比不鏽鋼軸承壽命更長
Excellent chemical resistance than stainless steel bearing.
- 不加潤滑油脂，避免無塵環境中污染
No grease contamination concern in clean room application.
- 良好的耐腐蝕特性，在大部分的酸鹼和溶劑環境中都可使用
Good corrosion resistance at most acid&alkaline environment.
- 強力型PEEK保持器使用壽命更長久
Power type PEEK retainer to extend bearing life.
- 無磁性，絕緣
Non-magnetism, insulation.

CF Series

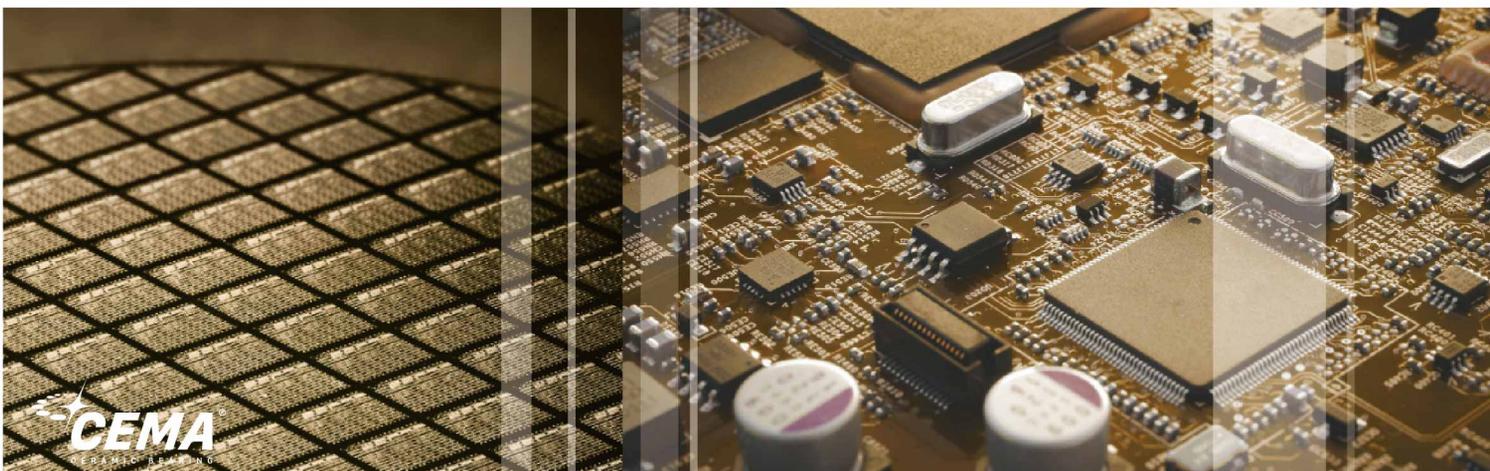
內外環	Rings	ZrO ₂ Ceramic
保持器	Retainer	PEEK Resin
滾珠	Ball	ZrO ₂ ; Si ₃ N ₄ Ball
產品料號	P/N	CF□□□□KZ

應用場合 Application

- 半導體濕式設備 Semiconductor wet equipment
- LCD 濕式設備 LCD wet equipment
- 食品機械設備 Food equipment
- 電鍍設備 Plating equipment
- 化工設備 Chemical process equipment

使用注意事項 Operation Note

- 陶瓷軸承公差配合時，以間隙配合為宜
Recommend loose clearance for ceramic bearing installation fit.
- 軸承裝置時，請勿以榔頭敲打，避免破裂
Don't strike the bearing when install the bearing to shaft or bearing house.
- 若使用環境有強酸，建議請先與我們討論
Discuss for chemical compatibility when used on strong acid chemical environment.



碳化矽陶瓷軸承

SiC Ceramic Bearing For Industry



SC Series

內外環	Rings	Silicon Carbide (SiC)
保持器	Retainer	Teflon Resin
滾珠	Ball	Silicon Carbide (SiC)
產品料號	P/N	SC□□□□KC

產品特色 Product Feature

- 耐腐蝕性比其他陶瓷材料佳
Excellent chemical resistance than other ceramic material.
- 耐高溫 & 高熱導傳率
High temperature resistance & High thermal conductivity.
- 硬度高，低摩擦係數
Excellent hardness and wear resistance.

