

کاتالوگ سفارشی گیربکس هارمونیک



گروه مهندسی بازرگانی سی ان سی پارت

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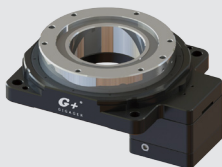
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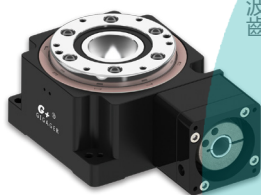
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نشانی: تهران - خیابان سعدی جنوبی - چهارراه اکباتان ناظم الاطبا شمالی - پلاک ۱۶۷

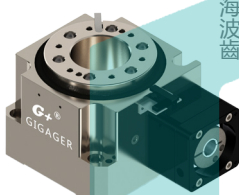


中空旋轉平臺

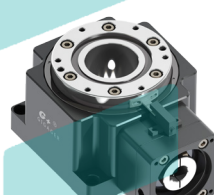
中空結構的減速傳動機構，搭配控制系統可應用於高精度定位、多工位分割、間歇旋轉運動的場合，獨有的中空結構設計使得配線、配管更加方便簡潔。內部採用了交叉滾子軸承的旋轉平臺，可倒裝、側裝。



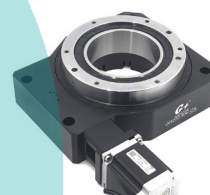
GSHR100 海波齒經濟適用型



GSH 系列海波齒旋轉平臺



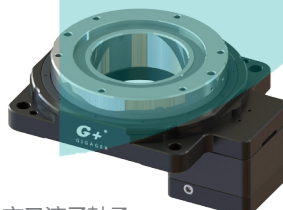
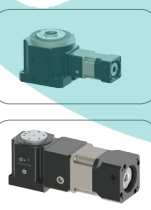
GSR 系列旋轉平臺



GR 系列渦輪電動轉臺



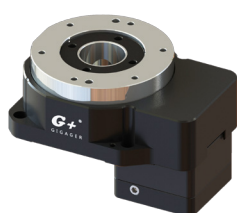
GSA 系列 | 標準型 / 行星式



交叉滾子軸承



GSA 系列 | 標準型 / 行星式 / 直角式 / 行星式 / 搭配閉環馬達 / 搭配閉環馬達



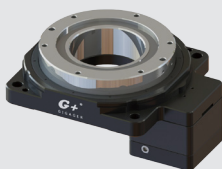
GSB 系列 | 標準型 / 直角式 / 行星式 / 搭配閉環馬達



GSG 系列 | 行星式 / 直角式 (轉角方向可選)



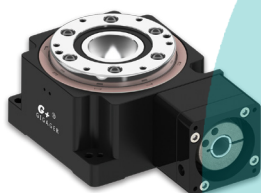
交叉滾子軸承
二級減速一體式



Hollow Rotary Table

The hollow structure of the speed reduction transmission mechanism, which with the control system, is widely used in high-precision positioning, multi-station division, and intermittent rotating operation. The unique hollow structure design makes wiring and piping more convenient and concise. The cross roller bearings of the rotary tables are used internally, which allows horizontal, suspension, and side installation.

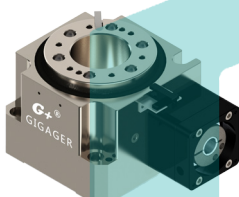
Economical



Cross Roller Bearing Hypoid Gear

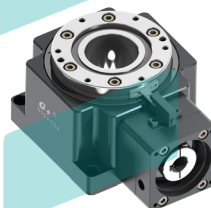
GSHR Series
Hypoid Gear Rotary Table

Hypoid Gear



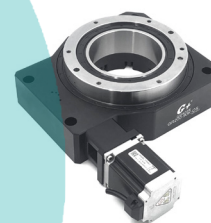
GSH Series
Hypoid Gear Rotary Table

Cross Roller Bearing



GSR Series
Hollow Rotary Table

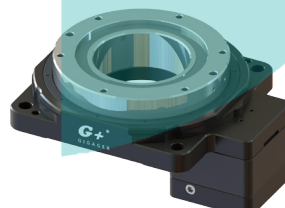
Worm Gear



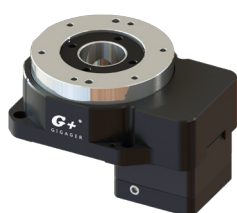
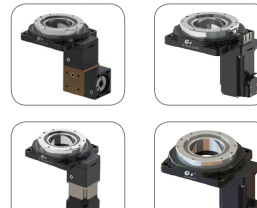
GR Series
Worm Electric Rotary Table



