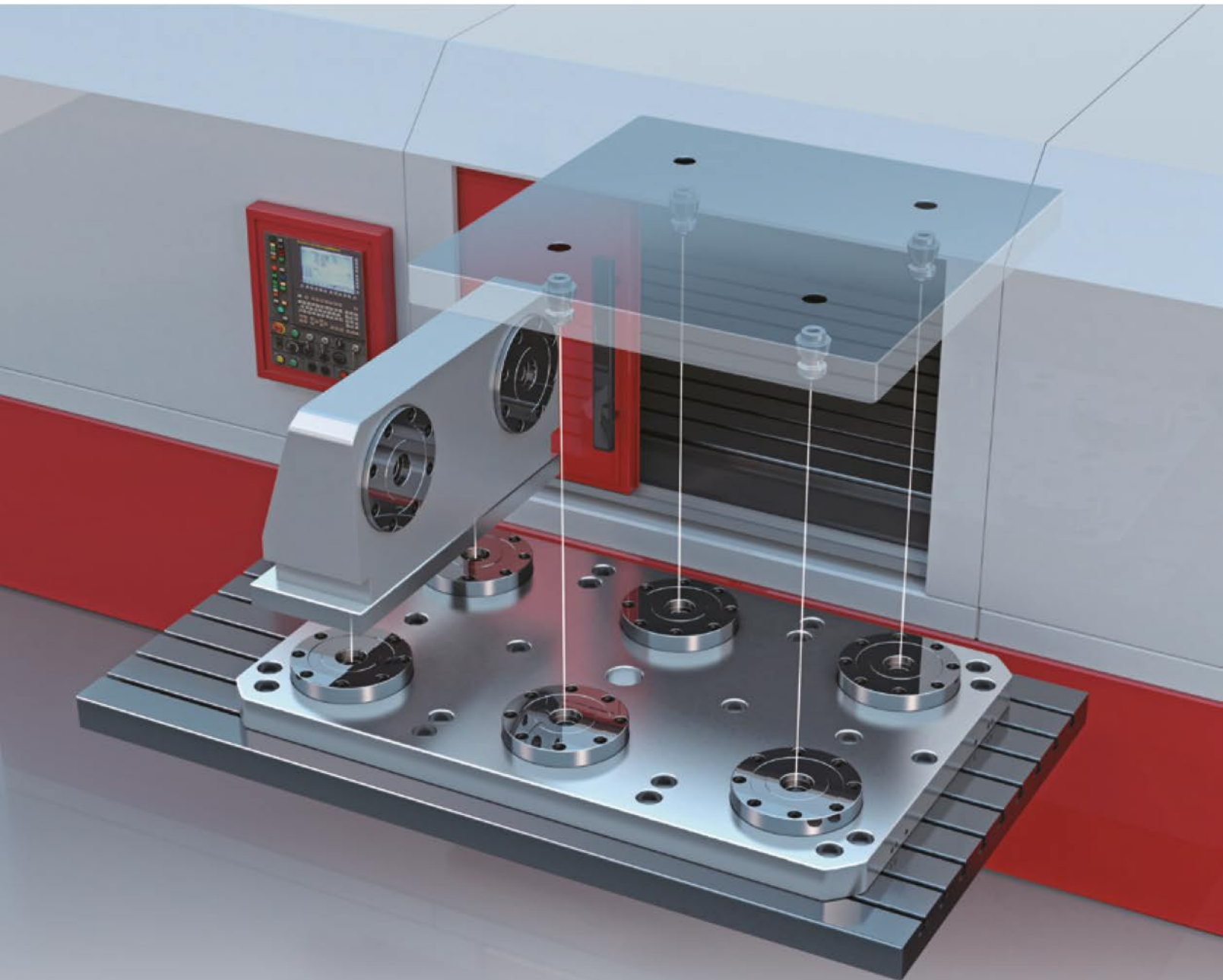


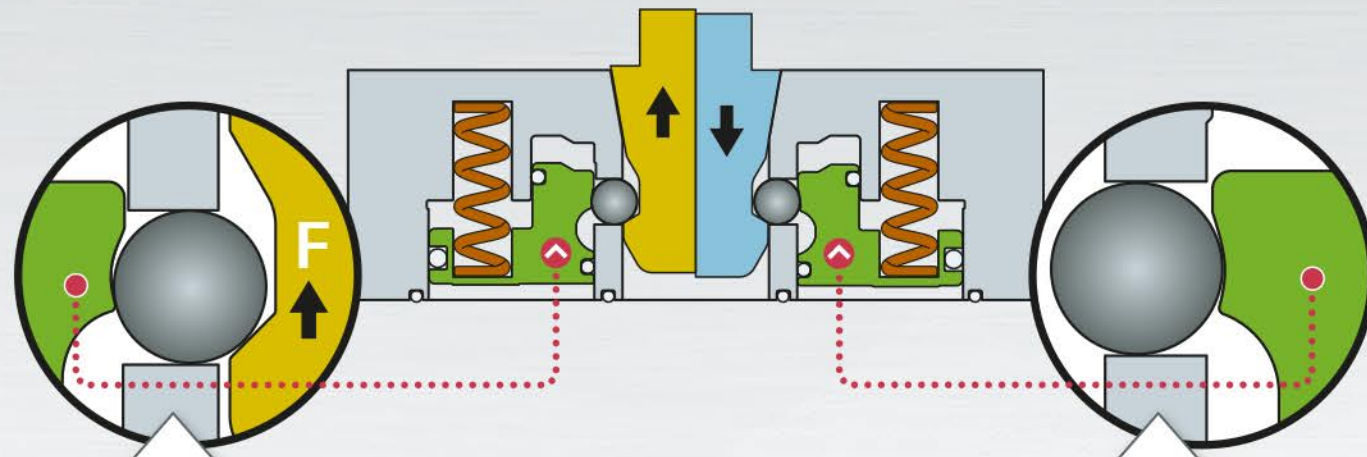
ZERO-POINT CHUCK



零點氣動夾頭結構圖解

Zero-point Chuck Diagram

Taiwan Invention and Patent registered in many countries
本產品台灣發明及多國專利申請中



Max. Clamping Force 極限夾持力

當外力大於夾緊機構時鋼珠會被卡住
被加工物只會產生振動但不會鬆脫。

極限夾持力高達 8000kgs

When the external force is bigger than of the