陶瓷材質耐化比較

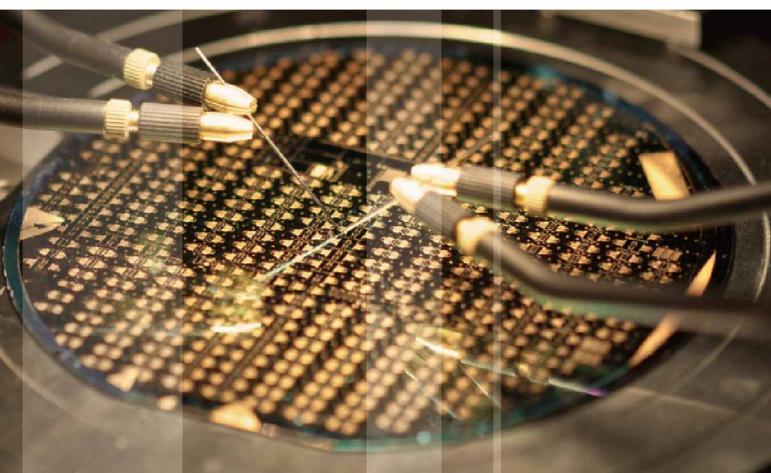
Chemical compatibility for different ceramic material

化學類型 Chemical Type	材質 Material	陶瓷材質 Ceramic Material			不鏽鋼 SUS 440C
		氧化鋯 ZrO ₂	氮化矽 Si ₃ N ₄	碳化矽 SiC	
弱酸 Weak Acid		○	○	◎	X
強酸 Strong Acid		○	△→○	◎	X
鹼 Alkali		○	○	◎	△
高濕 Humid		◎	○	◎	△
價格 Cost		Middle	High	High	Low

◎: Excellent ○: Good △: Application Limited X: Not Recommend

應用場合 Application

- 滾珠軸承用於強酸輸送環境
Ball bearing for strong acid chemical conveyor system.
- PUMP 內軸承套件
Bearing bushes for Pump.

