

公司簡介

晟進科技股份有限公司是以工具機高精密夾具運用為主導產品的創新研發製造商。自 2004 年從製造 3C 模具轉型製造工具機高精密夾具為主。我們擁有 20 年以上專業工具機夾治具整合的經歷，及堅強的研發與生產能力，並獲得 80 項以上之國內外專利認證。

我們生產並研發領先市場趨勢的產品，以工具機高精密夾具為中心的各類放電機、銑床與車床用高精密夾頭(重複定位精度 $2\mu m$)，並與世界領導品牌並列。

主要產品包括零點定位夾頭、手動快速夾頭、氣動夾頭、電極庫、電極座、放電機校正頭、精密校正方規、尋邊器及客製化治具盤。我們致力於高精密加工事業的發展，樹立國際的優秀品牌，以高品質、高效率、高價值的產品行銷全世界。

公司通過 ISO9001 品質認證及榮獲第 21 屆臺灣精品獎、2015 年榮獲第 22 屆中小企業創新研究獎。以臺灣卓越的技術和研發，開發優良的產品，並提供完善的服務贏得客戶的信賴與長期合作。秉持「誠信經營、專業用心、設計精準、服務至上」的企業精神，與廣大客戶真誠合作、共同發展！



CHERNG JIN TECHNOLOGY CO. LTD. is a Taiwanese innovative manufacturer mainly engaging in producing high-precision chucks for Machine Tools. Since 2004, it has shifted the focus on manufacturing 3C moulds to high-precision chucks. With more than twenty-years professional experience in integration of machine fixtures, strong R&D and production capabilities, we have obtained more than 80 patents from domestic and international.

We have dedicated to producing and developing products leading the market trends, especially the high precision chucks (with $2\mu m$ repetition accuracy) for EDM, Milling and Lathe which parallel with leading brands.

Our main products include zero-point chucks, manual quick chucks, pneumatic chucks, automatic electrode changer, electrode holders, EDM adjusting heads, precision measuring calibration, edge finder and customized fixture plates. We devote ourselves to developing global brand and marketing our products worldwide with high quality, efficiency and values.

The strict management cultivates the enterprise spirits of "Uncompromising Integrity, Professional Intentions, Design Precision, Service First". We expect to establish sincere partnerships and achieve mutual development with our esteemed customers!

CGM

晟進科技股份有限公司

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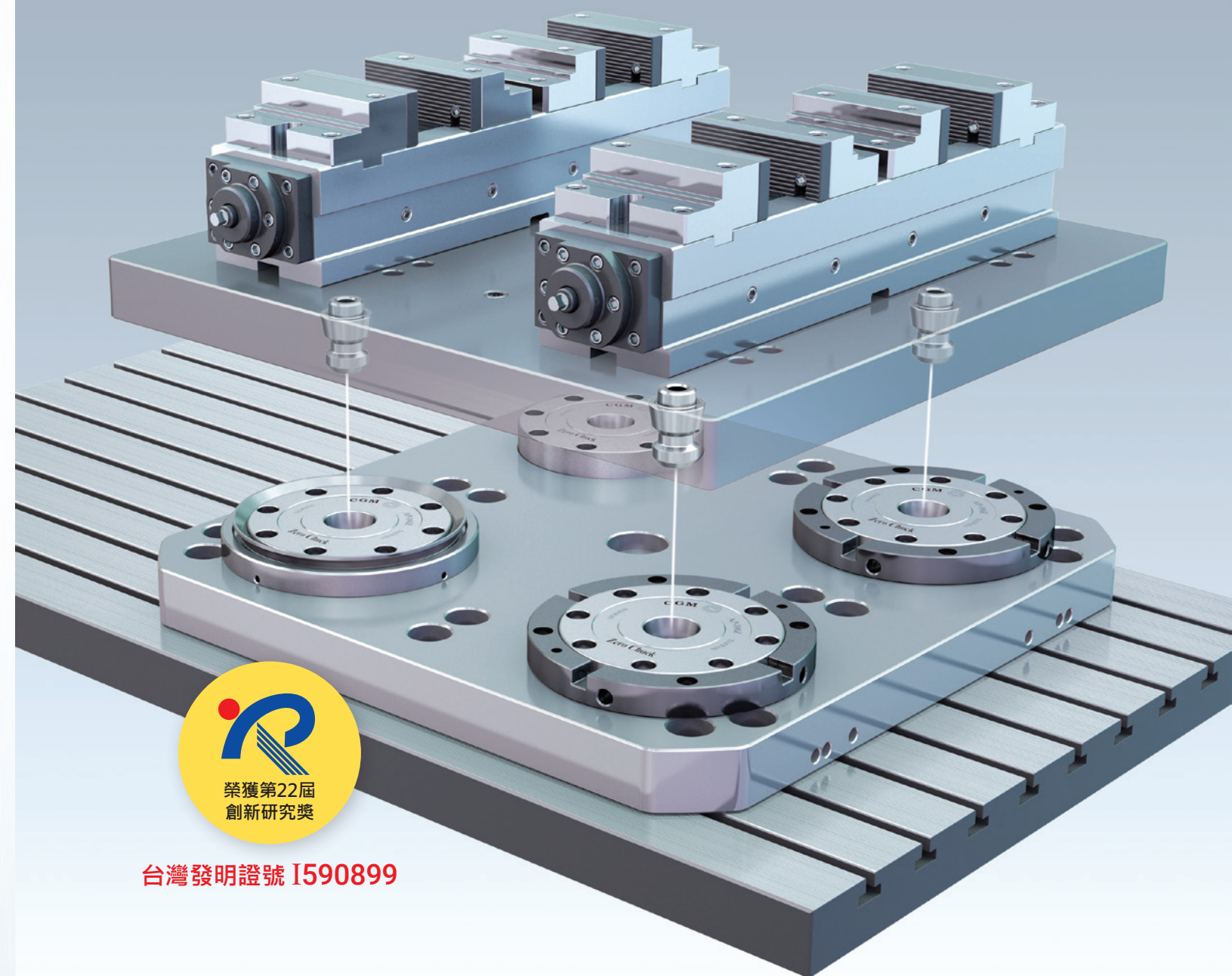


零點定位夾具 ZERO-POINT CHUCK



晟進科技
CHERNG JIN

CNC 快速定位夾持 QUICK POSITIONING & CLAMPING



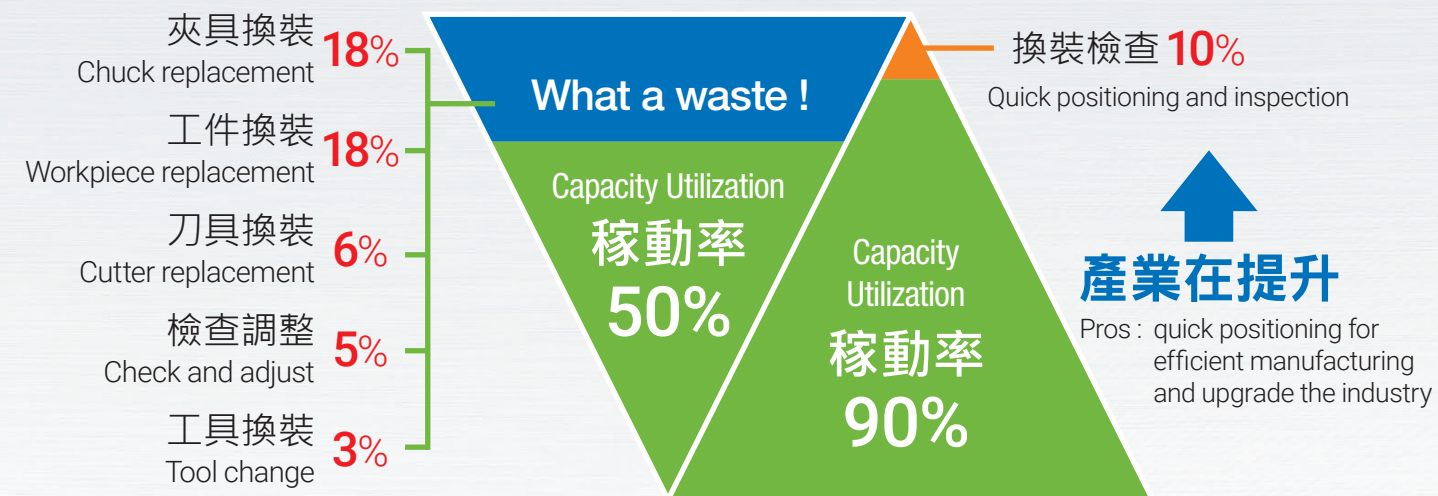
台灣發明證號 I590899



5 μm Repetition Accuracy

還在猶豫嗎？

How to be manufacturing efficiency ?