GSA Series | Standard / Planetary



GSN Series | Standard / Right Angle / Planetary / Open Loop / Close Loop



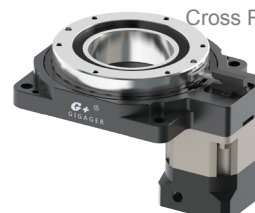
GSB Series | Standard / Right Angle / Planetary / Open Loop

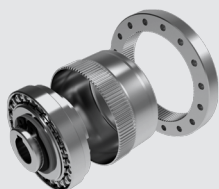


Two Stage Speed Reduction Integrated Design
Cross Roller Bearing



GSG Series | Planetary / Right Angle (Angle Direction Optional)





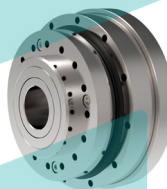
諧波減速器 / 一體式伺服關節模組 Harmonic Drive Integrated Servo Joint Module



GHS 系列一體型
GHS Series /Integrated



GHS 系列調心型
GHS Series /Self-aligning



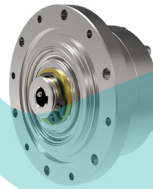
GHS 系列中空型
GHS Series /Hollow



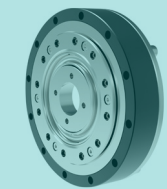
GHS 系列軸輸入型
GHS Series /Shaft Input



GHC 系列一體式
GHC Series /Integrated



GHC 系列調心型
GHC Series /Self-aligning



GHD 系列短杯型
GHD Series /Short Cup



GHT 系列短杯型
GHT Series /Short Cup



為更好的服務于人形機器人、協作機器人、AGV 機器人等行業，吉嘉將高性能諧波減速器、雙絕對值多圈編碼器、摩擦式制動器以及高性能無框力矩電機進行組合設計，開發了這款一體式伺服關節模組，在嚴苛的生產制程以及專業的裝配技術管控下，此款伺服關節產品的重複精度、穩定性、跟隨性等核心參數都得到了有力的保障。

To better serve industries such as humanoid robots, collaborative robots, and AGVs, GIGA has adopted an integrated design by combining high-performance harmonic drives, dual-absolute multi-turn encoders, friction brakes, and high-performance frameless torque motors. Through rigorous manufacturing processes and precision-controlled assembly techniques, this product certified exceptional performance in repeatability, stability, and tracking performance.



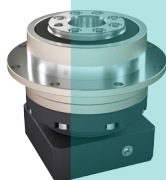
行星減速器 Planetary Gearbox

廣泛通用型減速器，具有結構尺寸小、輸出扭矩大、速比大、效率高、性能安全可靠等特點。

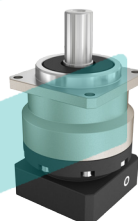
A widely-used speed reducer with the advantages of small size, high output torque, large gear ratio, high efficiency, safety and reliability.