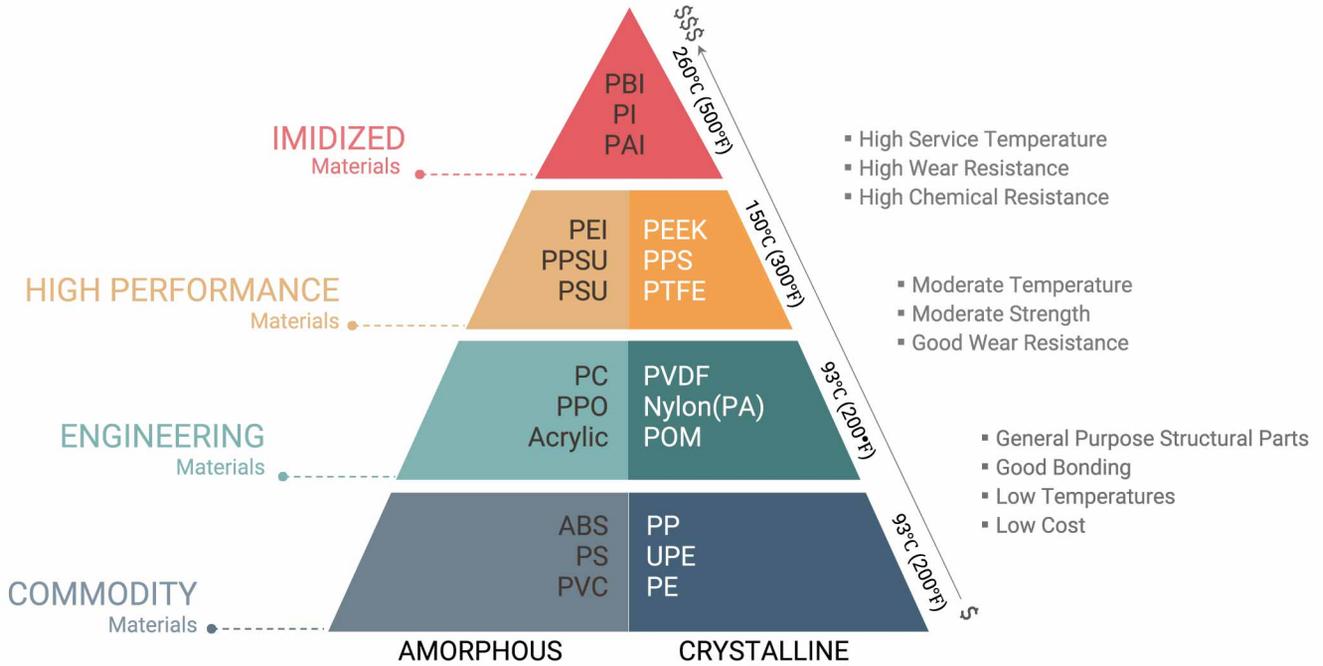


工程塑膠軸承

Engineering Plastic Bearing

工程塑膠依照其耐溫與機械性能，可劃分為一般、高性能與超高性能工程塑膠，具有良好的耐化性、抗腐蝕性、自潤滑性維護簡便且輕量等優勢，適用於半導體、光電、食品、化工等產業。

Engineering plastics are categorized by temperature resistance and mechanical properties into standard, high-performance, and ultra-high-performance materials. With good wear, chemical, corrosion resistance, self-lubricating with low maintenance, lightweight certain features, ideal for semiconductor, optoelectronic, food, chemical, and automation applications.



材質		PEEK	UPE	U1 橡膠	氟橡膠	
機械性質	密度 Density (g/cm³)	1.32	0.94	1.17	1.80	
	硬度 Hardness (Shore D)	90	65~70	65~75	70	
	抗拉強度 Tensile Strength (Mpa)	95	50	85	280	
	摩擦係數 Coff. of Friction (μ)	0.3	0.29	0.4	0.5	
熱性質	最高使用溫度 Max. Operation Temp. (°C)	260	80	100	220	
	線膨脹係數 Coff. of Linear Thermal Expansion (X 10-5/°k)	5	20	-	-	
化學性質	耐化性 Chemical Resistance	酸	◎*	○	△	◎
		鹼	◎	○	△	◎
		溶劑	◎	○	△	○
材料特性	工作特性 Working Characteristics	剛性塑材 耐高溫 耐化性佳	韌性塑材 硬度低 耐化性尚可	特殊彈性體軟硬 適中，具衝擊緩 衝性，耐化性差	氟化橡膠彈性體， 具衝擊緩衝性， 耐化性差	
應用	應用環境 Application	化學環境	水洗環境	水洗環境	化學環境	

* PEEK 材質在濃硫酸及氫氟酸中限制使用 ◎: Excellent ○: Good △: Limited

PEEK 樹脂軸承

Peek Plastic Bearing



產品特色 Product Feature

- PEEK 材質耐溫性佳，連續使用溫度可達 260°C
PEEK material has higher temperature resistance up to 260°C
- 在水、酸、鹼化學品環境有良好的耐化性
Excellent corrosion resistance at most chemical environment.
- 機械強度佳，材質尺寸穩定性良好
Excellent dimension stability & mechanical strength
- PEEK 材質通過食品工業FDA認證
FDA approval for food application industry.

應用場合 Application

- 半導體濕式設備 Semiconductor wet equipment
- 蝕刻設備 LCD wet equipment
- 太陽能濕式設備 Solar Cell wet equipment
- 電鍍設備 Plating equipment
- 食品設備 Food machine

使用注意事項 Operation Note

- PEEK軸承的內外徑公差與內部游隙與一般標準軸承不同，內徑公差0~+0.1mm，外徑公差0~-0.1mm
Tolerances for ID, OD and internal clearance for PEEK bearing are different from standard bearing, ID Tolerance 0~+0.1mm, OD Tolerance 0~-0.1mm
- 在強酸下使用條件時，請先討論其適用性
Discuss for chemical compatibility when used on strong acid chemical environment.
- 樹脂軸承會隨著輸送速度增快而影響壽命
Plastic bearing life will reduce by faster conveyor speed.

