

# Swing-Arm Robots

## 旋臂式機械手

### 斜臂機

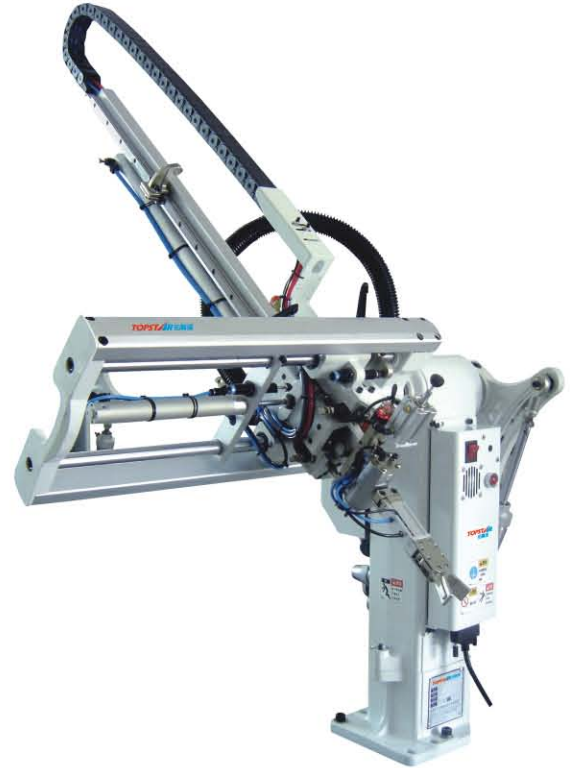
Swing Arm Robot- (for Horizontal IMM use)

X-550(PR,V) X-650(PR,V) XW-650(PR,V)

### 側取型機械手

Swing Arm Robot- (for Vertical IMM use)

L-550(V) L-650(V)



適用於50~ 250噸的各型卧式/立式射出成型機，主要用于水口取出,也適用於簡易成品及水口取出。上下手臂型式有單截式及雙截式,上下行程為550/650mm。爪旋機構，可以旋轉成品90度。它可以快速、準確地將水口料從模具內取出并交由機邊粉碎機進行立即回收。

### 機械結構

用高强度鋁型材，配合精密綫型滑軌；重量輕，鋼性好，磨擦低，壽命長。

### Structural Units

Employed high strength & tension aluminum alloy to work with precise linear guide way, features with light weight, wear resistance, long service life.

### 爪旋機構

手臂前端可旋轉90°，夾具之吸夾裝有無料檢測裝置(選配)

### Wrist Rotation Mechanism

The arm front section for installing gripper can rotate 90°; absorbs & gripper jig can be installed with sensor device for detecting to get products or not.

### 安全保護

與注塑機聯動，雙重鎖模安全保護，保障模具安全。取出成品確認，確保產品未取出不鎖模。

### Safety Protection

External signal interlock with injection molding machine to have double safety protection for molds to ensure no locking molds if parts are not taken out via the signal confirmation of finished product removal.

Swing-Arm Robots are extensively applied to horizontal / vertical plastic injection machines ranging from 50T ~ 250T which can rapid take out the runners, runner and finished products from the mold of plastic injection molding machines, and place runners or runner into beside-the-press granulator for recycling immediately. There are two types of arms-single stage and telescopic. The vertical stroke for single stage is 550mm and for telescopic is 650mm. This series equipped with wrist rotation mechanism and gripper sensor can rotate products with 90° .

### 功能特點

- ◆X軸可旋轉90°方便換模作業,並配有緩衝器,使進退行程更加穩定。
- ◆Y軸配備防滑落氣缸。
- ◆Z軸旋臂可調整角度45°~90°,依實際需求更改置物方向。(即射出機正操作側或反操作側)

### Function Features

- ◆X axis can rotate 90° which is for changing molds conveniently, equipped with hydraulic shock absorber for making forward & backward stroke more stable and smooth.
- ◆Y axis is equipped with device to avoid pneumatic cylinder falling;
- ◆Z axis can be adjusted angle from 45°~90° for placing finished parts by different direction according to requirement ( to place parts at the operate side or non-operate side of injection molding machines).

### 控制系統

小巧型手持式控制器，人性化操作界面，操作安全簡便。

### Control System

Palm controller, friendly operation interface, easy operation.