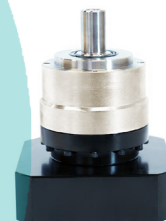
GPB Series



GPD Series



GPV Series



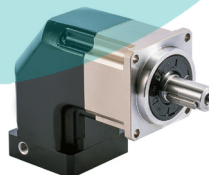
GPE Series



GPF Series



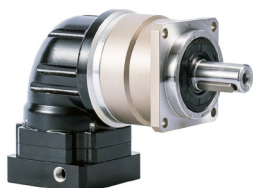
GPL Series



GPBR Series



GPDR Series



GPVR Series



GPER Series



GPFR Series



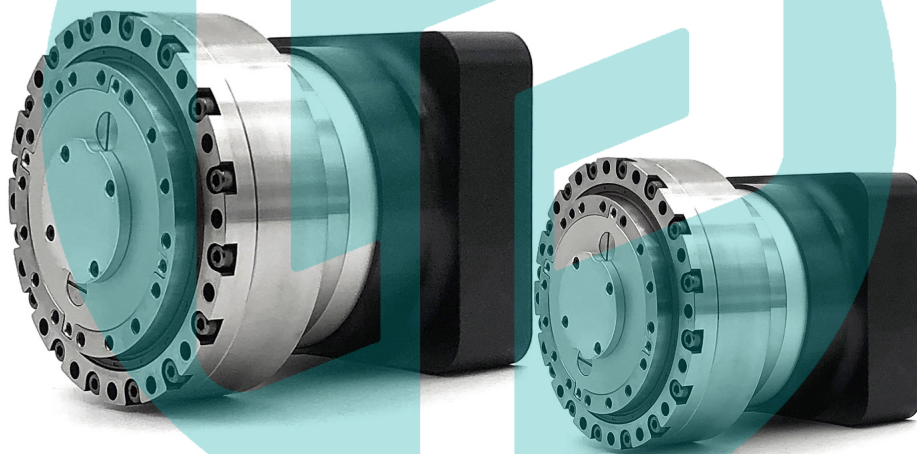
GPLR Series

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GSE 系列高精密旋轉平臺 GSE High Precision Rotary Table



高精密旋轉平臺通過獨有的雙內齒圈少齒差結構實現大減速比與高精度嚙合，變位行星架系統可在消除齒隙的同時延長精度壽命。

The high-precision rotary platform achieves a large reduction ratio and high-precision meshing through a unique double inner gear ring and the small tooth difference structure. The deflection planetary carrier system can extend the precision life while eliminating the backlash.

大減速比

結構緊湊，通過雙內齒圈少齒差結構實現兩級大減速比。

Large Reduction Ratio

Compacted structure, through a double inner gear ring and the small tooth difference design, achieving two-stage large reduction ratios.

精度壽命高

定位精度可達 10 角秒，在傳統行星減速器的基礎上融合了剛性錐套軸向調節機構，構成變位行星架系統，抑制齒隙的同時，提高了旋轉平臺的精度壽命。

High Precision and Long Lifespan

Positioning accuracy up to 10 arc-sec, by integrating a rigid taper-sleeve axial adjustment mechanism with traditional planetary gear systems to suppress backlash and improve the precision life.

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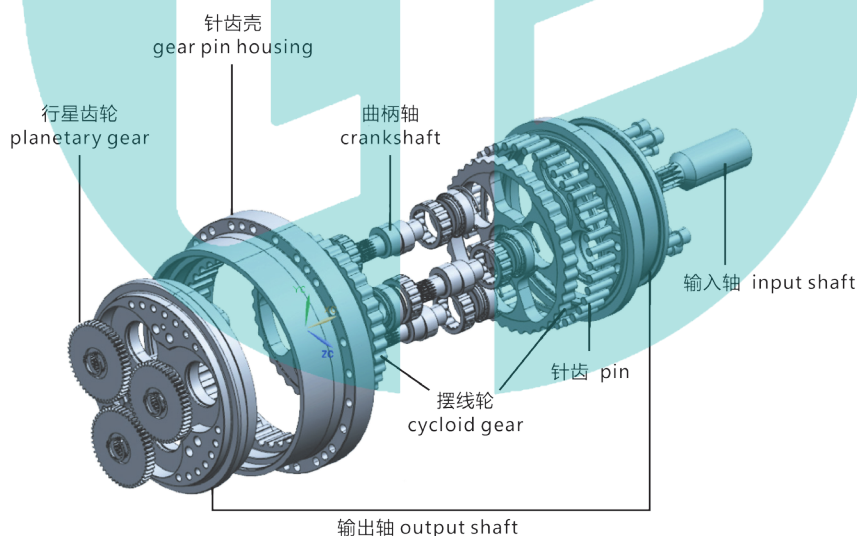


GBX 系列高扭矩旋轉平臺 GBX High Torque Rotary Table

GBX 系列高扭矩旋轉平臺由一個行星齒輪減速機的前級和一個擺線針輪減速機的后級組成，具有結構緊湊、振動小、噪音低、能耗低、傳動比大的特點。

The GBX series high-torque rotary table is composed of a front-stage planetary gear reducer and a rear-stage cycloidal pinwheel reducer. It is characterized by a compact structure, low vibration, low noise, low energy consumption, and a large transmission ratio.