Integrated PEEK Bearing



軸承與軸承座合為一體成型的掛架式設計，機台不需另設軸承座拆裝便利，緊臨的方式並排可有效縮減空間，防止玻璃因下沉而造成破片。

Integrates the bearing and housing into single unit, easy to install, requiring no separate mount, side-by-side setup saves space and prevent breakage.

PEEK 止付軸承 Double Oring Seal Type Bearing



內環Oring 設計的止付型軸承能加強軸承與軸心的精密配合，減少兩者之間轉速不一或公差配合不良產生的雙向磨屑污染問題。

The double O-ring seal in inner ring enhances the precision fit between the bearing and shaft, reducing bidirectional wear particles contamination caused by speed differences or poor tolerance matching.

UPE 塑膠軸承 UPE Plastic Bearing



根據應用環境選擇適配材質，可降低太硬導致破片或撞片風險，或太軟容易被割出溝痕造成落塵污染，以延長使用壽命，節省成本。

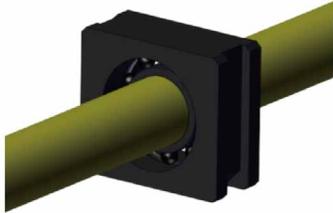
Choosing the appropriate material helps reduce the risk of breakage or impact from overly hard materials, or prevents dust contamination from cuts in overly soft ones—extending service life and reducing costs.

高階導電工程塑膠軸承 ESD Engineering Bearing



應用方案 Application Solution

掛架式導電軸承 Integrated ESD Bearing



金屬軸心與導電式 Roller/ 軸承，電荷經傳導設備接地進行電位中和進而消除靜電

Static electricity is eliminated as the metal shaft and conductive roller/bearing transfer the charge to grounding equipment, neutralizing the potential.

電阻值檢測 Resistance Measurement

導電軸承電阻值規範，可以依需求設定在 $< 10^5 \Omega$ 或是 $10^6 \sim 10^9 \Omega$

The resistance specification of the conductive bearing can be set to $< 10^5 \Omega$ or $10^6 \sim 10^9 \Omega$ as required.

ES Series

在面板製程中，玻璃藉由滾輪搬運輸送接觸摩擦產生靜電。微粒受靜電影響，容易附著在玻璃表面，不斷累積的電荷，會加劇放電擊傷風險，導致產品電性短路或斷電。

In the panel processes, glass panels are transported via rollers, generating static electricity through friction.

Particles influenced by the static charge tend to adhere to the glass surface. As the charge builds up, the risk of electrostatic discharge (ESD) increases, causing that electrical shorts or damage to the product.

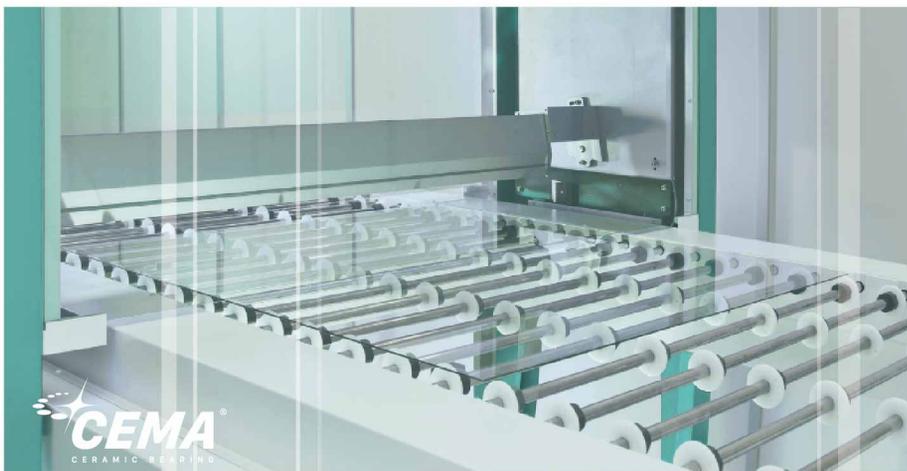
產品特色 Product Feature

- 與一般電氣絕緣的工程塑膠材料不同，添加碳材料的高階導電工程塑膠，透過良好的導電性能，讓靜電電荷被中和

Unlike standard electrically insulating plastics, high performance conductive engineering plastics with carbon additives neutralize static charges through excellent conductivity.