clamping mechanism, the steel ball will be stuck
so the workpiece won't drop off but vibrate instead.

Max. clamping force is up to 8000 kgs

Curve Shape Clamping 弧形夾持面

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。

採用不銹鋼珠可在純水環境工作。

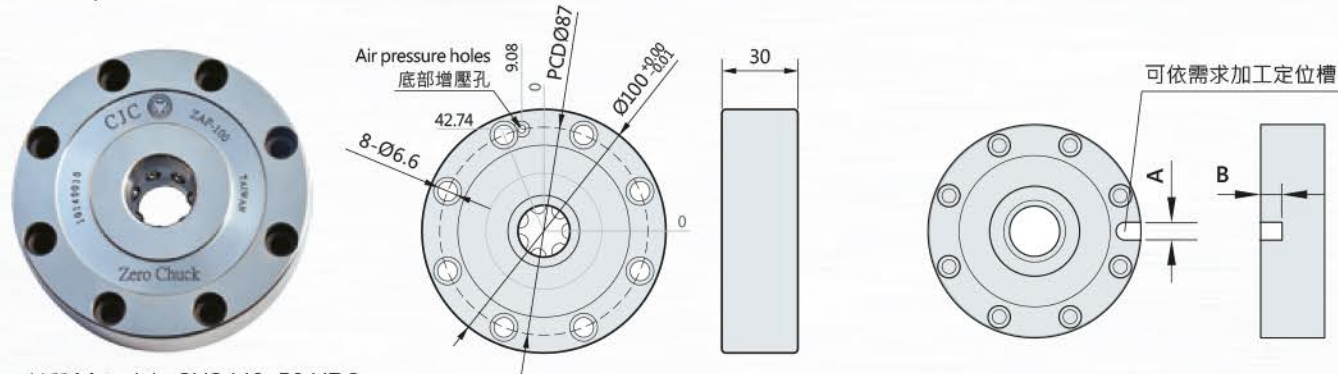
常態彈簧夾持力高達 2500kgs

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.