結構 Structure



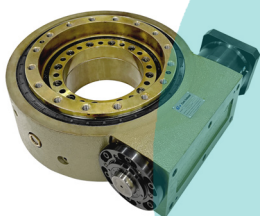
GBX-C 系列 中空型結構
GBX-C Series Hollow Structure

GBX-E 系列 主軸承內置結構
GBX-E Series Main Bearing Internal Structure



GYH 系列中空分度盤 GYH Hollow Indexing Table

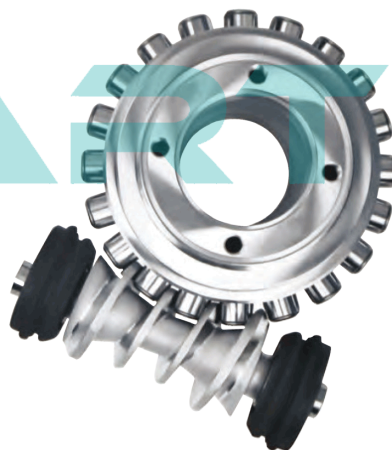
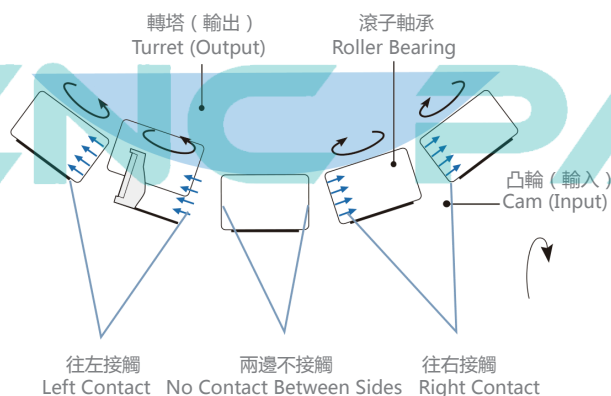
應用弧面分度工作原理，具有低摩擦、無間隙、高剛性的特點。
Designed by arc indexing, with low friction, zero backlash, and high rigidity characteristics.



中空分度盤應用弧面分度原理，實現了精確的運動控制。傳動件由輸入軸（弧面分度輥輪）及滾柱（輸出軸）組成，輸入軸上的輥輪槽表面與滾柱上的從動滾子元件外環表面呈線接觸嚙合，從而驅動轉輪（工作臺）轉動。從動滾子元件在旋轉過程中利用內部滾柱軸承傳遞扭矩，保證了中空分度盤零間隙的性能。優異的工作精度和工作效率有效避免了內部零件的損耗，保障中空分度盤可以持久保持高精度工作狀態。

The GYH series adopts the arc indexing design for precise motion control. The drive element consists of an input shaft (arc indexing roller) and a roller (output shaft). The cam groove surface on the input shaft aligns with the outer ring surface of the driven roller element to drive the table. Torque transfer during rotation is achieved by internal roller bearings, resulting in a hollow indexing table with zero backlash. This design ensures excellent accuracy and efficiency while preventing wear of internal components and ensuring high-accuracy performance over time.

工作原理 Principle



左右兩邊互鎖，確保正反轉零間隙。

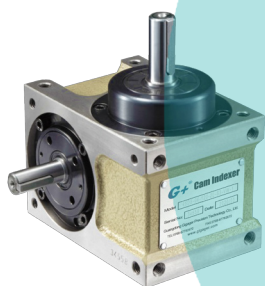
The left and right sides are interlocked to ensure zero backlash between forward and reverse.



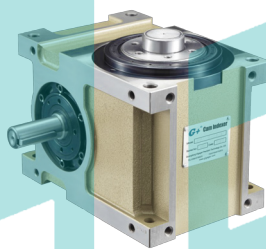
間歇凸輪分割器 / CNC 四軸 / 五軸 Cam Indexer / CNC 4-Axis / 5-Axis

凸輪分割器是實現間歇運動的機構，具有分度精度高、傳遞扭矩大、結構緊湊、噪音低、性能穩定、壽命長等特點。

The cam indexer is an intermittent motion mechanism with high torque transmission, high indexing accuracy, smooth running, compact structure, self-locking during positioning, small size, low noise, stable performance and long lifespan, etc.



