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CHUM YUAN CO., LTD.

# 高速鑽尾螺絲成型機

## Self-Drilling Screw Forming Machine

### 特性:

- 本機臺采模組化設計，維修保養容易。
- 以PLC可程式控制器監控，LED顯示故障位置，故障排除迅速容易。
- 機體結構以FCD-60鑄鋼鑄成，高剛性及耐磨性，精度性。
- 各回轉及滑動元件均經適當熱處理，耐磨性佳。

### Features:

- Table is designed by die set for easy and simple maintenance.
- Monitored by Program Logical Control (PLC) system, trouble displayed on the board by Light Emitted Display (LED) system so the trouble can be easily controlled.
- Body is made of FCD-60 cast steel with high rigidity, excellent wear-resisting and precision.
- Rotary and sliding components on each part have been Processed under heat-treatment for good wear-resisting.



### 規格 Specification: ST1405

傳動方式 Transmission	日內瓦機械 Geneva organization
馬力 Horsepower	10HP(雙頻器Inverter)
使用馬達 Motor applied	7.5HP(6P)
速度 Speed	120~450 rpm (MAX:500)
控制方式 Control	PLC 可程式控制(Program Logical Control) LED 故障顯示(Light Emitted Display)
製造能力 Production ability	dieø2.8~5.2 (#6~#14) length 9.5~125 mm
外觀尺寸 Dimension (LXWXH)	L1900 × W1400 × H1600 mm
機械重量 Machine weight	2200 kg

# 高速鑽尾螺絲成型機

## Self-Drilling Screw Forming Machine

### ST1606機種使用分割器之優良特性:

- HRc60° 研磨精密，滾動磨擦磨耗少，曲綫完美零背隙。
- 高速無噪音、無能源浪費。
- 高精度、原點復歸，絕對同步。
- 結構簡單螺旋驅動，絕少故障。

### Features of Model ST1606 with Index:

- HRc 60° precise grinding, rolling friction, low consumption, with beautiful curve and zero-defect.
- High speed, noiseless, and energy-saving.
- High precision, original position return, and absolute synchronizing.
- Simple structure, screw driving, and low rate of malfunction.



### 規格 Specification: ST1606

傳動方式 Transmission	分割器 Index
馬力 Horsepower	15HP(雙頻器Inverter)
使用馬達 Motor applied	10HP(6P)
速度 Speed	120~520 rpm (MAX:600)
控制方式 Control	PLC 可程式控制(Program Logical Control) LED 故障顯示(Light Emitted Display)
制造能力 Production ability	die $\phi$ 2.8~6.0 (#6~#16) length 9.5~150 mm (MAX:200)
外觀尺寸 Dimension (LXWXH)	L1900 × W1500 × H1800 mm
機械重量 Machine weight	2500 kg

# 高速鑽尾螺絲成型機

## Self-Drilling Screw Forming Machine

### ST1808機種

- 專門製造不銹鋼鑽尾螺絲及超長鑽尾螺絲
- 凸輪曲面設計，在不影響加工成型的作業循環時間下，可延長衝壓成型的時間，而減少空行程時間，達到特佳的運動特性，確保模具使用壽命。

### 使用分割器之優良特性：

- HRc60° 研磨精密，滾動磨擦磨耗少，曲線完美零背隙。
- 高速無噪音、無能源浪費。
- 高精度、原點復歸、絕對同步。
- 結構簡單螺旋驅動，絕少故障。

### ST1808 Features:

- Designed for producing stainless steel self-drilling screws and lengthened self-drilling screws.
- Curved surface design of the transmission cam prolongs screw pressing time and shortens idle-stroke time, not affecting normal operational cycle during processing, thus achieving excellent motion effects and extending the operating life of the screw die.

### Self-Drilling Screw Forming Machine (With Index)

- HRc 60° Precise grinding, rolling friction, low consumption, with beautiful curve and zero-defect.
- High speed, noiseless, and energy-saving.
- High precision, original position return, and absolute synchronizing.
- Simple structure, screw driving, and low rate of malfunction.