Spring force is up to 2500 kgs

AP-100Z 零點氣動夾頭 Zero-point Chuck



- 材質 Material : SUS440, 56 HRC
- 重量 Weight : 1.4 kgs

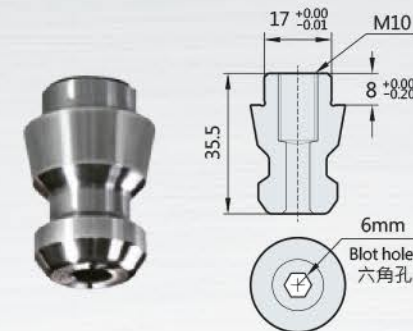
- 極限夾持力高達 8000kgs
- 本體鋼珠及零件由不銹鋼製成可於水中使用 (彈簧除外)。
- 具中心孔除污吹氣(噴液)功能 (可搭配壓力開關作檢測)。
- 重複定位精度 0.005mm
- 彈簧夾持力 2500kgs
- 氣壓增壓夾持力 3500kgs
- 最低供氣壓力 6kg/cm²

- Max. clamping force is up to 8000kgs
- Main body, steel ball and accessories 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 testing)
- Repeat positioning accuracy 0.005mm
- Spring force 2500kgs
- Air pressure clamping force 3500kgs
- Min. Air pressure 6kg/cm²

零點拉桿的使用與安裝

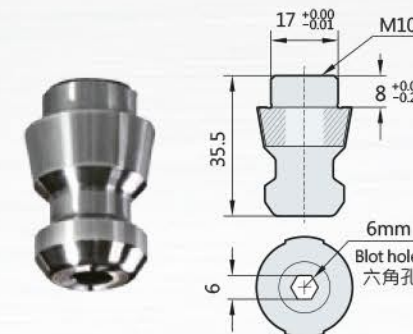
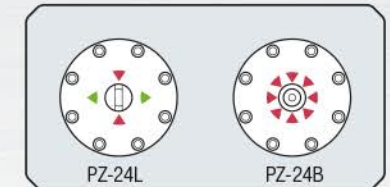
Drawbar for Zero-Point Chuck

- 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 $\pm 0.01\text{mm}$.



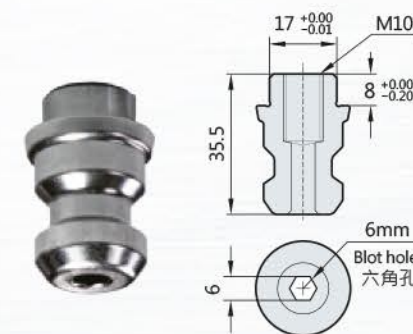
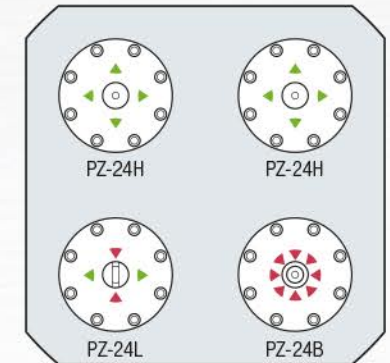
PZ-24B 基準拉桿 Centering drawbar

- 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



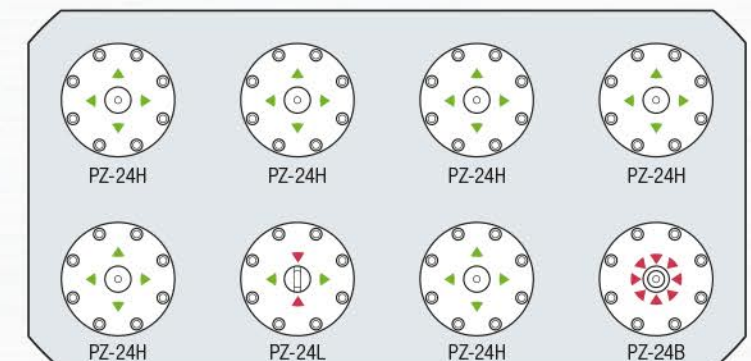
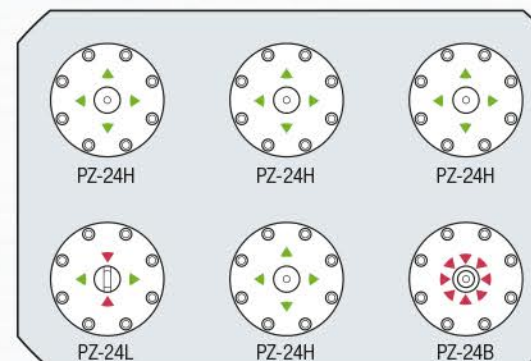
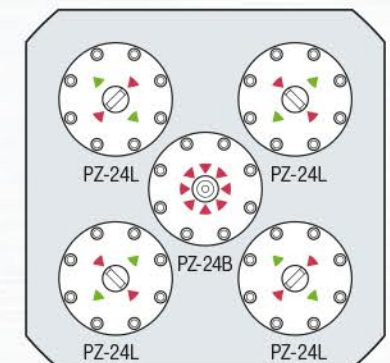
PZ-24L 定向拉桿 Compensation drawbar