DS 心軸型
DS Shaft Model



DF 凸緣型
DF Flange Model



DFS 凸緣心軸型
DFS Flange Shaft Model



DT 平臺桌面型
DT Table Model



DA 超薄平臺桌面型
DA Ultrathin Table Model



DSU 凸緣升降型
DSU Flange lifting Model



CNC 四軸
CNC 4-Axis Rotary Table



CNC 五軸
CNC 5-Axis Rotary Table

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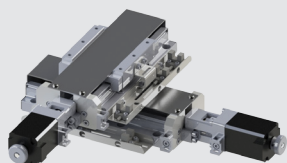


DD 直驅馬達 Direct Drive Motor

DD 馬達技術源於半導體應用，通過豐富的編程功能可實現分度、擺動、連續旋轉等多種動作，無齒式結構較齒輪傳動結構具有更高可靠性，無齒式結構無須擔心齒輪的磨損、損壞，免於維護。

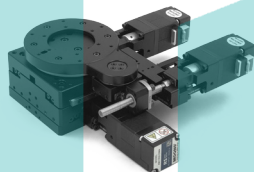
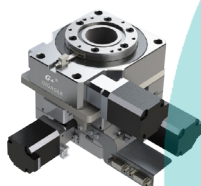
DD motor technology originates from semiconductor applications. It can achieve indexing, swing, continuous rotation, and other actions through programming. No-gear structure has higher reliability than the gear transmission structure. No-gear structure without abrasion and damage, maintenance-free.



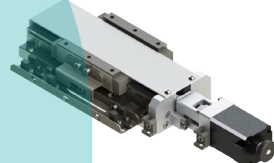
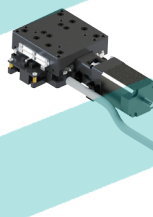


電動滑臺 Electric Slides

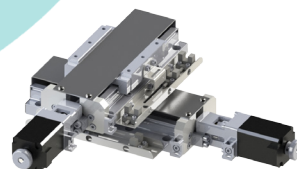
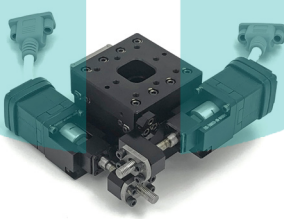
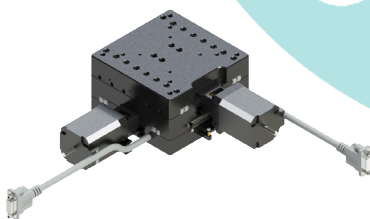
多種結構可供選擇，可實現多點精準定位控制。
Variety of structures for selection, multi-point precise positioning control can be realized.



GXYR 系列 | XYθ 三軸一體式電動滑臺
GXYR Series | XYθ Axes Electric Slide



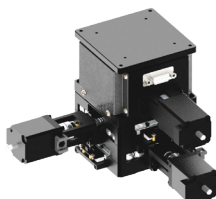
GX 系列 | X 軸電動滑臺
GX Series | X Axis Electric Slide



GXY 系列 | XY 軸電動滑臺
GXY Series | XY Axes Electric Slide



GZ 系列 | Z 軸電動滑臺
GZ Series | Z Axis Electric Slide



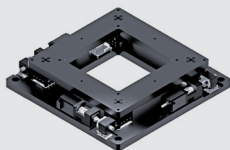
GTXYZ 系列 | 斜楔型 XYZ 軸電動滑臺
GTXYZ Series | XYZ Axes Electric Slide



GTZ 系列 | 斜楔型 Z 軸電動滑臺
GTZ Series | Z Axis Electric Slide

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۰۲۱۳۳۹۸۰۹۳۱-۰۲۱۳۳۵۳۲۱۹۴-۰۲۱۳۶۶۱۹۵۱۰-۰۲۱۳۶۶۱۹۳۹۰-۰۲۱۳۳۹۵۹۰۳۴-۰۲۱۳۳۹۵۹۷۵۶-۰۲۱۳۳۹۵۹۳۲۶

