

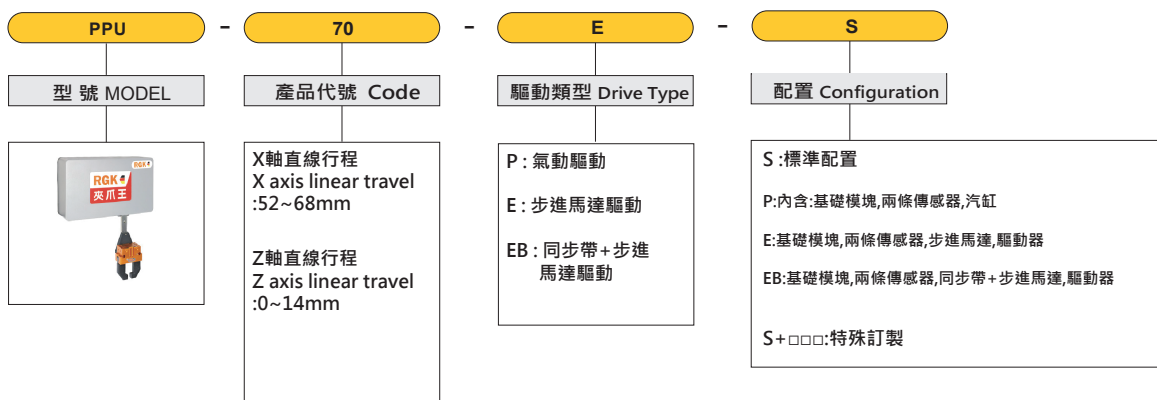
▶ PPU-70



技術資料 Technical data

型號 Model		PPU-70-P	PPU-70-E	PPU-70-EB
X軸直線行程 X axis linear travel	mm	52~68	52~68	52~68
Z軸直線行程 Y axis linear travel	mm	0~14	0~14	0~14
工作負載重量 Working load weight	g	500	500	800
動作循環時間 Action Cycle Time	s	0.5	0.5	0.5
重覆精度 Repeat accuracy	mm	0.02	0.02	0.02
本體重量 Body Weight	kg	2.9	3.7	3.7
緩衝型式 Buffer Type		兩端油壓緩衝器 Both ends of the hydraulic shock absorber	-	-
檢測裝置 Detecting means		磁簧式或進階感應開關Magnetic reed switches or proximity sensors(OMRON TL-W3MC1)		
安裝型式 installation Type		通孔安裝/特殊訂製 Through Hole / Specials		
工作氣壓 Working pressure		4~7 bar	-	-
工作電壓/電流 Working voltage / current		-	24~48V DC 3A	24~48V DC 3A
工作溫度 Working temperature	°C	70	70	70

訂購代號 How to code

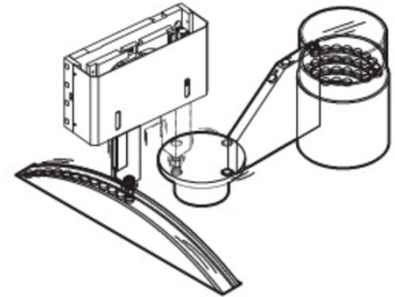


產品應用方式 Application Information

- 結構緊湊，節省空間 Compact, space-saving
- 調試簡單，十分鐘即可完成調整 Debugging is simple, ten minutes to complete the adjustment
- 簡易式獨立的行程調節 Simple style independent stroke adjustment
- 循環週期短，減少不必要的動作與時間 Short cycle time, reduce unnecessary movements and time
- 模組化商品，節省研發投入時間 及後期的維修成本 Modular product, R & D investment to save time and maintenance costs later

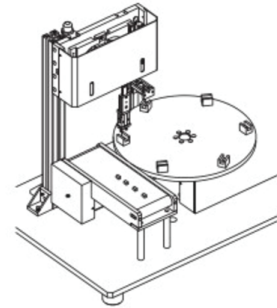
組裝應用 Assembly applications

PPU 平移式機械手 + 震動筒 + 分度盤 + 輸送帶
 PPU pan manipulator + shock tube + conveyor
 + indexing plate



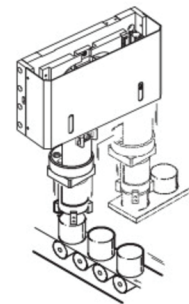
塑膠零件快速組裝應用 Rapid assembly of plastic parts Application

PPU 平移式機械手 + 分割器轉盤 + 輸送帶
 PPU pan manipulator + shock tube + indexing plate



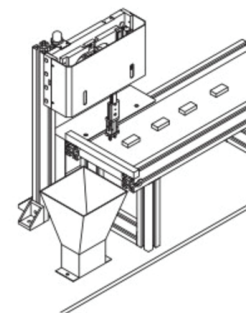
食品包裝快速拾放應用 Food packaging fast pick and place applications