競爭力在下降

Cons: conventional process is uncompetitive

多年來我們的客戶可證明

CLIENTS TESTIMONIALS

迅速提高生產能力

Enhancing production capacity rapidly

迅速提高製程能力

Enhancing manufacturing process efficiently

迅速提高製品良率

Enhancing production yield rate rapidly

迅速降低換料時間

Enhancing the reduction of loading/unloading time

迅速降低現場人力

Enhancing workforce flexibility

迅速降低換線時間

Enhancing the reduction of changeover time rapidly

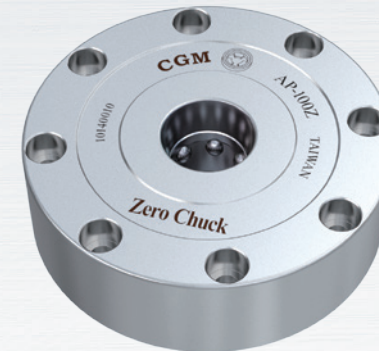


智慧製造 從這裡開始

Smart manufacturing starts from here

零點氣動夾頭結構圖解

Zero-point Chuck Diagram



Taiwan Patent No.: I590899

專利證號 I590899

弧形夾持面

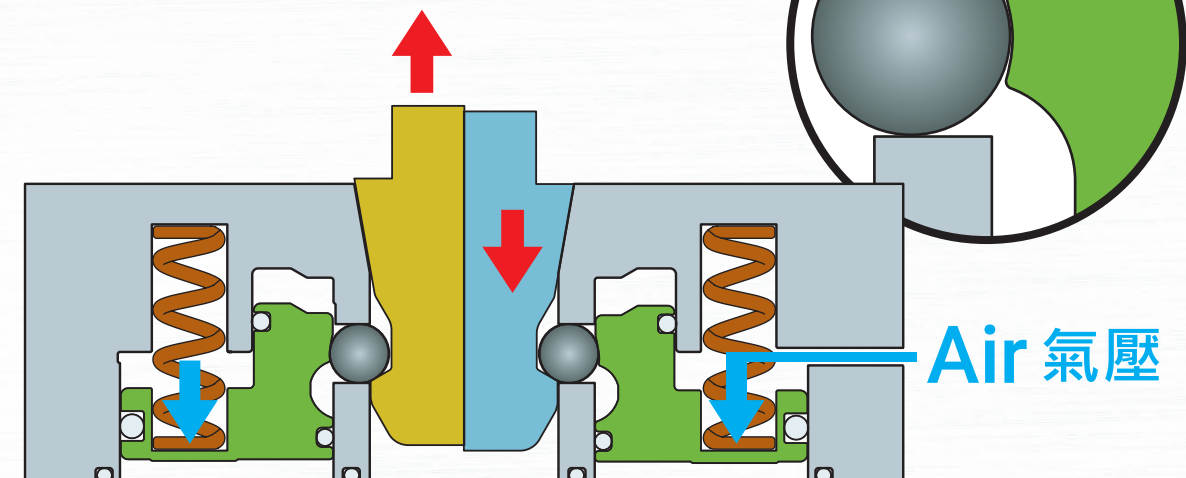
Curve Shape Clamping

- 夾緊機構與鋼珠接觸面為弧形，加大鋼珠接觸面積提高夾持力與壽命。
- 採用不鏽鋼珠可在純水環境工作。
- The curve shape between the clamping mechanism and steel ball, increases the clamping force and life span.
- The stainless steel ball can work under pure water.

極限抗拉力

Max. Clamping Force

- 夾具僅在彈簧緊固下置放，在拉力試驗機上作破壞性檢驗，當外力大於夾緊機構時鋼珠會被卡住，工件不致鬆脫提高安全性。
- When the external force is bigger than of the clamping mechanism, the steel ball will be stuck so the workpiece won't drop off and will make a manufacturing operation safe.



彈簧夾緊拉力

Spring force

- 彈簧施力於夾具機構對拉桿產生向下拉力，當機械失去動力時仍保有一定的緊固力，確保安全。
- The spring exerts force on the clamp mechanism to produce a downward pulling force on the pull rod. When the machine loses power, it still maintains a certain tightening force to ensure safety.

氣壓增壓夾緊拉力

Air pressure boost

- 彈簧力再加上壓縮空氣壓力，對活塞產生倍增拉力，可大幅提升切削性能。
- 夾具也可依需求空壓，改變為油壓驅動，油壓驅動夾頭無倍增鎖緊功能。
- The spring force combines with the compressed air pressure and multiplies the pulling force on the piston, which can greatly improve the cutting performance.
- The stainless steel ball can work under pure water.

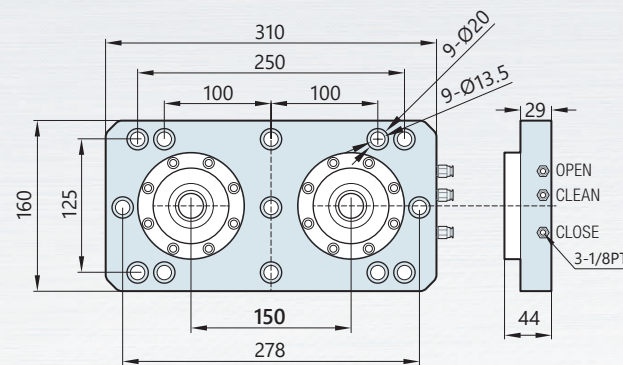
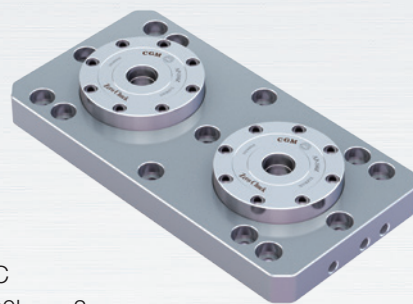
零點氣壓夾頭定位板組

Zero-Point Chuck with Base Plate

Z-150 2夾頭零點定位板組

2 pcs Zero-Point Chuck with base plate

- 供 T 型槽寬 100/125mm 使用
- 鋼製基板 硬度 HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×2
- 彈簧夾持拉力 130kgs×2
- 氣壓 6kg/cm² 增壓拉力 420kgs×2
- 最低供氣壓力 6kg/cm²
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×2
- Spring force 130kgs×2
- Air pressure 6kg/cm² clamping force 420kgs×2
- Min. Air pressure 6kg/cm²

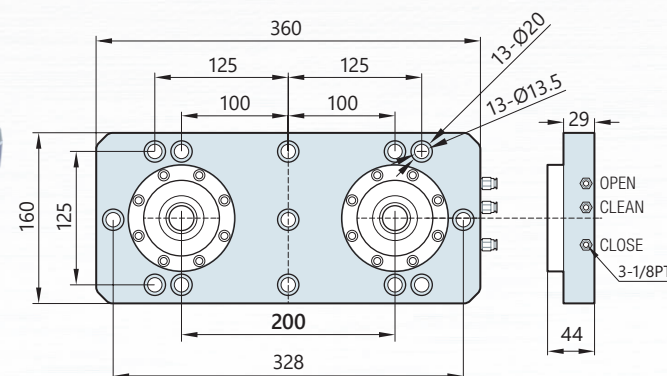
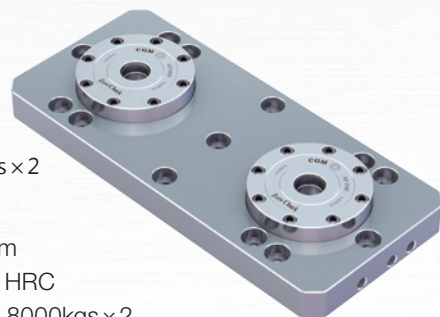


中心孔吹氣功能、規格外可訂製
Center hole with cleaning function, Custom-made spec. is available