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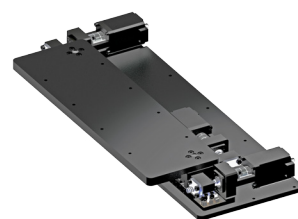
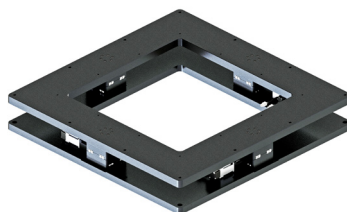
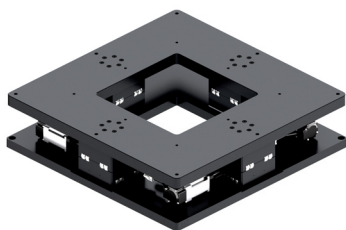
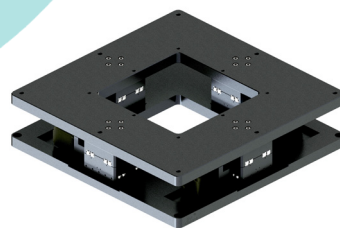
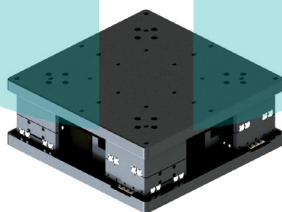
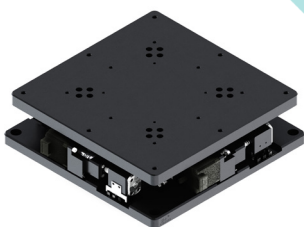
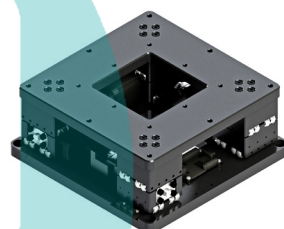
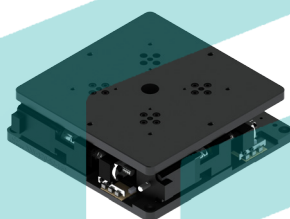
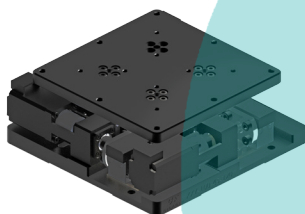


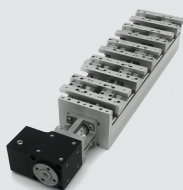
對位平臺

Precision Positioning Table

專為高精度對位設備而設計，多種結構供選擇。

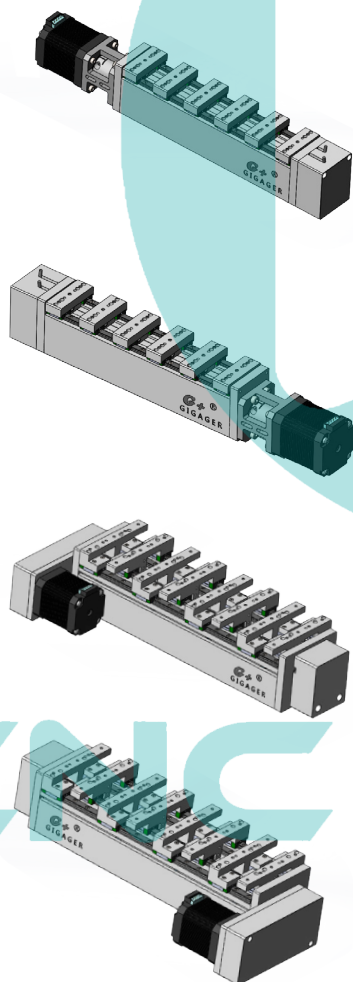
Specially designed for high precision positioning equipment, variety of structures for selection.