## 機型特點

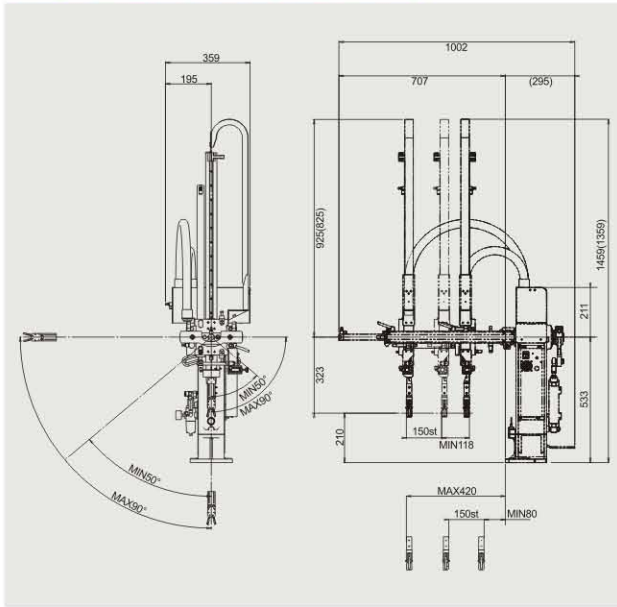
- ◆X-650機型可單獨取水口料頭,取制品,也可以同時取兩板模的制品和水口料頭。
- ◆X-650PR機臺可以用來同時取三板模的制品和水口料頭,也可以任意一個手臂單獨使用。
- ◆L-550機臺專門為立式機設計,適合全自動取出水口料頭。

## Model Features

- ◆X-650 are mainly used for removal of runner or finished products independently; also can be used for removal of runner and finished products from 2 plate mold simultaneously.
- ◆X-650PR are mainly used for removal of runner & runner and finished products from 3 plate mold simultaneously and any arm can be used independently for remove finished parts or runner.
- ◆L-550 are extensively applied to vertical injection molding machines, can be used for removal of runner, with fully auto operation.

## 斜臂機

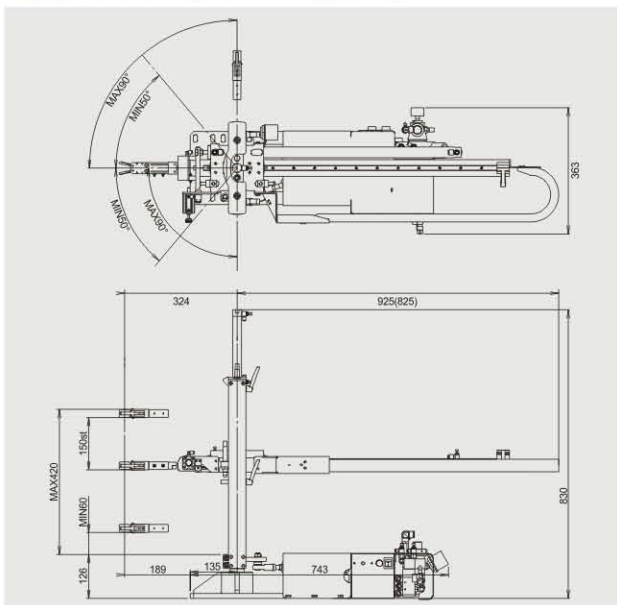
### Swing Arm Robot- (for Horizontal IMM use)



型號 Model	X-550(PR,V)	X-650(PR,V)	XW-650(PR,V)
手臂型式 Type	單載 Single-stage		雙載 Double-stage
適用射出成型機 I.M.M. Range(TON)	50-150	80-180	120-180
上下行程 Vertical Stroke(mm)	550	650	650
前后行程 Crosswise Stroke(mm)	150	150	150
旋出角度 Swing Angle(°)	50-90		50-90
爪旋角度 Gripper Rotation Angle(°)	90		
最大荷重 Max. Load(kg)	2	2	3
最小取出時間 Min. Take Time(Sec.)	0.6	0.7	0.8
空循環時間 Dry Cycle Time(Sec.)	4.0	4.2	4.0
驅動方式 Drive System	氣壓 Pressure		氣壓 Pressure
工作氣壓 Working Air Pressure (MPa)	0.5-0.7		
空氣消耗量 Air Consumption(L/cycle)	7.6	7.7	13
電源消耗量 Power Consumption(Kw)	0.2	0.2	2.2
電源 power	AC220V50/60HZ		
淨重 Weight (kg)	42	43	47.5

## 側取型機械手

### Swing Arm Robot- (for Vertical IMM use)



機型 Model	L-550(V)	L-650(V)
手臂型式 Type	單載 Single-stage	
適用射出成型機 I.M.M. Range(TON)	12-150	80-150
側入行程 Vertical Stroke(mm)	550	650
上下行程 Side-entry Stroke(mm)	150	150
旋出角度 Swing Angle(°)	50-90	50-90
爪旋角度 Gripper Rotation Angle(°)	180	180
最大荷重 Max. Load(with tool)(kg)	2	2
最小取出時間 Min. Take Time(Sec.)	0.8	0.9
空循環時間 Dry Cycle Time(Sec.)	4.2	4.4
驅動方式 Drive System	氣壓 Pressure	
工作氣壓 Working Air Pressure (MPa)	0.5-0.7	
空氣消耗量 Air Consumption(L/cycle)	7.6	7.7
電源消耗量 Power Consumption(Kw)	0.2	0.2
電源 power	AC220V50/60HZ	
淨重 Weight (kg)	38	39

注: 產品規格若有變更, 恕不另行通知 We reserve right to change specifications without prior notice.