Z-200 2夾頭零點定位板組

2 pcs Zero-Point Chuck with base plate

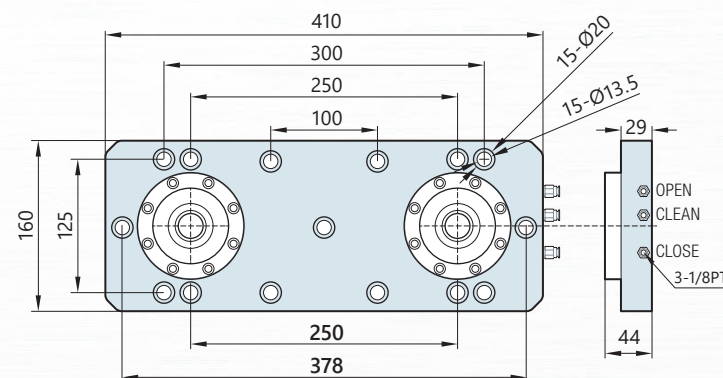
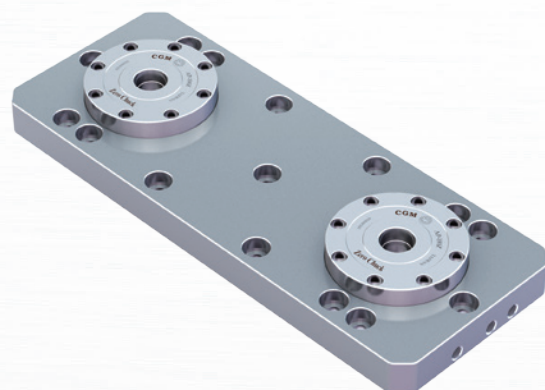
- 供 T 型槽寬 100/125mm 使用
- 鋼製基板 硬度 HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×2
- 彈簧夾持拉力 130kgs×2
- 氣壓 6kg/cm² 增壓拉力 420kgs×2
- 最低供氣壓力 6kg/cm²
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×2
- Spring force 130kgs×2
- Air pressure 6kg/cm² clamping force 420kgs×2
- Min. Air pressure 6kg/cm²



Z-250 2夾頭零點定位板組

2 pcs Zero-Point Chuck with base plate

- 供 T 型槽寬 100/125mm 使用
- 鋼製基板 硬度 HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×2
- 彈簧夾持拉力 130kgs×2
- 氣壓 6kg/cm² 增壓拉力 420kgs×2
- 最低供氣壓力 6kg/cm²
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×2
- Spring force 130kgs×2
- Air pressure 6kg/cm² clamping force 420kgs×2
- Min. Air pressure 6kg/cm²



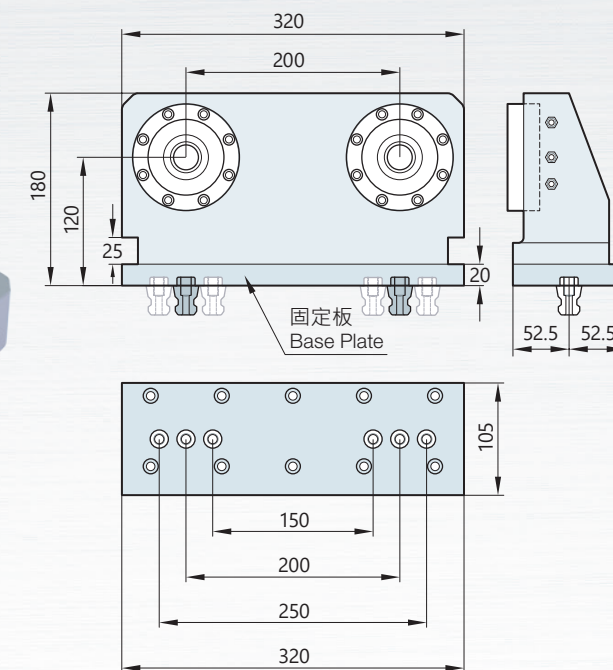
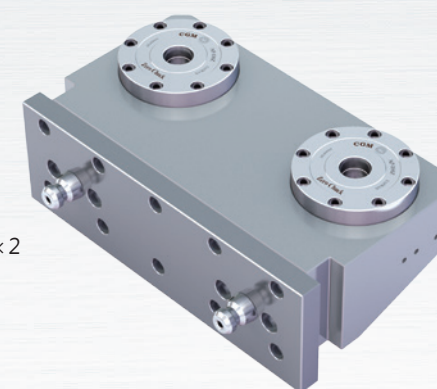
零點氣壓夾頭直角定位板組

Zero-Point Chuck with Vertical Base Plate

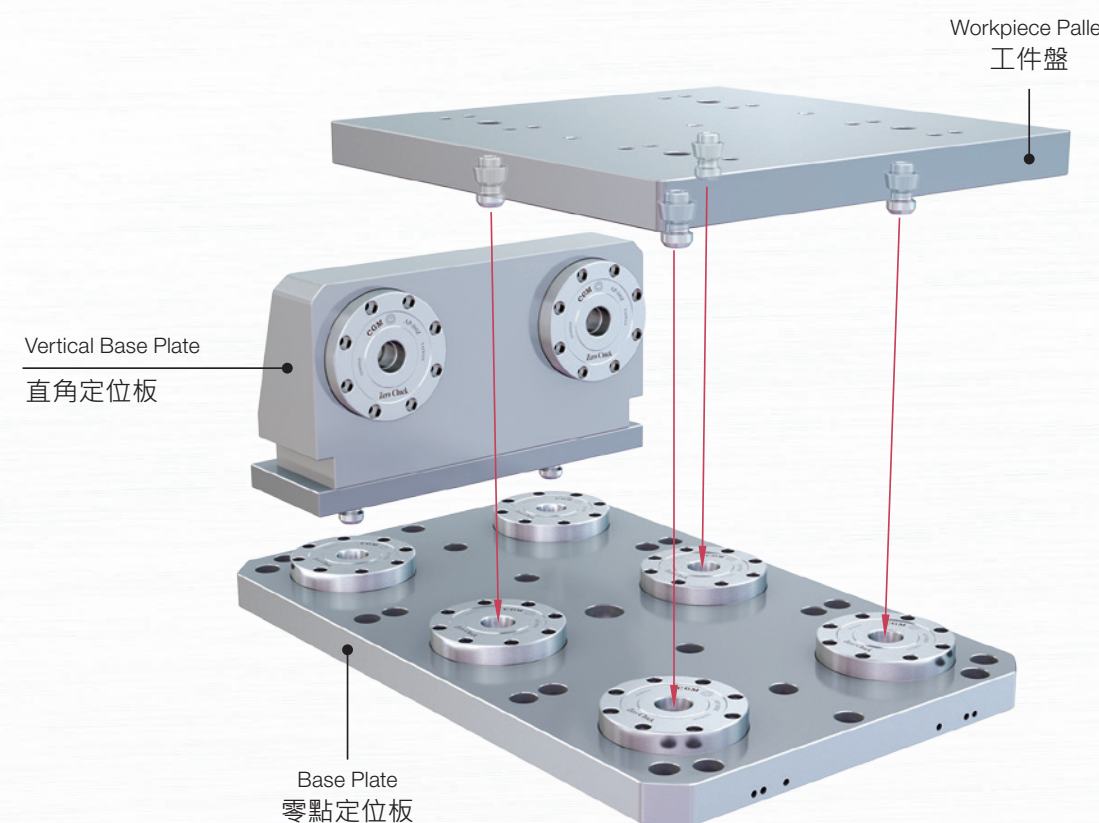
Z-200L 2夾頭直角定位板組

2 pcs Zero-Point Chuck with Vertical Base Plate

- 材質：夾頭座本體高強度鋁合金
- 固定板鋼製 硬度HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×2
- 彈簧夾持拉力 130kgs×2
- 氣壓 6kg/cm² 增壓拉力 420kgs×2
- 最低供氣壓力 6kg/cm²
- 中心孔吹氣功能
- 規格外可訂製



- Material High-strength aluminum alloy for main base of chuck.
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×2
- Spring force 130kgs×2
- Air pressure 6kg/cm² clamping force 420kgs×2
- Min. Air pressure 6kg/cm²
- Center hole with cleaning function
- Custom-made spec. is available