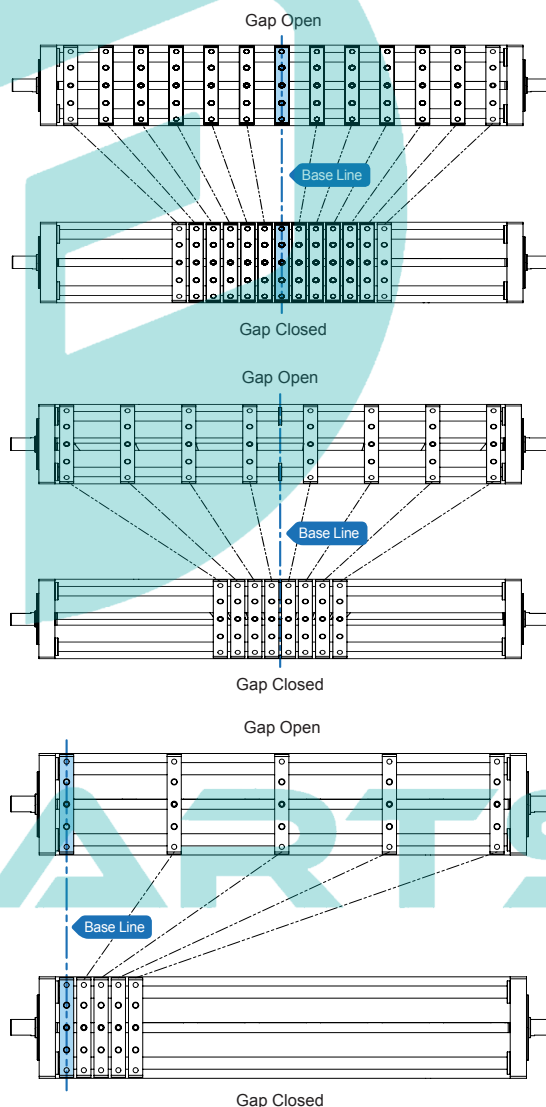


變距滑臺 Pitch Changer

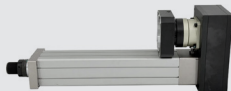
精度高、重量輕、體積小；模塊組多形態聯動實現批量同步作業。
High Precision, light weight, small size, the multi-pattern linkage of the module group can realize batch operations.



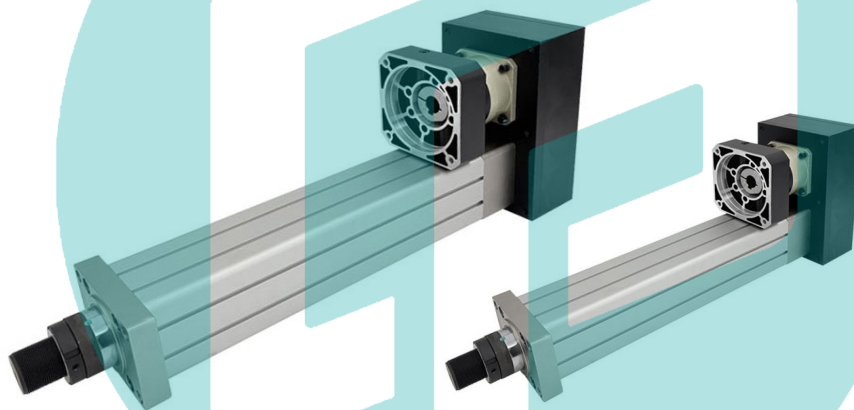
馬達安裝方式多樣化
Variety of installation method of motor



多種變距形式
Variety of way of pitch changer



GDA 系列伺服电动缸 GDA Electric Cylinder



电动缸是将电机的旋转运动通过丝杆和丝杠副的机械运动转换为推杆的直线运动。利用伺服电机的闭环控制特性，可以很便捷地实现对推力、速度和位置的精准控制；利用现代运动控制技术、数控技术及总线（网络）技术，实现程序化、总线（网络）化控制。因其控制精准，易于使用的特性，使气缸和液压缸传动无法实现的精密运动控制得以实现。

The electric cylinder converts the rotary motion of the motor into the linear motion of the push rod via the screw and nut assembly. Leveraging the closed-loop control characteristics of servo motors, conveniently enables precise control of thrust, speed, and position. Utilizing modern motion control technology, CNC technology, and bus (network) technology, allows for programmed and bus (network) control. Due to its ease of control and use, it achieves the precise motion control that cannot be realized by pneumatic and hydraulic cylinder transmissions.