PPU 平移式機械手 + 輸送帶 + 三指定心夾爪
 PPU conveyor pan manipulator + heart + three designated jaws

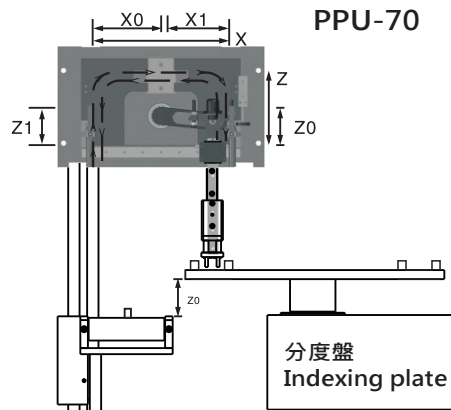


流水線生產快速拾放應用 Production lines fast pick and place applications

PPU 平移式機械手 + 輸送帶 + 兩指平動機械夾爪
 PPU pan manipulator + conveyor means + two translational machinery jaw



PPU-70-E , PPU-70-EB 行程調整方法 Adjustment Project



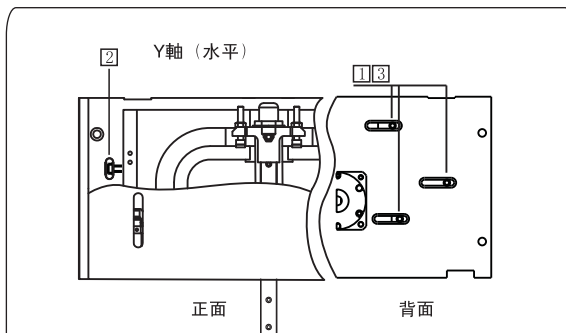
● X軸行程 X-axis travel

裝配好PPU後,可單獨調節起始位置的X軸行程
After assembled PPU, individually adjustable X-axis travel starting position

● Z軸行程 Z-axis travel

調整X軸後,可快速調整旋轉分度盤或傳送系統之間的高度差距,達到獨立調整Z軸行程
After adjustment of the X-axis, you can quickly adjust the height of the gap between the rotary indexing plate or transmission system, to independently adjust the Z-axis travel

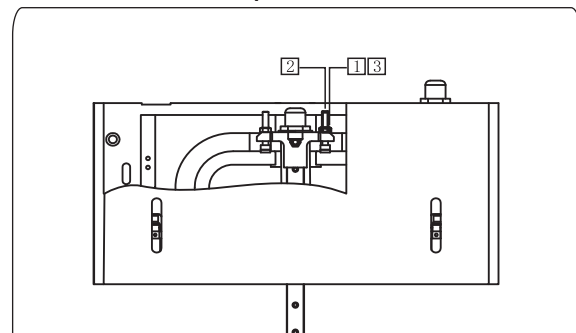
● X軸(水平位置) X-axis (horizontal position)



安裝過程Installation process:

- ① 用內六角鬆開緊固螺絲
 - ② 用調節螺絲裝置調整凸輪槽導向板裝置(導向板必須平鋪在導軌上)
 - ③ 用內六角鎖緊螺絲
- ① Loosen the fastening screws Allen
 - ② Use the adjusting screw means for adjusting the cam groove guide plate means (guide plate must be flat on the rails)
 - ③ Use a hex locking fastening screws

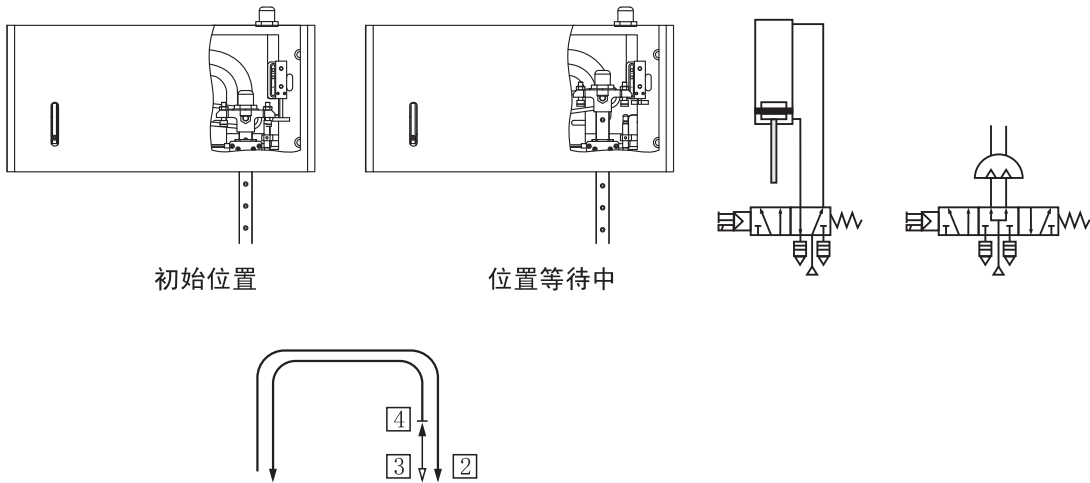
● Y軸(垂直位置) Y-axis (vertical position)