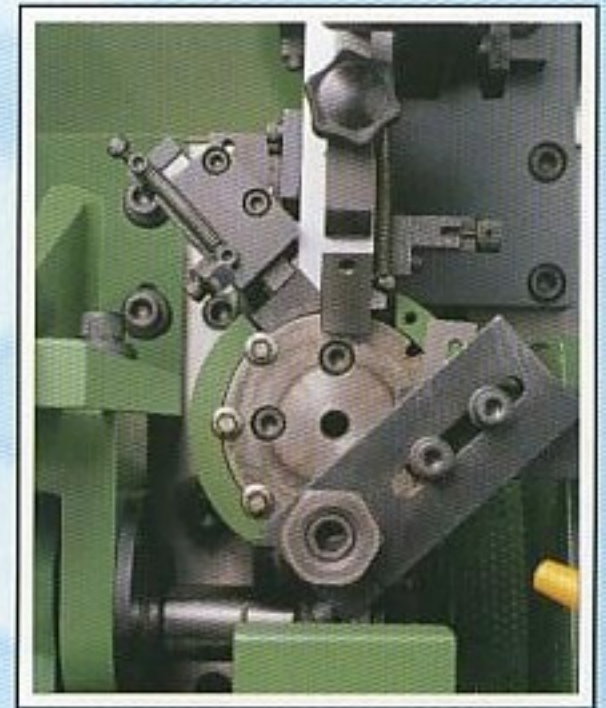
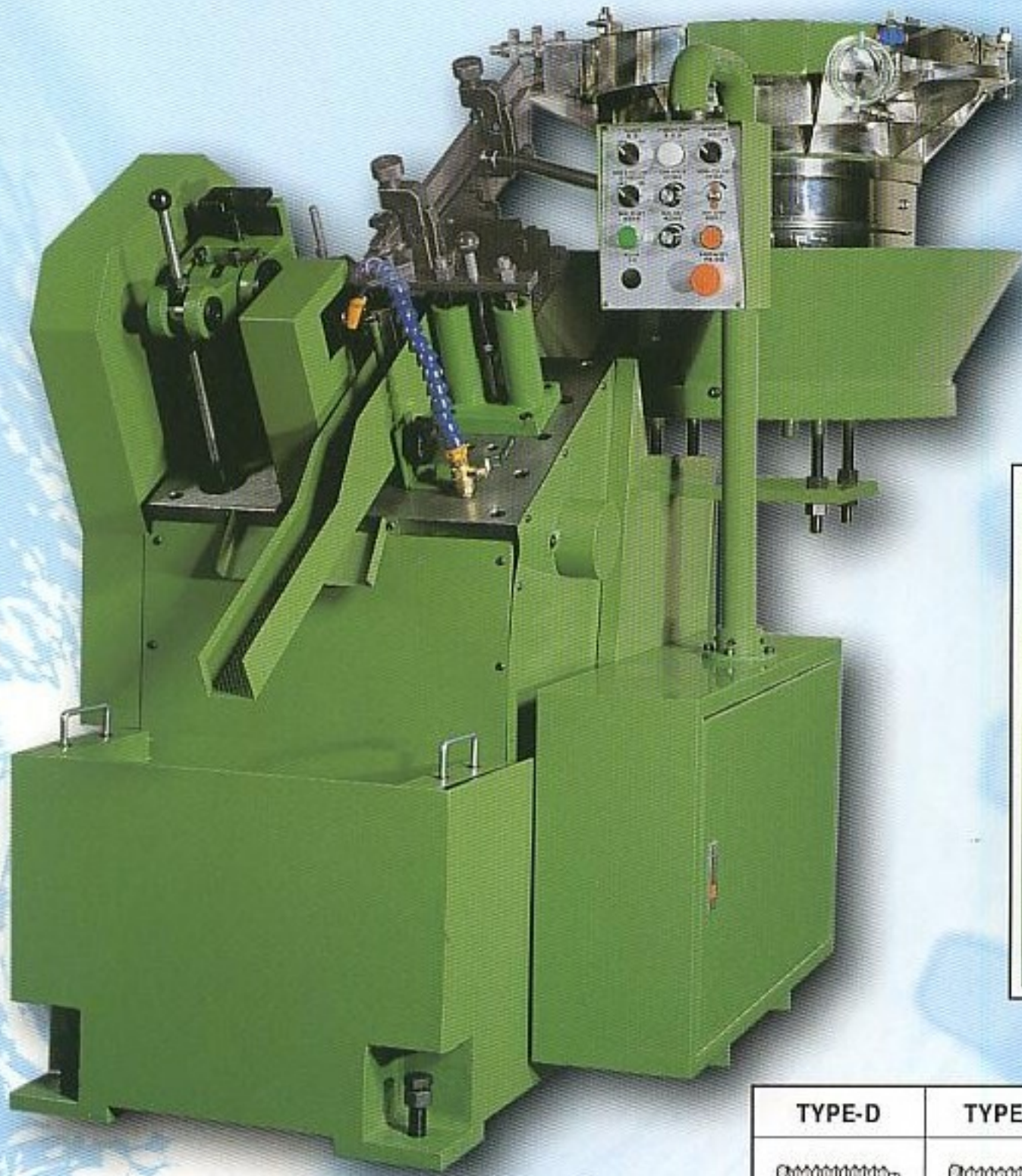
### 規格 Specification: ST1808