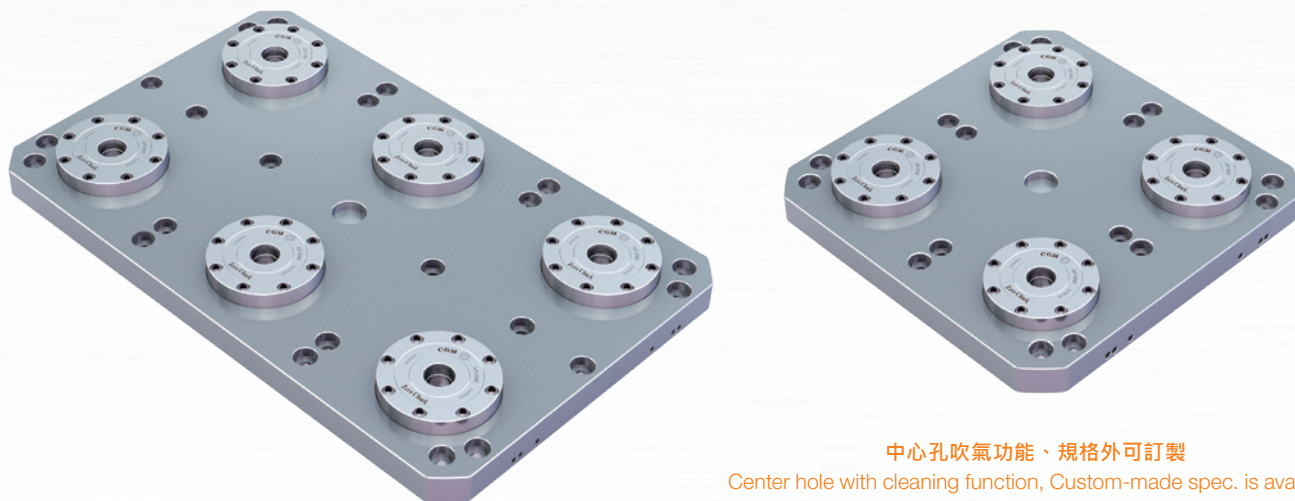
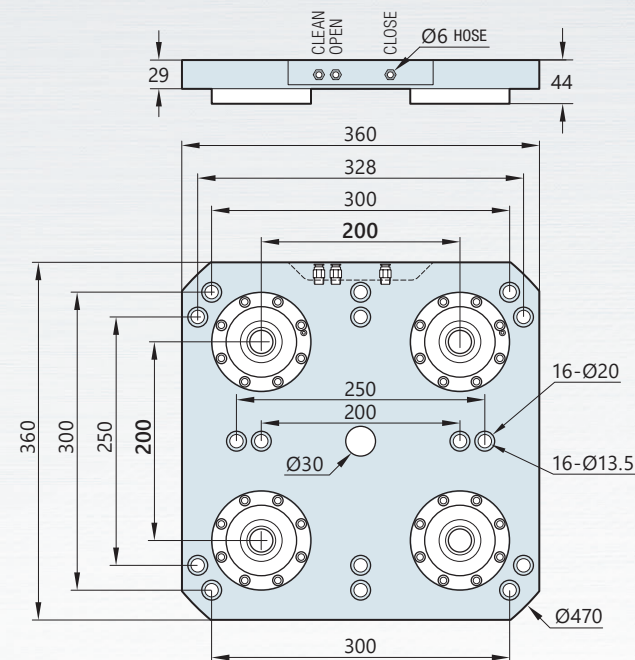
零點氣壓夾頭定位板組

Zero-Point Chuck with Base Plate

Z-42020 4夾頭零點定位板組

4 pcs Zero-Point Chuck with Base Plate

- 供 T 型槽寬 100/125mm 使用
- 鋼製基板 硬度 HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×4
- 彈簧夾持拉力 130kgs×4
- 氣壓 6kg/cm² 增壓拉力 420kgs×4
- 最低供氣壓力 6kg/cm²
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×4
- Spring force 130kgs×4
- Air pressure 6kg/cm² clamping force 420kgs×4
- Min. Air pressure 6kg/cm²

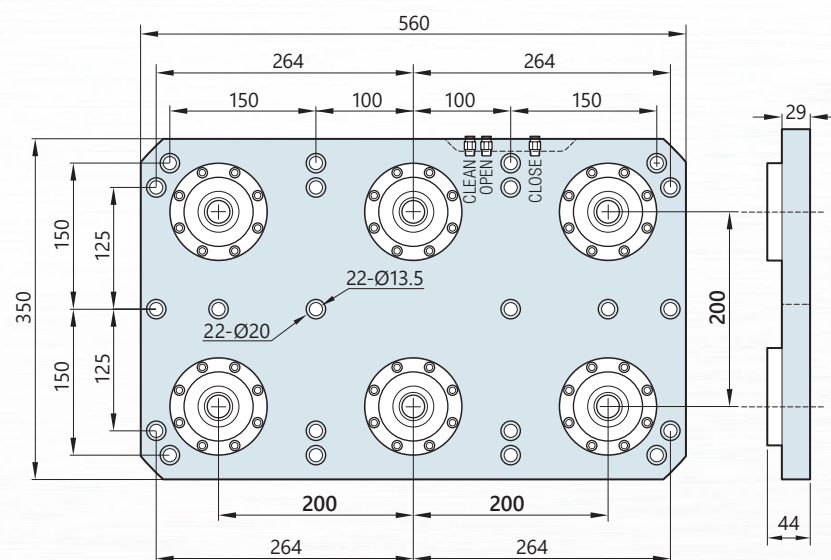


中心孔吹氣功能、規格外可訂製
Center hole with cleaning function, Custom-made spec. is available

Z-62020 6夾頭零點定位板組

6 pcs Zero-Point Chuck with Base Plate

- 供 T 型槽寬 100/125mm 使用
- 鋼製基板 硬度 HRC 28°±3°
- 極限彈簧抗拉力 8000kgs×6
- 彈簧夾持拉力 130kgs×6
- 氣壓 6kg/cm² 增壓拉力 420kgs×6
- 最低供氣壓力 6kg/cm²
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Max. clamping force is up to 8000kgs×6
- Spring force 130kgs×6
- Air pressure 6kg/cm² clamping force 420kgs×6
- Min. Air pressure 6kg/cm²



工件托盤 Workpiece Pallet

P-150~250A 工件托盤

Workpiece Pallet for Zero-Point Chuck

TYPE	A	H	L	W
P-150A	150	30	330	168
P-200A	200	30	380	198
P-250A	250	30	430	198

附拉桿 Standard Accessory

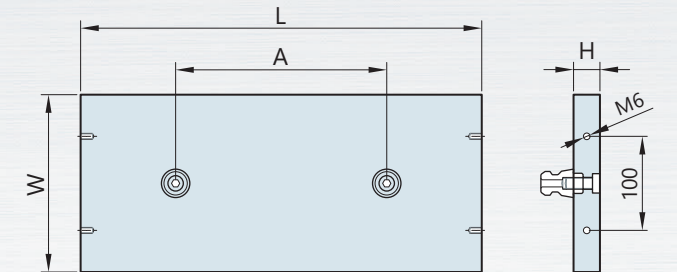
基準拉桿 PZ-24B ×1

定向拉桿 PZ-24L ×1

材質：高強度鋁合金

Material:

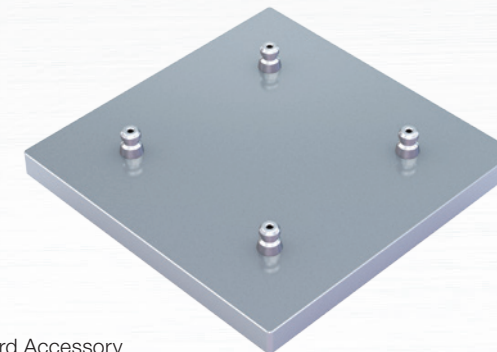
High-strength Aluminum Alloy



可根據您的需求、材質、尺寸、孔/螺牙作加工
Custom-made available. (Incl. material, spec., hole/screw thread)

P-4360A 工件托盤

Workpiece Pallet for Zero-Point Chuck



附拉桿 Standard Accessory

基準拉桿 PZ-24B ×1

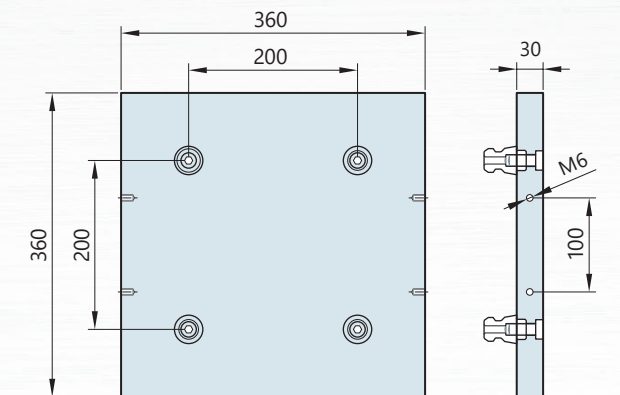
定向拉桿 PZ-24L ×1

夾緊拉桿 PZ-24H ×2

材質：高強度鋁合金

Material:

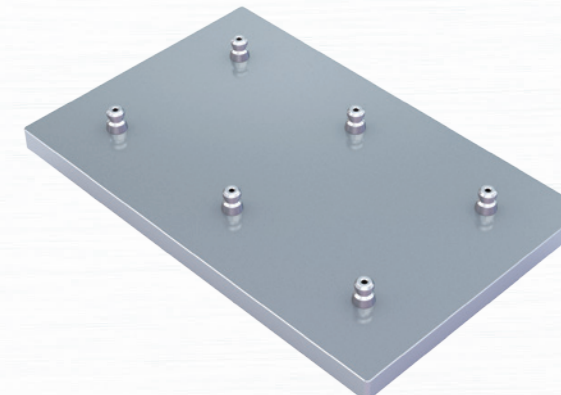
High-strength Aluminum Alloy



可根據您的需求、材質、尺寸、孔/螺牙作加工
Custom-made available. (Incl. material, spec., hole/screw thread)