电动缸的特点：

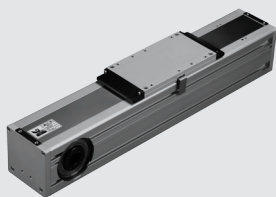
1. 结构紧凑，外形尺寸小，噪音低，寿命长，易安装与维护，多重安全保护措施。
2. 精确的位置控制，重复定位精度可达 0.01mm，增加外部位移传感器精度可达 0.005mm。
3. 精确的速度控制，可以任意设定速度波形，实现高速平稳无冲击运行，控制精度可达 0.05%。
4. 精确的推力控制，增加外部推拉力传感器后控制精度可达 0.5%。
5. 可采用梯形丝杆、滚珠丝杆、行星滚柱丝杆的传动方式。
6. 可采用伺服电机、步进电机、直流电机、交流电机的驱动方式，进行伺服和变频控制。

Features of the Electric Cylinder

1. Compact structure, small overall dimensions, easy installation and use, simple maintenance, low noise, long service life, and multiple safety protection measures.
2. Precise position control, the repeatability can be up to 0.01mm, and can be improved to ± 0.005 mm with the external displacement sensor.
3. Precise speed control, allowing for arbitrary speed profile setting, enabling high-speed, smooth, and shock-free operation, with control accuracy up to 0.05%.
4. Precise thrust control, the control accuracy can be up to 0.5% with an external push/pull force sensor.
5. Various transmission methods: trapezoidal screw, ball screw, or planetary roller screw.
6. Various drive methods: servo motors, stepper motors, DC motors, or AC motors, allowing for servo and variable frequency control.

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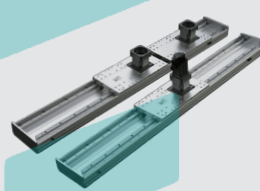


模組 Modules 電缸 Electric Cylinders 直線電機 Linear Motors

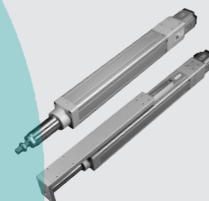
精密直線傳動部件，多種結構與控制模式應對各種應用場合。
Precision linear transmission components, various structures and control modes are suitable for various applications.



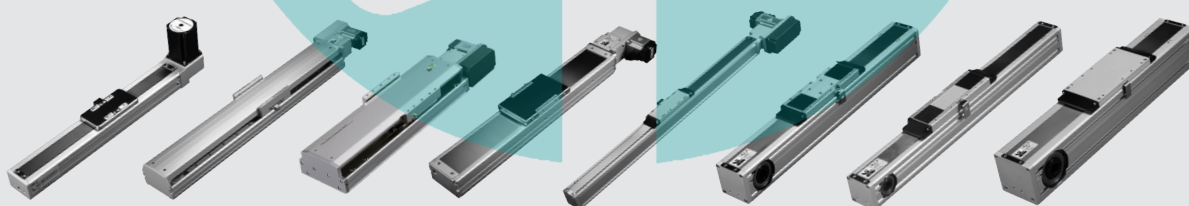
螺桿滑臺系列模組 | 高精度 | 高荷重
Screw Slider Series Module | High Precision | High Load



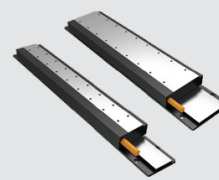
齒輪齒條滑臺
Rack & Pinion Stages



螺桿電缸 Screw Electric Cylinder Series



皮帶滑臺系列模組 | 長行程 | 高速度
Screw Slider Series Module | Long Stroke | High Speed



直線電機產品 Linear Motor Products



振動盤 Vibratory Bowl Feeder

振動盤可將各種物料進行有序地排列，是一種輔助工業自動化機械的送料設備，亦可用於物料的分選、檢測和計數。廣泛應用於電子、五金、塑膠、電池、食品、醫療器械、玩具、文具、日用品等製造行業。

This is a feed device that assists industrial automation machinery. It can make the material run orderly and be used for material sorting, inspection and counting. Widely used in electronics, hardware, plastic, batteries, food, medical instruments, toys, stationery daily, and other manufacturing Industries.



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