- 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-24H 夾緊拉桿 Chucking drawbar

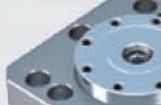
- 主要作用Z軸向夾緊
X,Y 軸向可微量移動。
- It mainly clamps toward Z axis and allow
the X and Y axis with slightly move.
- 材質：高硬度不銹鋼。
- Material : High hardness stainless steel

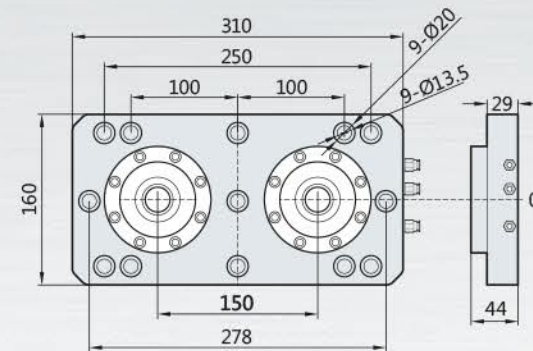


零點氣壓夾頭定位板組

Z-150 2夾頭零點定位板組

Base Plate With Zero-Point Chuck x 2 Sets

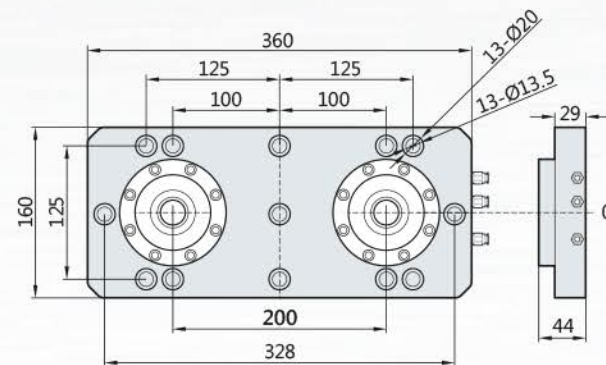
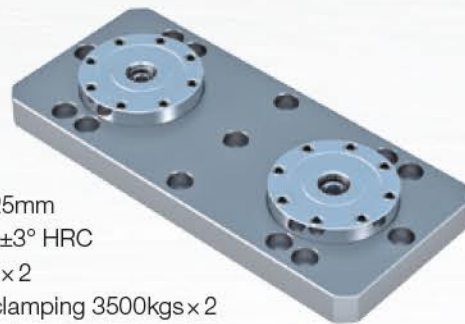
- 供T型槽寬100/125mm使用。
 - 鋼製基板 硬度HRC $28^{\circ} \pm 3^{\circ}$
 - 夾持力 2500kgs $\times 2$
 - 增壓鎖緊 3500kgs $\times 2$
 - 中心孔吹氣功能
 - 規格外可訂製
- 