P-6560A 工件托盤

Workpiece Pallet for Zero-Point Chuck



附拉桿 Standard Accessory

基準拉桿 PZ-24B ×1

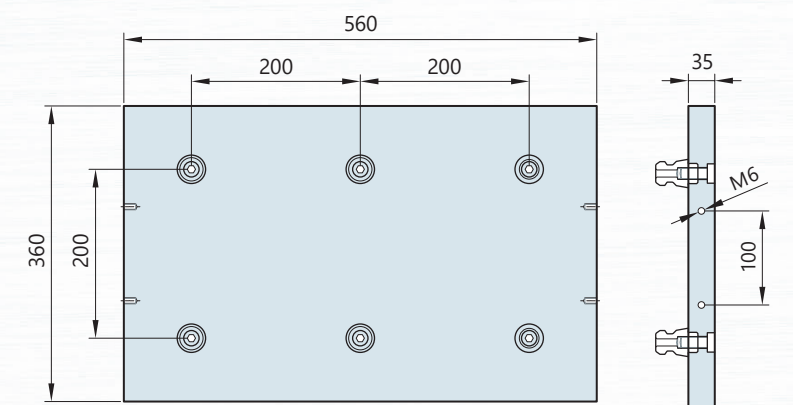
定向拉桿 PZ-24L ×1

夾緊拉桿 PZ-24H ×4

材質：高強度鋁合金

Material:

High-strength Aluminum Alloy



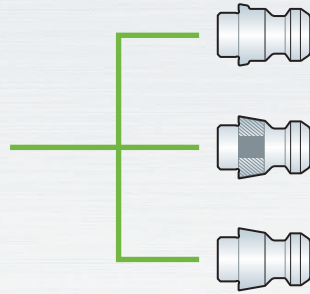
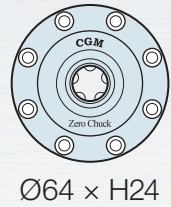
可根據您的需求、材質、尺寸、孔/螺牙作加工
Custom-made available. (Incl. material, spec., hole/screw thread)

零點系列夾具概圖

Drawbar for Zero-Point Chuck

AP-64ZS

零點氣動夾頭
Zero-Point Chuck



PZ-20B

基準拉桿 Centering drawbar

PZ-20L

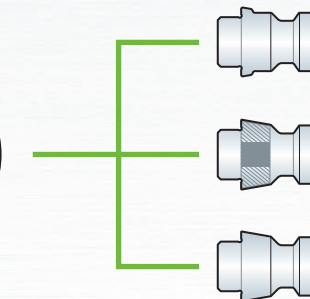
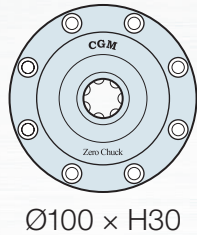
定向拉桿 Compensation drawbar

PZ-20H

夾緊拉桿 Chucking drawbar

AP-100ZS

零點氣動夾頭
Zero-Point Chuck



PZ-24B

基準拉桿 Centering drawbar

PZ-24L

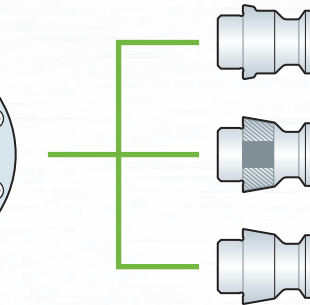
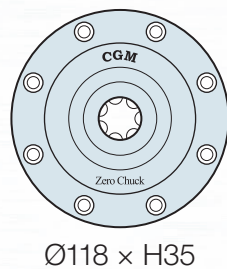
定向拉桿 Compensation drawbar

PZ-24H

夾緊拉桿 Chucking drawbar

AP-118ZS

零點氣動夾頭
Zero-Point Chuck



PZ-30B

基準拉桿 Centering drawbar

PZ-30L

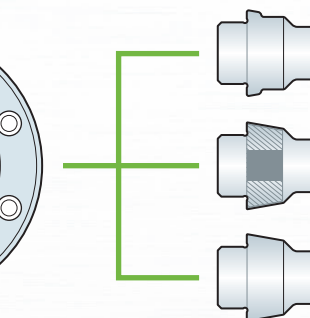
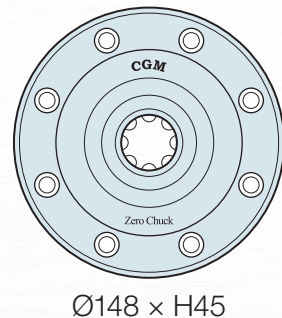
定向拉桿 Compensation drawbar

PZ-30H

夾緊拉桿 Chucking drawbar

AP-148ZS

零點氣動夾頭
Zero-Point Chuck



PZ-38B

基準拉桿 Centering drawbar

PZ-38L

定向拉桿 Compensation drawbar

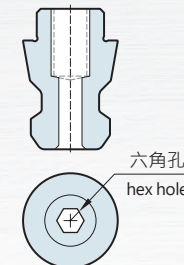
PZ-38H

夾緊拉桿 Chucking drawbar

零點拉桿的使用與安裝

Drawbar for Zero-Point Chuck

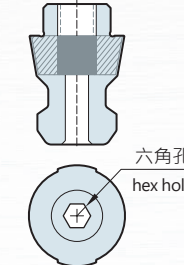
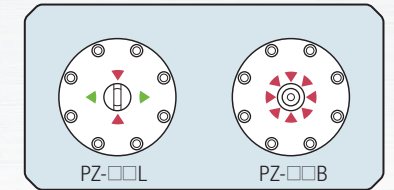
- 三種拉桿的組合運用，托盤。可不受溫度影響位移、加工中心保持不變。
- 零點夾頭和拉桿之間的公差、必需控制在 $\pm 0.01\text{mm}$ 內。
- The combination of these three drawbars can keep the centering point at the same position, and have the pallet out of moving from the effects of thermal expansion and contraction.
- The tolerance between zero-point chuck and drawbars must be controlled within $\pm 0.01\text{mm}$.



PZ-□□B 基準拉桿

Centering drawbar

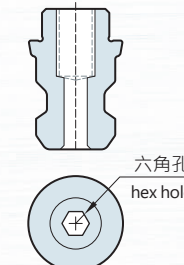
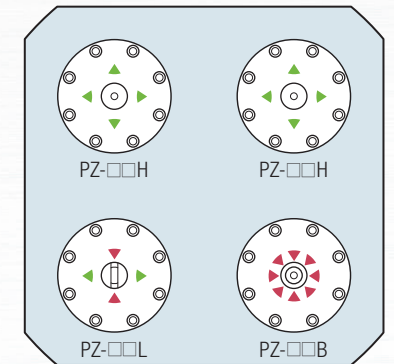
- 主要作用限制 X,Y 軸向不可移動並做為加工基準點。
- It defines the datum point w/o move.
- 材質：高硬度不銹鋼。
- Material : High hardness stainless steel



PZ-□□L 定向拉桿

Compensation drawbar

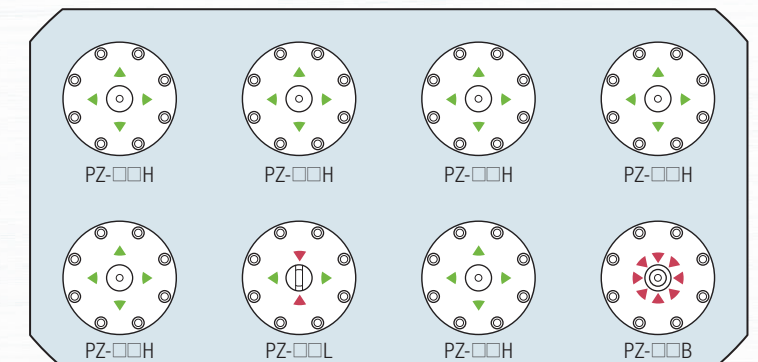
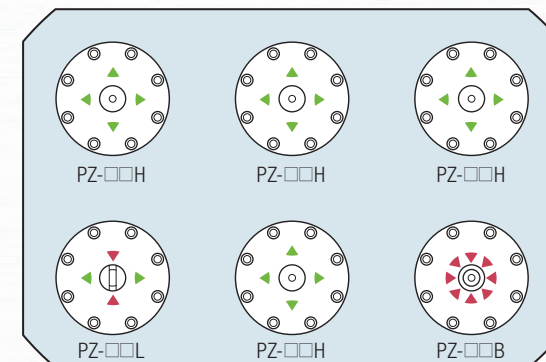
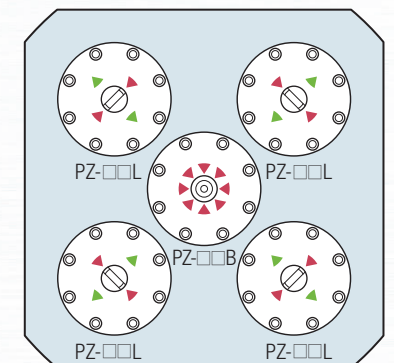
- 主要作用限制單軸向不可移動另一軸向可微量移動。
- It positions the pallet in one axis only and is capable of slightly move for the other axis.
- 材質：高硬度不銹鋼。
- Material : High hardness stainless steel