- 有效改善ESD靜電放電短路斷路損害，提高安全性，增加生產良率

Unlike standard electrically insulating plastics, high performance conductive engineering plastics with carbon additives neutralize static charges through excellent conductivity.



不鏽鋼陶瓷混合軸承

Stainless Steel Ceramic Hybrid Bearing



產品特色 Product Feature

- 440C 不鏽鋼內外環比軸承鋼不易生鏽
Stainless steel material rings have good corrosive resistance than chrome steel material.
- 保持器可選擇 304C 不鏽鋼或 PEEK
Cage is available in either 304C stainless or PEEK.
- 使用特殊耐高溫氟素油脂，不易因乾燥造成軸承卡滯
Uses specialized high-temperature fluorinated grease to prevent bearing seizure caused by drying.
- G5 等級氮化矽 Si₃N₄ 陶瓷球重量輕運轉更順暢，熱膨脹係數小，高溫環境下不易因熱脹而影響運轉
Light weight Grade 5 silicon nitride ceramic ball enable smoother operation and lower thermal expansion coefficient helps maintain performance in high temperature environments.

SHB Series

內外環	Rings	Stainless Steel 440C
保持器	Retainer	Stainless Steel
滾珠	Ball	Si ₃ N ₄ Ball
產品料號	P/N	SHB □□□□-□S-C4

應用場合 Application

- LCD UV/IR 高溫輸送 LCD UV/IR high temp. conveyor
- 風刀輸送機構 A/K conveyor
- 硬碟輸送機構 Hard Disk conveyor
- 半導體無塵設備 Semiconductor Cleanroom equip.
- 太陽能高溫輸送 Solar high temp. conveyor
- 真空設備 Vacuum equipment

使用注意事項 Operation Note

- 在沒有潤滑狀況下，不建議用於高速轉速
Don't recommend higher conveyor speed on greaseless situation.
- PEEK 保持器產品建議用於 FPD 製程溶劑類環境輸送
PEEK cages are recommended for use in solvent-based environments in FPD process conveying systems.



陶瓷混合軸承

Ceramic Hybrid Bearing



花鼓內滾珠規格比較 Comparison of Hub Ball

Material	Steel Ball	Si ₃ N ₄ Ball
Ball Grade	Grade10~	Grade 5
Density(g/cm ³)	7.6	3.2
Max.Surface Roughness (Ra.μm)	0.04	0.014
Allowable Deviation from Spherical form (μm)	0.5	0.13
Hardness, HV	700~800	1400~1700

SRC/SRS Series

產品特色 Product Feature

- 金屬內外環具優異強度與密度，適合高負載運動
Steel inner and outer rings provide excellent strength and density for high-load athletic use.
- 搭載ABEC-5 精度等級氮化矽陶瓷球，摩擦係數較金屬球小，硬度較金屬球高，重量僅為金屬球的40%
Equipped with ABEC-5 super high roundness precision Si₃N₄ silicon nitride ceramic ball, offering lower friction, higher hardness, and only 40% weight of steel ball.
- 內含低阻力潤滑油脂
Low torque grease
- 非接觸式塑膠封蓋，減少軸承運轉阻力；可依需求緊配，增加防塵防水力
Non-contact rubber seal to reduce friction; Can be press-fitted as needed to enhance dust and water resistance.
- 運轉順暢且穩定，適合高階自行車與競速直排輪用
Smooth and stable performance, ideal for high-end bicycles and racing inline skates.