傳動方式 Transmission	雙凸輪傳動 Twin cams
送料定位方式 Feeding/positioning	分割器 Index
馬力 Horsepower	15HP(雙頻器Inverter)
使用馬達 Motor applied	10HP(6P)
速度 Speed	45~250 rpm
控制方式 Control	PLC 可程式控制(Program Logical Control) LED 故障顯示(Light Emitted Display)
製造能力 Production ability	dieø2.8~7.0 (#6-#18) length 10~200 mm (Max.370mm 特別定制 For Special Order)
外觀尺寸 Dimension (LXWXH)	L1850xW1950xH1850 mm
機械重量 Machine weight	3500 kg



# 高速螺絲割尾機

## Self-Drilling Screw Point Cutting Machine



**機型 : ST-C100**

TYPE-D	TYPE-23	TYPE-25	TYPE-17

傳動方式 Transmission	分割器INDEX 變頻器 INVERFER
總馬力 Horsepower	約3HP 切刀馬達: 1HP, 3ø, 4P 轉盤馬達: 1/2HP, 3ø, 6P 冷卻馬達: 1/8HP
速度 Speed	120 ~ 550RPM (PCS/min)
制造能力 Production ability	10 ~ 100, ø2.5 ~ ø8.0
外觀尺寸 Dimension (LXWXH)	L1700 x W800 x H1300
機械重量 Machine weight	1000KG
標準配件	工具箱一組, 送料盤 x 2, 特殊心軸 x 1

# 割溝機

## Slotting Machine

### 機械特性:

以往單刀割溝機切溝實出刀方向都會有殘屑夾留在螺絲上，本機特色為利用雙刀具銑削，將第一刀殘留鐵屑消除，以增進螺絲之美觀及附加價值。

### 雙刀塔部

利用凸輪驅動第一刀(上刀)，而以第二刀(下刀)為旋轉中心作左右擺動，使第一刀切割深度成一曲線，再利用第二刀將深度切平，並去除邊屑。(第一刀深度可於左上方之把手調整之。)

### Double-cutter Turret

The first cutter (top cutter) is driven by a cam. The second cutter (bottom cutter) swings from left to right as a rotating center to allow the first cutter to perform curve slotting. The second cutter then trims the slot flat and removes metal chips (the slotting depth of the first cutter can be adjusted by the left top handle).

### Machine Features

Unlike conventional single-cutter Slotting models that usually leave metal chips on the screw at the operation direction after Slotting, this double-cutter model performs milling with the first cutter, while the second cutter removes metal chips left after the previous processing, maintaining screw cleanliness and increasing the added value of the processed screws.



### 割溝機 Slotting Machine

尺寸 Size 型號 Model	A	B	D	適用範圍
1	4.11mm	2.055mm	3.0mm	ø2.2~ø4.8mm
2	5.56mm	2.78mm	4.0mm	ø2.8~ø5.6mm
3	7.8mm	3.9mm	4.0mm	ø4.0~ø8.1mm
4	10mm	5mm	6.0mm	ø4.6~ø9.3mm
5	12mm	6mm	6.0mm	ø5.5~ø11.3mm