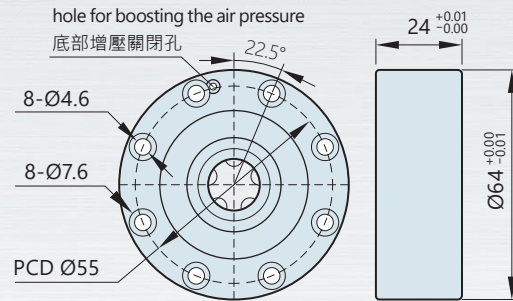
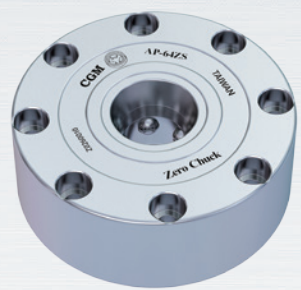
PZ-□□H 夾緊拉桿

Chucking drawbar

- 主要作用Z軸向夾緊 X,Y 軸向可微量移動。
- It mainly clamps toward Z axis and allow the X and Y axis with slightly move.
- 材質：高硬度不銹鋼。
- Material : High hardness stainless steel



AP-64ZS 零點氣動夾頭 Zero-Point Chuck



產品訂購碼
AP-64ZS-□

定位槽數量
空白無定位槽

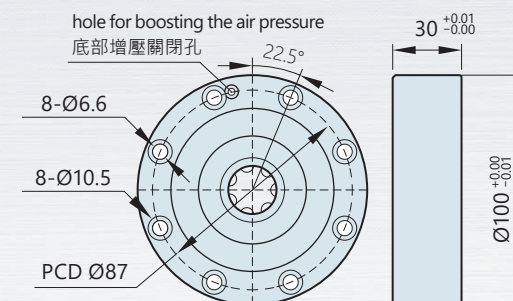
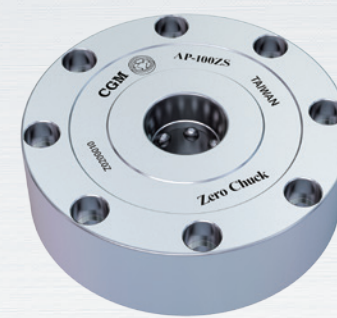
□ Positioning slot q'ty : option (1/2/4/Blank)

- 材質 Material : SUS420, 52 HRC
- 重量 N.W. : 0.5 kgs

- 極限彈簧抗拉力 2200kgs
- 本體、鋼珠、及零件由不銹鋼製成可於水中使用 (彈簧除外)。
- 具中心孔除污吹氣(噴液)功能 (可搭配壓力開關作檢測)。
- 重複定位精度 0.005mm
- 彈簧夾持力 60kgs
- 氣壓 6kg/cm² 增壓拉力 140 kgs
- 最低供氣壓力 6kg/cm²

- Max. clamping force is up to 2200kgs
- Main body, steel ball and components are made of stainless steel which can be used in the water. (excl. Spring)
- Center hole with cleaning and oiling functions (can work with pressure switch for checking)
- Repeat positioning accuracy 0.005mm
- Spring force 60kgs
- Air pressure 6kg/cm² clamping force 140kgs
- Min. Air pressure 6kg/cm²

AP-100ZS 零點氣動夾頭 Zero-Point Chuck



產品訂購碼
AP-100ZS-□

定位槽數量
空白無定位槽

□ Positioning slot q'ty : option (1/2/4/Blank)

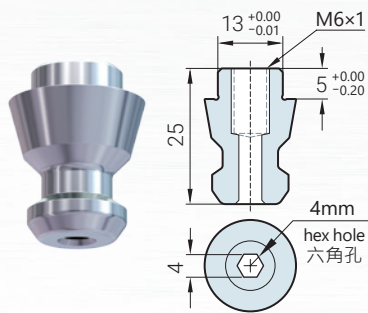
- 材質 Material : SUS420, 52 HRC
- 重量 N.W. : 1.4 kgs

- 極限彈簧抗拉力 8000kgs
- 本體、鋼珠、及零件由不銹鋼製成可於水中使用 (彈簧除外)。
- 具中心孔除污吹氣(噴液)功能 (可搭配壓力開關作檢測)。
- 重複定位精度 0.005mm
- 彈簧夾持力 130kgs
- 氣壓 6kg/cm² 增壓拉力 420 kgs
- 最低供氣壓力 6kg/cm²

- Max. clamping force is up to 8000kgs
- Main body, steel ball and components are made of stainless steel which can be used in the water. (excl. Spring)
- Center hole with cleaning and oiling functions (can work with pressure switch for checking)
- Repeat positioning accuracy 0.005mm
- Spring force 130kgs
- Air pressure 6kg/cm² clamping force 420kgs
- Min. Air pressure 6kg/cm²

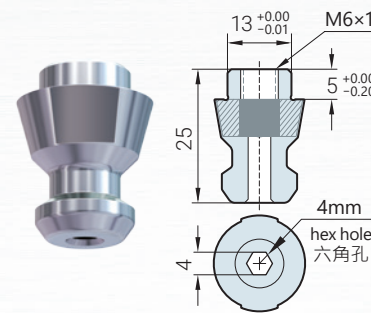
PZ-20B 基準拉桿

Centering drawbar



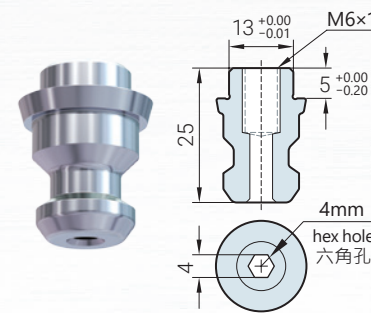
PZ-20L 定向拉桿

Compensation drawbar



PZ-20H 夾緊拉桿

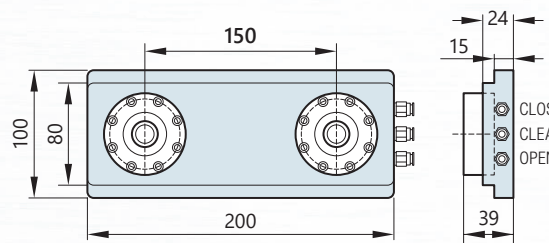
Chucking drawbar



零點氣動夾頭定位板組 Zero-Point Chuck with base plate

Z-150S-64S 2夾頭零點定位板組

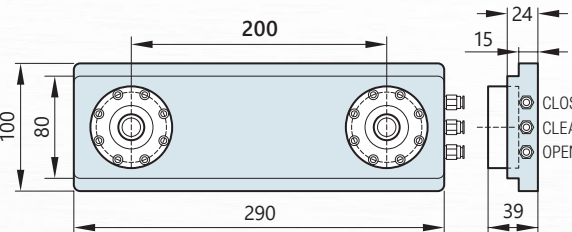
2 pcs Zero-Point Chuck with Base Plate



- 極限抗拉力 2200kgs × 2
- 彈簧夾持力 60kgs × 2
- 增壓鎖緊 140kgs × 2
- Max. clamping force 2200kgs × 2
- Spring force 60kgs × 2
- Air pressure 6kg/cm² clamping force 140kgs × 2