應用場合 Application

- 前後花鼓軸承 Front & Rear Hubs
- 五通中軸軸承 Bottom Bracket (B.B)
- 頭碗軸承 Head Sets
- 踏板 Pedal Pivot Axle
- 變速器導輪 Derailleur Pulley
- 競速直排輪 Inline Skate



鍍膜陶瓷混合軸承

Coated Ceramic Hybrid Bearing



應用場合 Application

自行車中軸軸承  Bottom Bracket Bearing

SG3 Series

產品特色 Product Feature

- 在軸承鋼金屬材質上，透過在軸承內外環完整電鍍高達 42.3% 的特殊金屬表層，增加軌道的硬度與防鏽力，減少因環境腐蝕造成的損害

By plating the complete inner and outer ring of the chrome steel bearing with a special metal layer, the hardness and resistance against corrosion of the raceways will increase and reduce bearing damage caused by pollution through corrosion.

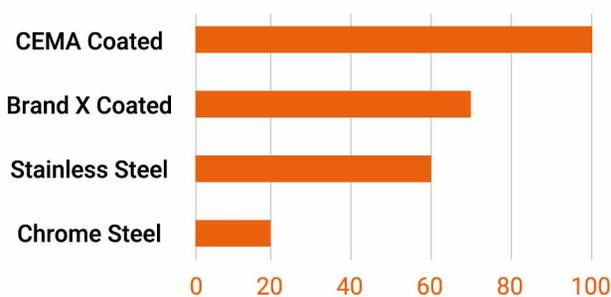
- 擁有同軸承鋼 800HV 的硬度，比不鏽鋼更卓越的防鏽力，有效提升使用壽命

With a hardness of 800HV—equivalent to bearing steel, and superior corrosion resistance compared to stainless steel, it significantly extends bearing service life.

- 搭載最高 G3 等級的氮化矽陶瓷球，真圓度、滑順度、穩定度更升級，重量僅為金屬球的 40%

Equipped with premium G3-grade silicon nitride ceramic balls for enhanced roundness, smoothness and stability, weighing only 40% of metal balls.

防鏽力比較 Anti-Corrosion Comparison (鹽霧試驗 Salt-Spary Test)



根據 ASTM B117 標準，經過 24 小時鹽霧測試結果，(相當於自然曝露環境一年/海岸環境 120 天)，CEMA Coated 系列完全沒有生鏽情況，圖表以 100 分表示其防鏽力。

According to ASTM B117 standards, after 24 hours of Salt Spray testing—equivalent to one year in a natural environment or 120 days in a coastal environment—the CEMA Coated series showed no signs of rust. Its corrosion resistance is rated a full 100 in the chart.

CEMA SG3 Coated

Brand X Coated

Stainless Steel

Chrome Steel



No rust found



Slight rust



Slight rust



Serious rust



Test results from Corrosive Facts by CEMA

材料特性表

Material Property

金屬材料的特性 Property of Metal Material

金屬材料 Metal Material	線膨脹係數 X10 ^{°C}	縱彈性係數 Gpa	硬度 HV	比透磁率	耐腐蝕性
軸承鋼SUJ2	12.5	208	700~800	強磁性	X
不鏽鋼SUS440C	10.1	200	670	1.04以下	△
不鏽鋼 SUS304C	16.3	193	160	1.04以下	○
不鏽鋼SUS316	16	193	220	1.04以下	○
不鏽鋼SUS630	10.8	200	290~380	強磁性	○

陶瓷材料的特性 Property of Ceramic Material

特 性 Property	單位Unit	軸承鋼SUJ2	氧化鋁Al ₂ O ₃	氧化鋯 ZrO ₂	氮化矽Si ₃ N ₄	碳化矽SiC
密 度 Density	g/cm ³	7.6	3.93	6	3.2	3.15
硬 度 Hardness	HV	700~800	1500~1650	1100~1300	1400~1700	2000~2500
抗彎強度 Bending Strength	Mpa	2400	300~600	1000~1500	600~1000	450~800
斷裂韌性 Fracture Toughness	Mpa • m ^{1/2}	15	3.5	11	7	4~5
熱膨脹係數 Coff. of Thermal Expansion	X10 ⁻⁶ °K	12.5	8	10.5	3.2	4.3
熱傳導 Thermal conductivity	W/M,K	30~40	20~30	3	30	60
耐溫性 Temp. Resistance	°C	180	1700	1000	1500	2000
磁 性 Magnetism	-	YES	No	No	No	No
耐腐蝕性 Anti-Corrosion	-	Poor	Good	Good	Good	Excellent