Z-200 2夾頭零點定位板組

Base Plate With Zero-Point Chuck x 2 Sets

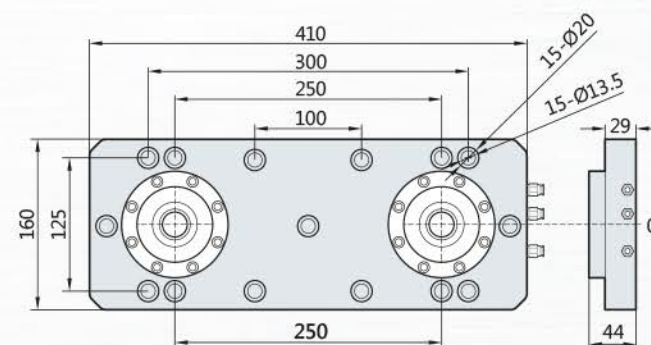
- 供T型槽寬100/125mm使用。
 - 鋼製基板 硬度HRC $28^{\circ}\pm 3^{\circ}$
 - 夾持力 2500kgs $\times 2$
 - 增壓鎖緊 3500kgs $\times 2$
 - 中心孔吹氣功能
 - 規格外可訂製
- 



Z-250 2夾頭零點定位板組

Base Plate With Zero-Point Chuck x 2 Sets

- 供T型槽寬100/125mm使用。
- 鋼製基板 硬度HRC 28°±3°
- 夾持力 2500kgs×2
- 增壓鎖緊 3500kgs×2
- 中心孔吹氣功能
- 規格外可訂製
- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Clamping force 2500kgs×2
- Clamping power with reclamping 3500kgs×2
- Center hole with cleaning function
- Custom-made spec. is available



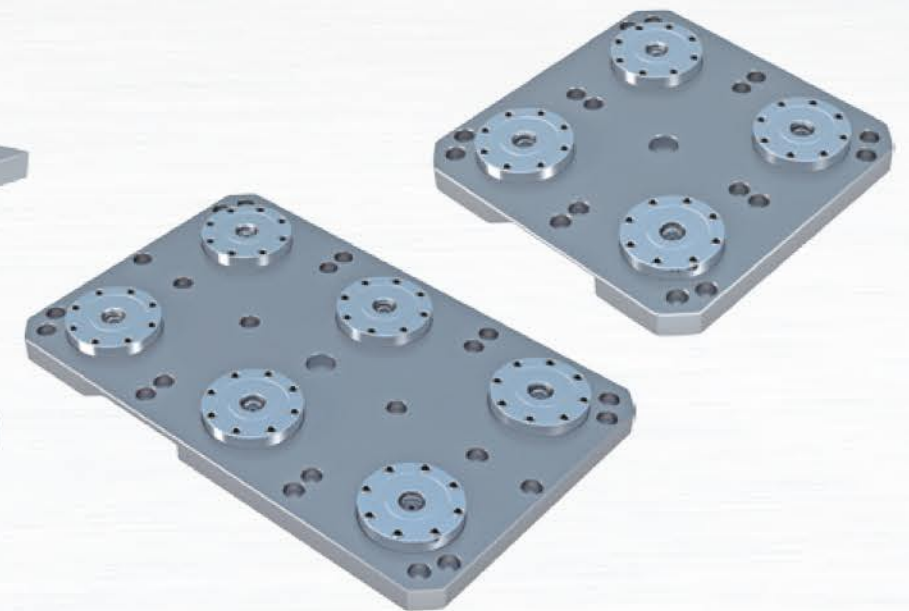
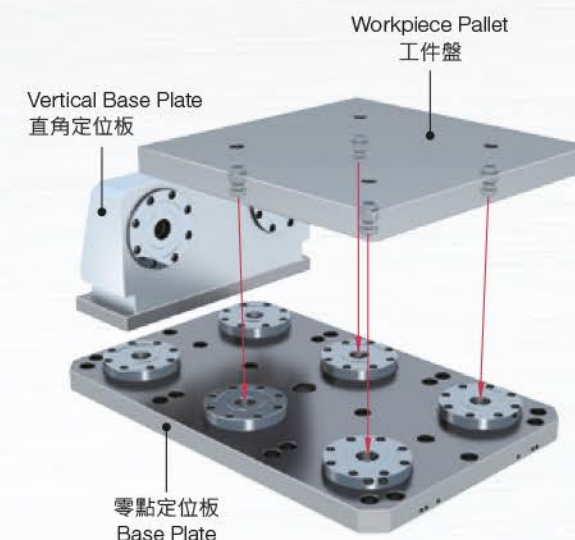
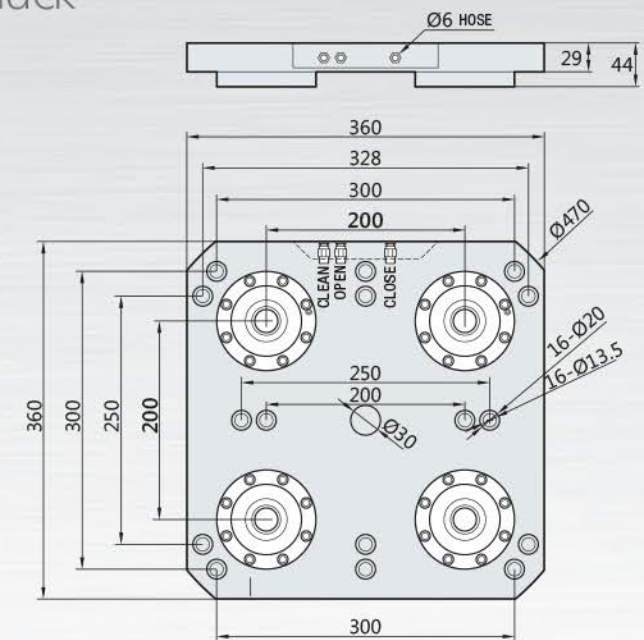
零點氣壓夾頭定位板組