Z-200S-64S 2夾頭零點定位板組

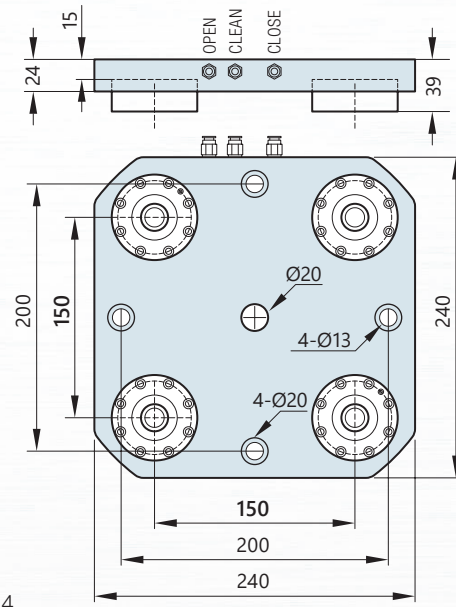
2 pcs Zero-Point Chuck with Base Plate



- 極限抗拉力 2200kgs × 4
- 彈簧夾持力 60kgs × 4
- 增壓鎖緊 140kgs × 4
- Max. clamping force 2200kgs × 4
- Spring force 60kgs × 4
- Air pressure 6kg/cm² clamping force 140kgs × 4

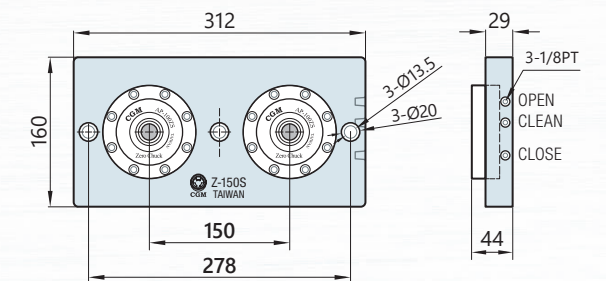
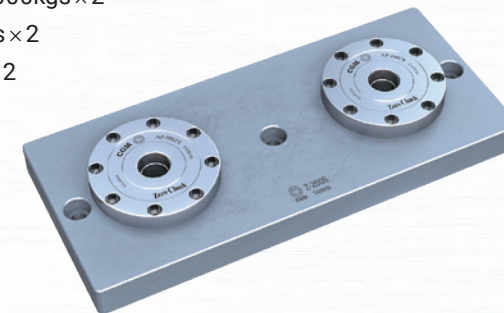
Z-4150S-64S 4夾頭零點定位板組

4 pcs Zero-Point Chuck with Base Plate



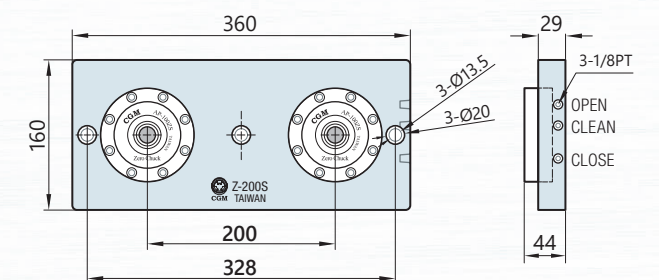
零點氣動夾頭定位板組 Zero-Point Chuck with base plate

- 極限彈簧抗拉力 8000kgs × 2
- 彈簧夾持力 130kgs × 2
- 增壓鎖緊 420kgs × 2
- 中心孔吹氣功能
- 規格外可訂製



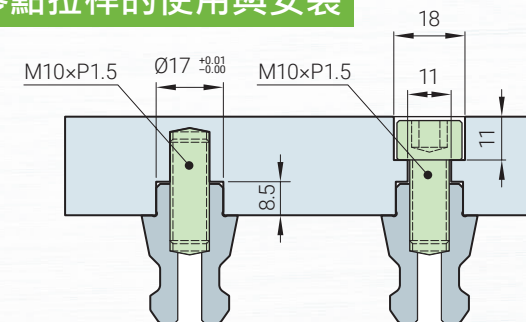
Z-150S-100S

- Max. clamping force 8000kgs × 2
- Spring force 130kgs × 2
- Air pressure 6kg/cm² clamping force 420kgs × 2
- Center hole with cleaning and oiling functions
- Custom-made spec. is available

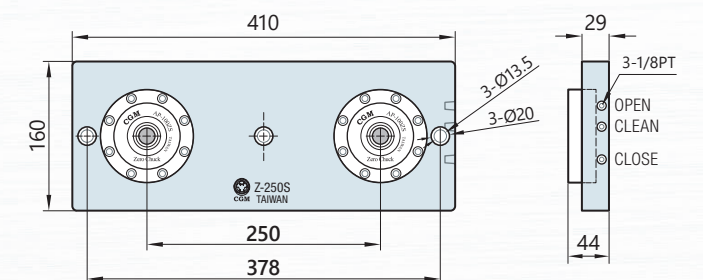


Z-200S-100S

零點拉桿的使用與安裝



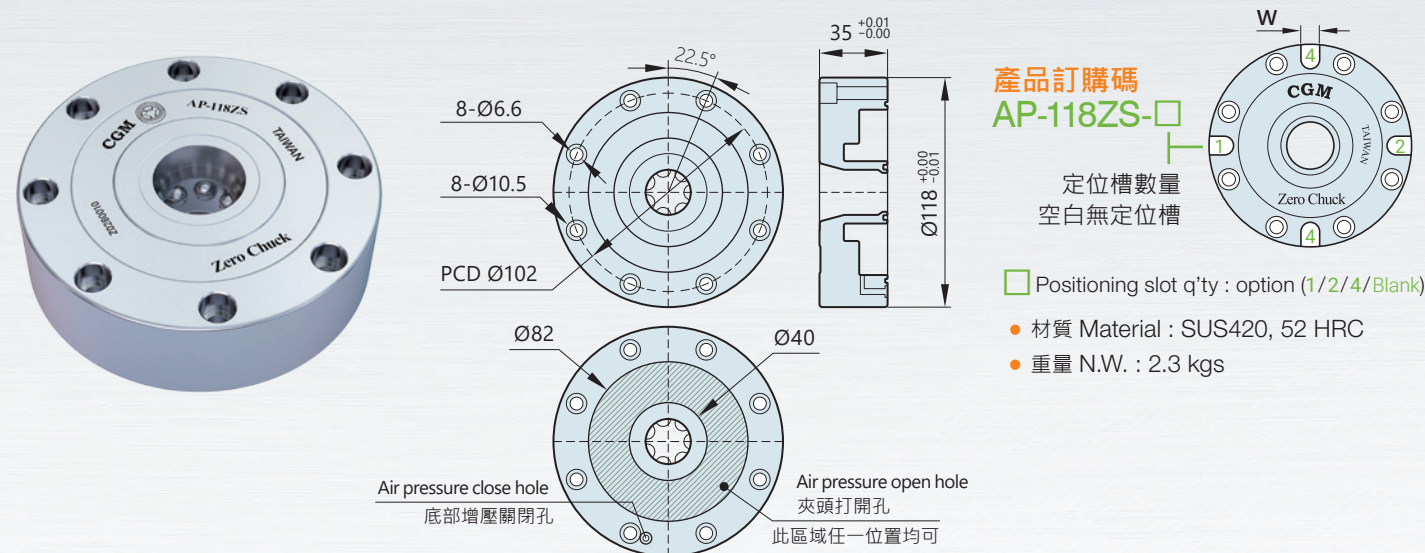
零點夾頭和拉桿之間公差必須控制在 ±0.01mm 內
The tolerance between zero-point chuck and drawbars must be controlled within ±0.01mm



Z-250S-100S

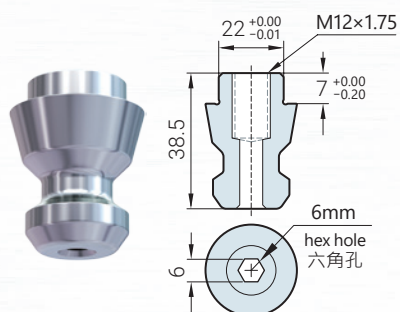
定位板平面度誤差 0.01mm / 150mm
Flatness tolerance 0.01mm / 150mm

AP-118ZS 零點氣動夾頭 Zero-Point Chuck

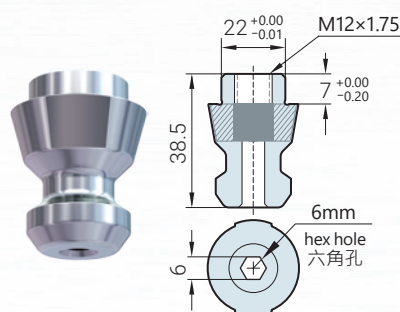


- 極限彈簧抗拉力 10000kgs
- 本體、鋼珠、及零件由不銹鋼製成可於水中使用 (彈簧除外)。
- 具中心孔除污吹氣(噴液)功能 (可搭配壓力開關作檢測)。
- 重複定位精度 0.005mm
- 彈簧夾持拉力 400kgs
- 氣壓 6kg/cm² 增壓壓力 1300 kgs
- 最低供氣壓力 6kg/cm²
- Max. clamping force is up to 10000kgs
- Main body, steel ball and components are made of stainless steel which can be used in the water. (excl. Spring)
- Center hole with cleaning and oiling functions (can work with pressure switch for checking)
- Repeat positioning accuracy 0.005mm
- Spring force 400kgs
- Air pressure 6kg/cm² clamping force 1300kgs
- Min. Air pressure 6kg/cm²