工程塑膠的特性 Property of Engineering Plastic

材 料 Material	單 位 Unit	PP	PE	PTFE	POM	PPS	PEEK
密 度 Density	g/cm ³	0.91	0.94	2.18	1.41	1.35	1.32
硬 度 Hardness	Rockwell	70~75	65~70	55	80	84	90
最高使用溫度 Max. Operation Temperature	°C	90	80	200	100	230	260
線膨脹係數 Coff. of Linear Expansion	X10 ⁻⁵ / K	17	20	12	10	5	5
摩擦係數 Coff. of Friction (μ)	ρ=0.05N/mm ² v=0.6m/s	0.3	0.29	0.1	0.32	-	0.3
耐腐蝕性 Anti-Corrosion	-	○	○	◎	△	○	◎

※ 以上資料僅供參考
Above data is for reference only.

◎: Excellent ○: Good △: Application Limited

金屬滾珠軸承規範說明

Metal Ball Bearing Specification

滾珠軸承精度等級 Tolerance Classes

ISO492	Normal	Class 6	Class 5	Class 4	Class 2
JIS	CLASS 0	Class 6	Class 5	Class 4	Class 2
DIN	P0	P6	P5	P4	P2
AFBN	ABEC-1	ABEC-3	ABEC-5	ABEC-7	ABEC-9

滾珠軸承內環尺寸 Inner Ring Tolerance

內徑		內徑平均公差 Δ dmp, μm									
d, mm		Normal		Class 6		Class 5		Class 4		Class 2	
Over	To	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
2.5	10	0	-8	0	-7	0	-5	0	-4	0	-2.5
10	18	0	-8	0	-7	0	-5	0	-4	0	-2.5
18	30	0	-10	0	-7	0	-6	0	-5	0	-2.5
30	50	0	-12	0	-10	0	-8	0	-6	0	-2.5

滾珠軸承外環尺寸 Outer Ring Tolerance

外徑		外徑平均公差 Δ Dmp, μm									
D, mm		Normal		Class 6		Class 5		Class 4		Class 2	
Over	To	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
6	18	0	-8	0	-7	0	-5	0	-4	0	-2.5
18	30	0	-9	0	-8	0	-6	0	-5	0	-4
30	50	0	-11	0	-9	0	-7	0	-6	0	-4
50	80	0	-13	0	-11	0	-9	0	-7	0	-4

軸承游隙說明 Ball Bearing Internal Clearance

徑向游隙 Radial Internal Clearance

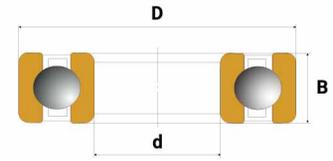
Unit: μm

Bore dia. d, mm		C2		Cn		C3		C4		C5	
Over	To	Min.	Max.								
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73

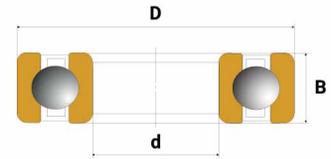
※ 以上資料為金屬滾珠軸承規範參考表
Above information is the metal ball bearing specification for reference.

軸承規格尺寸

Ceramic Bearing Size



Bearing No	Dimension, mm			CF series	SC Series	PK series	SHB series	SS Series
	d(内徑)	D(外徑)	B(厚度)					
684	4	9	4					
694	4	11	4					
604	4	12	4					
624	4	13	5					
634	4	16	5	○				
685	5	11	5					
695	5	13	4			●		
605	5	14	5	●		●		
625	5	16	5	○		●		
635	5	19	6	●		●		
686	6	13	3.5 / 5	○				
696	6	15	5					
606	6	17	6	●		●		
626	6	19	6	●				
636	6	22	7					
687	7	14	5					
697	7	17	5					
607	7	19	6	○		○		
627	7	22	7					
637	7	26	9					
688	8	16	5				○	
698	8	19	6	●				
608	8	22	7	●	○	●	●	
628	8	24	8	●				
638	8	28	9					
689	9	17	5	●			○	
699	9	20	6				○	●
609	9	24	7	●				
629	9	26	8	●				
639	9	30	10					
R6	9.525	22.225	7.142	●	○		○	
6800	10	19	5	●		●	●	
6900	10	22	6	●		●	●	●
6000	10	26	8	●	●	●	●	●
6200	10	30	9	●	○	●	○	
6801	12	21	5	●		●	●	
6901	12	24	6	●		●	○	●
6001	12	28	8	●	●	●	●	●
6201	12	32	10	●		●	●	