Base Plate With Zero-Point Chuck

Z-42020 4夾頭零點定位板組

Base Plate With Zero-Point Chuck x 4 Sets

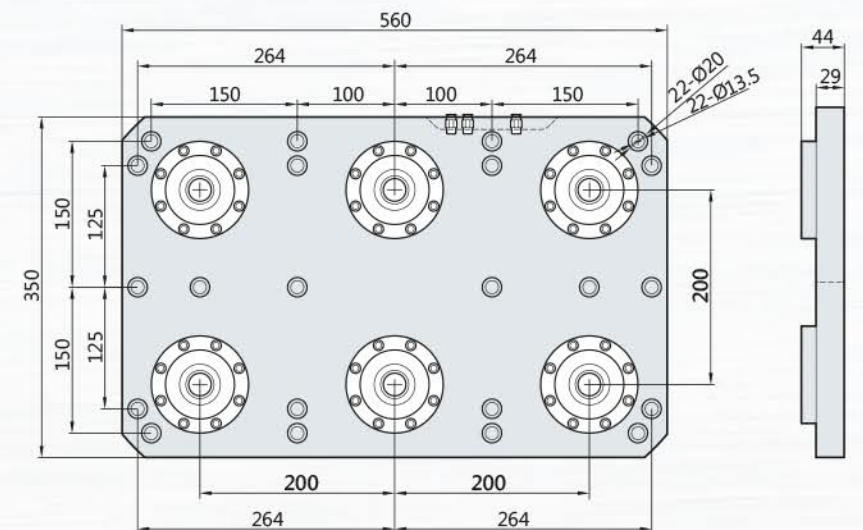
- 供T型槽寬100/125mm使用。
 - 鋼製基板 硬度HRC $28^{\circ} \pm 3^{\circ}$
 - 夾持力 2500kg $\times$ 2
 - 增壓鎖緊 3500kg $\times$ 2
 - 中心孔吹氣功能
 - 規格外可訂製
-
- Apply to T slot 100/125mm
 - Steel base plate with $28^{\circ} \pm 3^{\circ}$ HRC
 - Clamping force 2500kg $\times$ 2
 - Clamping power with reclamping 3500kg $\times$ 2
 - Center hole with cleaning function
 - Custom-made spec. is available



Z-62020 6夾頭零點定位板組

Base Plate With Zero-Point Chuck x 6 Sets

- 供T型槽寬100/125mm使用。
 - 鋼製基板 硬度HRC $28^{\circ} \pm 3^{\circ}$
 - 夾持力 2500kgs $\times 2$
 - 增壓鎖緊 3500kgs $\times 2$
 - 中心孔吹氣功能
 - 規格外可訂製
-
- Suitable for T slot 100/125mm
 - Steel base plate with $28^{\circ} \pm 3^{\circ}$ HRC
 - Clamping force 2500kgs $\times 2$
 - Clamping power with reclamping 3500kgs $\times 2$
 - Center hole with cleaning function
 - Custom-made spec. is available