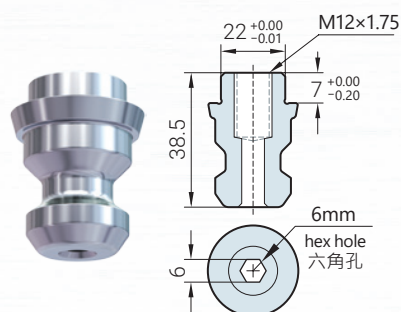
PZ-30B 基準拉桿 Centering drawbar



PZ-30L 定向拉桿 Compensation drawbar

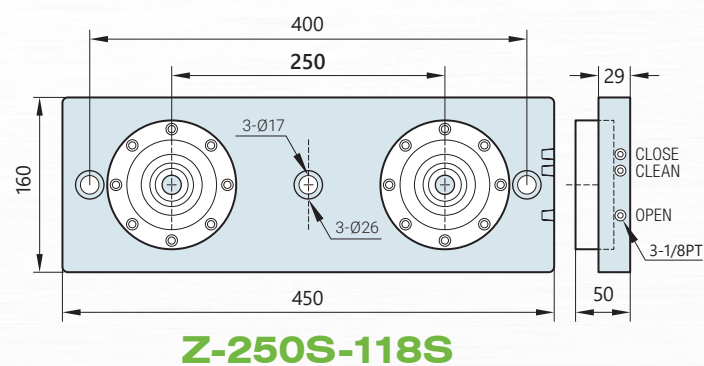
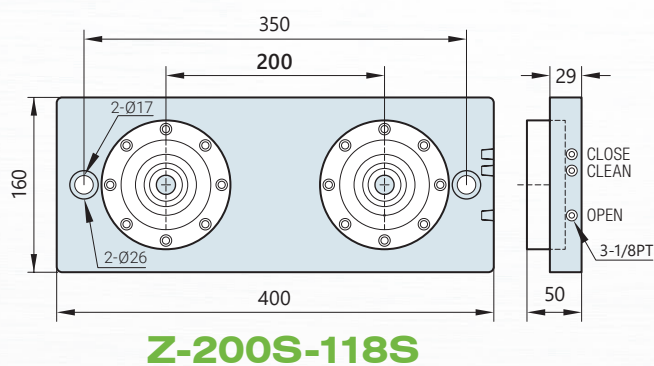


PZ-30H 夾緊拉桿 Chucking drawbar

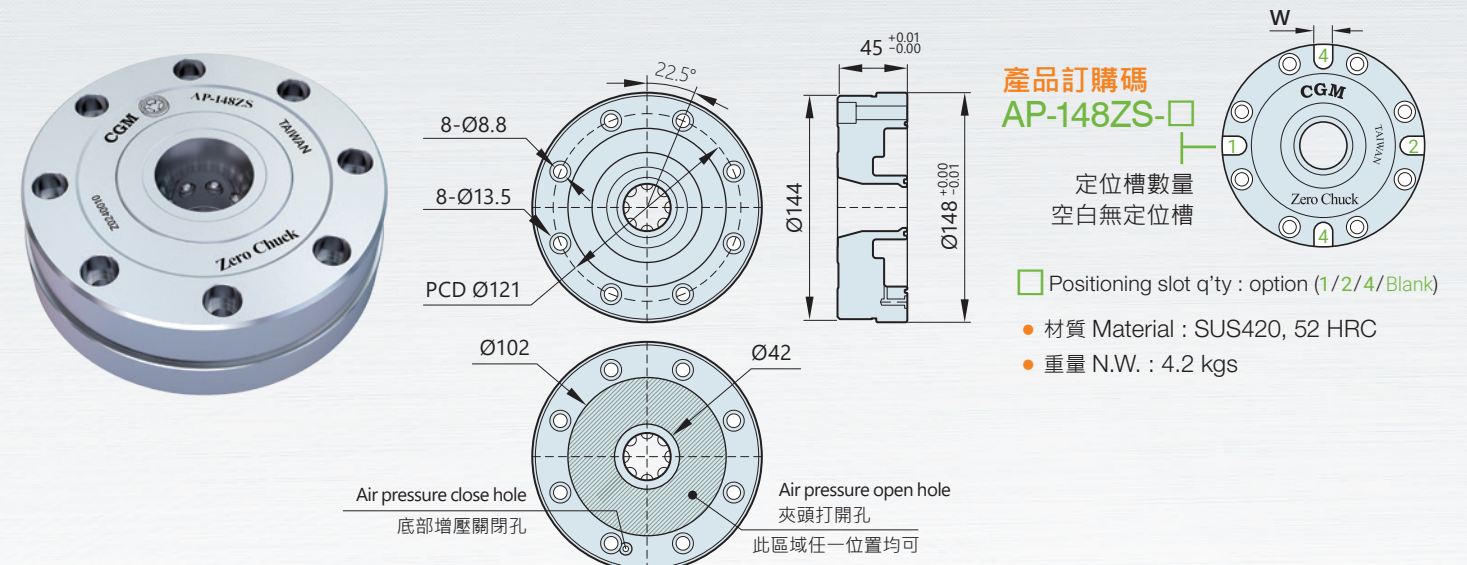


零點氣動夾頭定位板組 Zero-Point Chuck with base plate

- 極限彈簧抗拉力 10000kgs × 2
- 彈簧夾持力 400kgs × 2
- 增壓鎖緊 1300kgs × 2
- 中心孔吹氣功能
- 規格外可訂製
- Max. clamping force 10000kgs × 2
- Spring force 400kgs × 2
- Air pressure 6kg/cm² clamping force 1300kgs × 2
- Center hole with cleaning and oiling functions
- Custom-made spec. is available

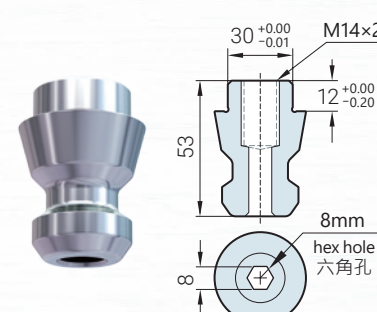


AP-148ZS 零點氣動夾頭 Zero-Point Chuck

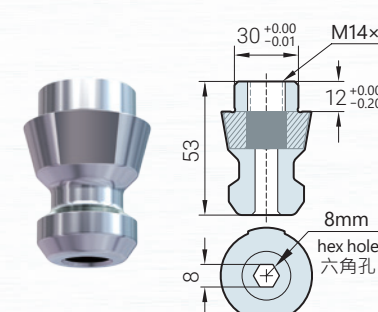


- 極限彈簧抗拉力 15000kgs
- 本體、鋼珠、及零件由不銹鋼製成可於水中使用 (彈簧除外)。
- 具中心孔除污吹氣(噴液)功能 (可搭配壓力開關作檢測)。
- 重複定位精度 0.005mm
- 彈簧夾持拉力 450kgs
- 氣壓 6kg/cm² 增壓壓力 1650 kgs
- 最低供氣壓力 6kg/cm²
- Max. clamping force is up to 15000kgs
- Main body, steel ball and components are made of stainless steel which can be used in the water. (excl. Spring)
- Center hole with cleaning and oiling functions (can work with pressure switch for checking)
- Repeat positioning accuracy 0.005mm
- Spring force 450kgs
- Air pressure 6kg/cm² clamping force 1650kgs
- Min. Air pressure 6kg/cm²

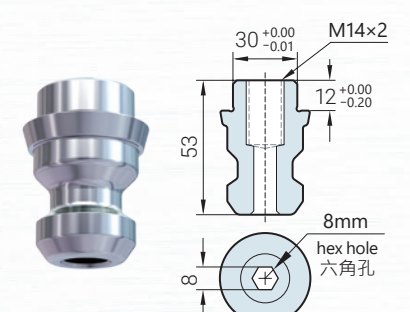
PZ-38B 基準拉桿 Centering drawbar



PZ-38L 定向拉桿 Compensation drawbar



PZ-38H 夾緊拉桿 Chucking drawbar



零點氣動夾頭定位板組 Zero-Point Chuck with base plate