安裝過程Installation process:

- ① 用內六角鬆開緊固螺絲
 - ② 用調節螺絲裝置調整Z軸的行程位置
 - ③ 用內六角鎖緊螺絲
- ① Loosen the fastening screws with hexagon
 - ② With adjusting screw means for adjusting the position of the Z-axis travel
 - ③ Use a hex locking fastening screws

PPU-70-P 行程調整方法 Adjustment Project



- ① 等待汽缸位置在原始點伸出
- ② 當PPU到達終點時,五口三位電磁閥復位
- ③ 返回過程中等待汽缸將PPU拉回期等待位置,拾放工作物品
- ④ 從等待位置擺動到初始位置或另一個終端

- ① Wait cylinder position of the original point projecting
- ② When the PPU reach the end, five three valve reset
- ③ Back during the wait for the PPU cylinder back of a waiting position, pick and place work items
- ④ Swing from the waiting position to the initial position or another terminal

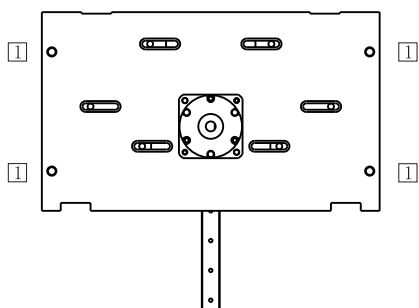
注意

當與等待位置一起使用時,PPU拾放模塊必須由一個五口三位中閉型電磁閥控制,位置等待汽缸由一個五口二位電磁閥控制

note

When used in conjunction with a waiting position, CPU die pick and placeIt must be made by a five block in three closed solenoid valveControlled by the position of waiting for a five-cylinder two electric Solenoid valve control

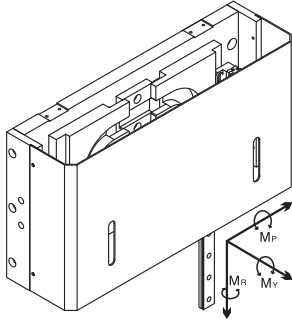
PPU 腳架安裝方法Foot mounting method



- ① 通過通孔直接安裝腳架或鋁擠型
Direct mounting tripod or aluminum extrusion through the through hole

靜態動態工作支撐臂剛性質

Static and dynamic nature of the work supporting arm just



組合附載

力矩作用於垂直導軌的中心。

組合負載必須要滿足下列力矩方程：

$$\frac{M_x}{M_{xperm}} + \frac{M_y}{M_{yperm}} + \frac{M_n}{M_{nperm}} \leq 1$$

靜態特性鋼性值

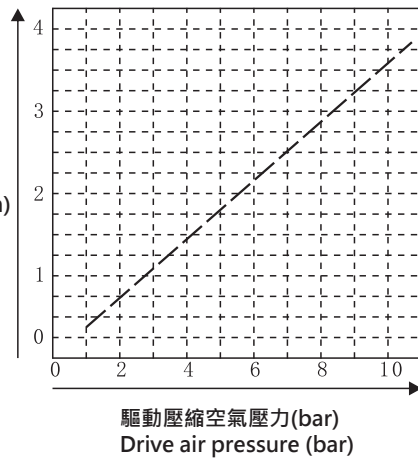
規格	PPU-70	PPU-110	PPU-170	PPU-230
最大扭矩鋼性值 [kN] $M_{xperm}, M_{yperm}, M_{nperm}$	0.02	0.02	0.04	0.04

動態特性鋼性值

規格	PPU-70	PPU-110	PPU-170	PPU-230
最大扭矩鋼性值 [kN] $M_{xperm}, M_{yperm}, M_{nperm}$	0.01	0.01	0.02	0.02

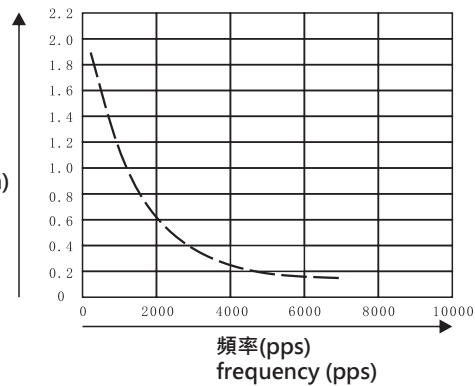
● PPU-70-P 氣動型 Pneumatic type

驅動力矩(N.m)
Driving torque (N.m)