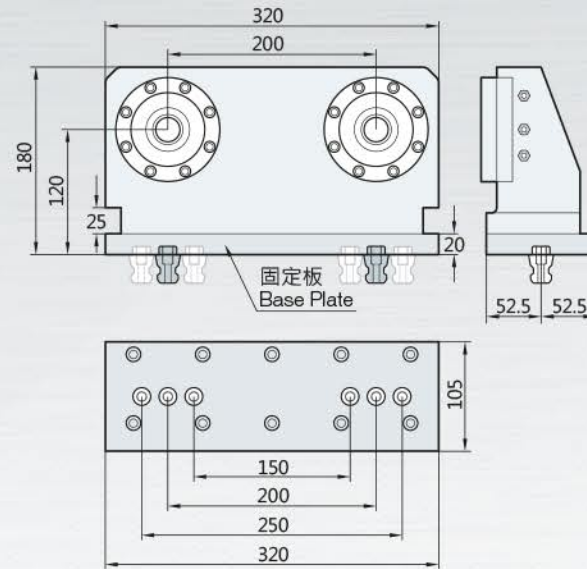


零點氣壓夾頭定位板組

Vertical Base Plate With Zero-Point Chuck

Z-200L 2夾頭直角定位板組

- 材質：夾頭座本體高強度鋁合金。
- 固定板鋼製 硬度HRC 28°±3°
- 夾持力 2500kgs×2
- 增壓鎖緊 3500kgs×2
- 中心孔吹氣功能
- 可用虎鉗夾持，磁盤吸著或鎖固在床臺上
- 規格外可訂製



- Suitable for T slot 100/125mm
- Steel base plate with 28°±3° HRC
- Clamping force 2500kgs×2
- Clamping power with reclamping 3500kgs×2
- Center hole with cleaning function
- It can work with Vise, Magnetic Chuck or be fixed on the machine table.
- Custom-made spec. is available

擋屑環及定位環

Z-1003

檔屑環 Chip Cover Ring



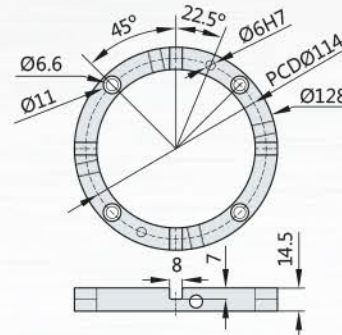
檔屑環使用例
Example

Z-1004

定位環 Positioning Ring



定位環使用例
Example



- 於單顆使用時定位托盤方向。
- 高硬度不鏽鋼，硬度HRC 52°
- 規格外可訂製
- When using the chuck singly, it can help to position the direction of pallet.
- Stainless Steel with 52 HRC
- Custom-made spec. is available

FSV8632-02SF

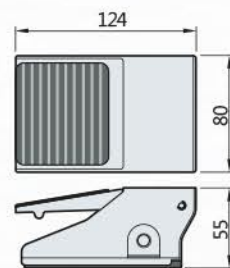
腳踏閥 Foot Switch

- 氣壓用五口二位機械閥。
- 配管尺寸 PT1/4
- 彈簧回拉、附保護蓋

- 5/2 Way Mechanical Valve
- Port Size: 1/4"
- Spring return operation, with foot guard.



最大耐壓 Proof Pressure : 10 kgf/cm²



UFR/L-02

二點式三點組合

Filter Regulator + Lubricator

- 最大流量 2080 liter/min (ANR)
- 配管尺寸 PT1/4
- 最大耐壓 9.9 kgf/cm²
- 環境溫度 -10°C ~ 60°C



工件盤

Workpiece Pallet

P-150~250A 工件盤

Workpiece Pallet for Zero-Point Chuck × 2 Sets

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

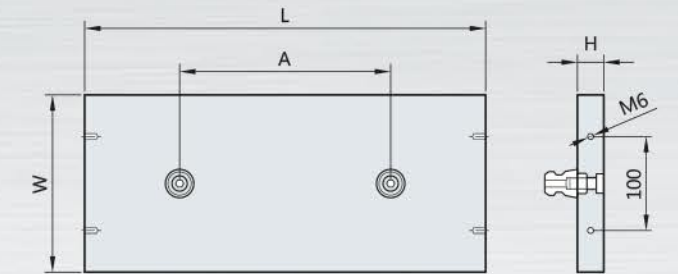
基準拉桿 PZ-24B ×1

定向拉桿 PZ-24L ×1

材質：高強度鋁合金

Material:

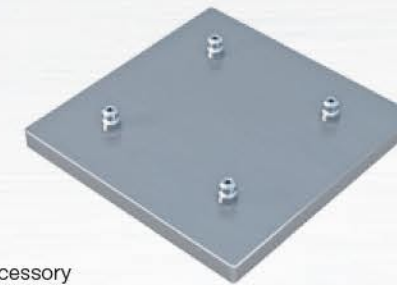
High-strength Aluminum Alloy



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 工件盤

Workpiece Pallet for Zero-Point Chuck × 4 Sets



附拉桿 Standard Accessory

基準拉桿 PZ-24B ×1

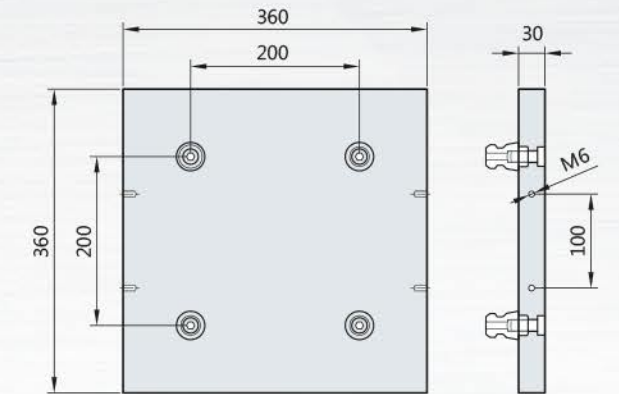
定向拉桿 PZ-24L ×1

夾緊拉桿 PZ-24H ×2

材質：高強度鋁合金

Material:

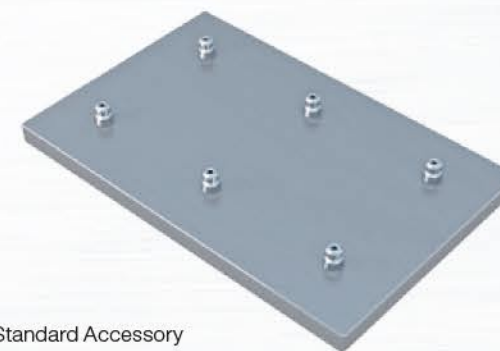
High-strength Aluminum Alloy



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 工件盤

Workpiece Pallet for Zero-Point Chuck × 6 Sets



附拉桿 Standard Accessory

基準拉桿 PZ-24B ×1

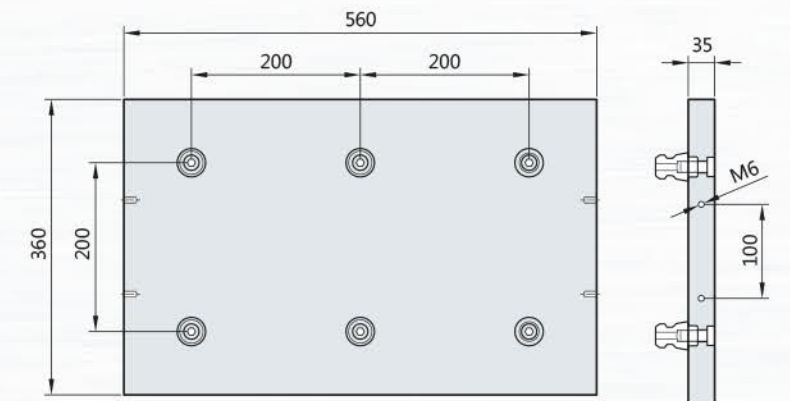
定向拉桿 PZ-24L ×1

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)

TSV8652-01M

手動閥 Hand Control Valve

- 氣壓用五口二位機械閥。
- 配管尺寸 PT1/8
- 5/2 Way Mechanical Valve
- Port Size: 1/8"



最大耐壓 Proof Pressure : 10 kgf/cm²