Bearing No	Dimension, mm			CF series	SC Series	PK series	SHB series	SS Series
	d(内径)	D(外径)	B(厚度)					
6802	15	24	5	●		●		●
6902	15	28	7	●		●		●
6002	15	32	9	●	●	●	●	●
6202	15	35	11	●		●		
6803	17	26	5	●				
6903	17	30	7	●		●		●
6003	17	35	10	●	●	●	●	●
6203	17	40	12	●				
6804	20	32	7	●		●		●
6904	20	37	9	●		●	●	●
6004	20	42	12	●	●	●	●	●
6204	20	47	14	●		●	●	●
6805	25	37	7	●			○	●
6905	25	42	9	●		●		
6005	25	47	12	●	●	●	●	
6205	25	52	15	●		●		
6806	30	42	7			●		
6906	30	47	9			●		
6006	30	55	13	●	●	●	●	
6206	30	62	16	●				
6908	40	62	12	○		●		
6008	40	68	15	●		●		
6208	40	80	18					
6009	45	75	16	●				
7000	10	26	8	●		●		
7001	12	28	8	○				
7002	15	32	9	●				
7003	17	35	10	○				
7904	20	37	9	●		●		
7004	20	42	12	●		●		
7005	25	47	12	●				
7008	40	68	15	○				
1200	10	30	9	●				
1201	12	32	10	●				
1202	15	35	11	●				
1203	17	40	12	●				
1204	20	47	14	●				
1205	25	52	15	●				
2205	25	52	18	●				

●: 兩周內交期

○: 4~6 WEEKS 交期

空格: 討論後生產

●: Delivery within two weeks

○: Delivery around 4~6 weeks

Blank Spce : Suggest discuss with us

陶瓷球規格尺寸

Ceramic Ball Size & Stock

Ball Dimension		Si ₃ N ₄ 氮化矽	ZrO ₂ 氧化鋯	Al ₂ O ₃ 氧化鋁	SiC 碳化矽
mm	Inch				
Φ0.800		•	•		
Φ1.000		•	•	•	•
Φ2.000		•	•	•	•
Φ2.381	3/32	•	•	•	•
Φ2.500		•	•	•	•
Φ2.778	7/64	•	•	•	•
Φ3.000		•	•	•	•
Φ3.175	1/8	•	•	•	•
Φ3.500		•	•	•	•
Φ3.969	5/32	•	•	•	•
Φ4.000		•	•	•	•
Φ4.500		•	•	•	•
Φ4.763	3/16	•	•	•	•
Φ5.000		•	•	•	•
Φ5.556	7/32	•	•	•	•
Φ5.953	15/64	•	•	•	•
Φ6.000		•	•	•	•
Φ6.350	1/4	•	•	•	•
Φ6.747	17/64	•	•	•	•
Φ7.000		•	•	•	•
Φ7.144	9/32	•	•	•	•
Φ7.500		•	•	•	•
Φ7.938	5/16	•	•	•	•
Φ7.980		•	•	•	•
Φ8.000		•	•	•	•
Φ8.500		•	•	•	•
Φ8.731	11/32	•	•	•	•
Φ9.000		•	•	•	•
Φ9.525	3/8	•	•	•	•
Φ10.000		•	•	•	•
Φ12.000		•	•	•	•
Φ19.050		•	•	•	•
Φ25.400		•	•	•	
Φ50.800		•		•	
Φ76.200		•			

- : 表示備有庫存項目, 若沒有庫存項目交期約30天
- : Stock items. Other non-stock items delivery within 30 days.

我們也提供小於 1mm 及大於 10mm 的陶瓷球
Other Ball size less than 1mm, or over 10mm also available.