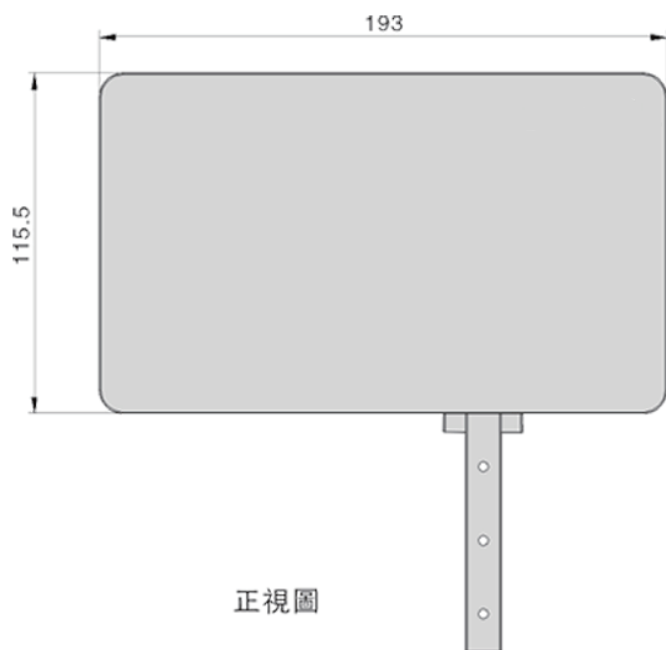


● PPU-70-E PPU-70-EB 電動型 Electric type

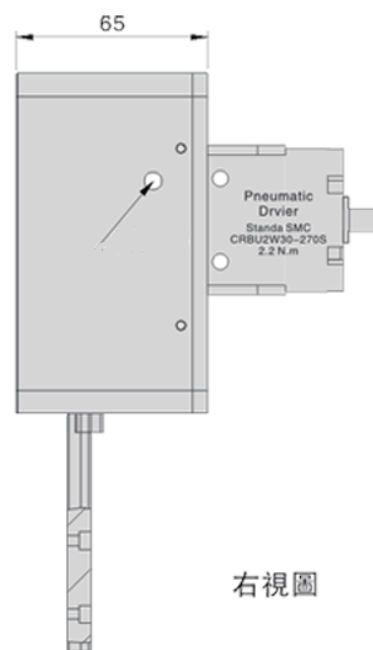
保持轉矩(N.m)
Holding torque (N.m)



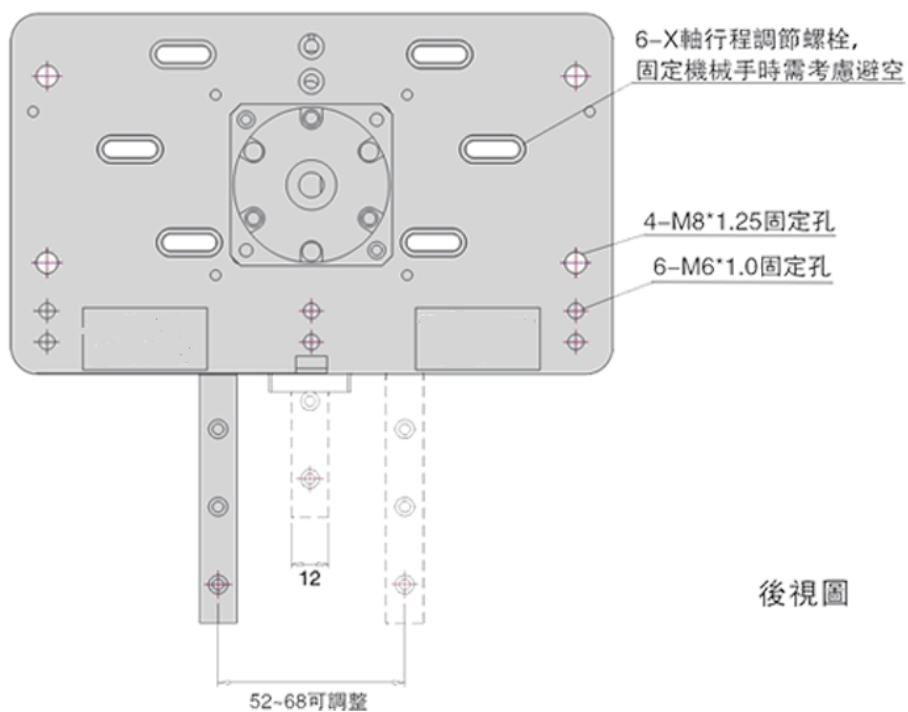
外觀尺寸圖 Dimensions



正視圖



右視圖



PPU