

# Straightening Machine



**HOREN**  
INDUSTRIAL CO., LTD.



**Straightening  
Machine**

- Auto Cold Drawing Machine
- Cold Drawing Machine
- Metal Swaging Machine

**矯直機**

- 自動金屬伸拉機
- 金屬伸拉機
- 金屬束頭機

## Straightening Machine

# Main Features

- ✓ Roller adjustment facilitated by position indicator
- ✓ Equipped with inverter for speed changing on various material attributes
- ✓ Able to achieve the straightness of up to 0.10~0.30mm/M

The horizontal Straightening machine uses a multi-roller mechanism to correct and ensure the straightness of metal tubes and rods. It is ideal for the straightening of brass tubes and bars, as well as copper, aluminum and steel tubes and rods. All the rollers are equipped with a roller distance indicator at the base of the handle for convenient adjustment. The simple device allows the operators to record and set the best angle and position between rollers for easy machine configuration. Number scales are also attached to the sloping bars for further reference.

Depending on the composition and condition of the input materials, our straightening machines are capable of achieving the straightness of 0.10~0.30mm/M. The use of a motor inverter provides flexibility to finely adjust the rollers' spinning speed in assistance of achieving the straightness.

## 矯直機

# 3大優點

- ✓ 加裝定位顯示器，提高作業效率與準確度
- ✓ 依不同材料屬性，採用變頻器調整校直所需的速度
- ✓ 最佳可達每米 0.10mm~0.30mm 校直度

ST型矯直機皆為臥式型，主要結構是透過多輪滾動，以對角壓擠方式，使金屬管棒材得以進行直度的校正作業。一般適用於圓形有色金屬管棒材，在伸拉作業之後，進一步加強半成品或成品材料的直線度。機台安裝簡易，在基本配件上，機台輪座把手均加裝定位器，且兩支斜度軸與輪座銜接處皆附有呎表，便於作

業人員參考及記錄每批加工物料，所需調整的間距及角度。因金屬材料結構及組織條件的不同，除了輪座間距及斜度可調整之外，該機台可選擇加裝變頻器，以控制旋轉速度來滿足不同材料的校正需求，最佳結果可達每米0.10~0.30mm校直度。



## Standard Specification and Capacity 標準規格及使用能力

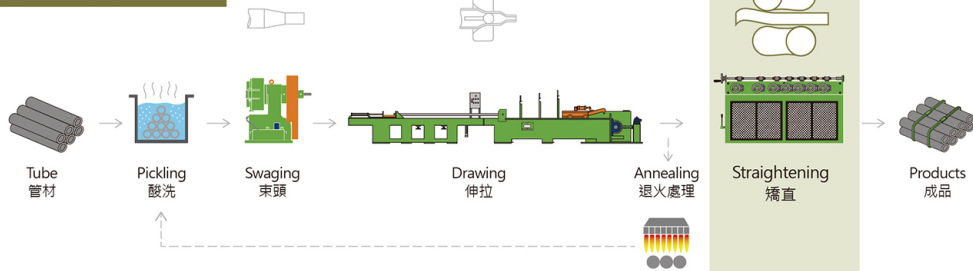
Model 型號		ST0217	ST0215	ST0314	ST0514N	ST1014N	ST1514N	STV1510	ST4012
Applicable material 適用材質 (mm)	Non-ferrous 非鐵(銅/鋁)	Tube 管 Rod / Bar 棒 Ø2.3~6	Ø3~8	Ø5~15	Ø10~30	Ø15~65	Ø30~100	Ø15~65	Ø50~150
	Steel / Alloy 鋼鐵 / 合金材料			Tube 管 Rod / Bar 棒	Ø5~12	Ø10~25	Ø15~50	Ø30~75	Ø15~50
				Ø5~12	Ø10~30	Ø15~65	Ø30~100	Ø15~65	Ø50~125
				Ø5~10	Ø10~20	Ø15~40	Ø30~65	Ø15~40	Ø50~75
Motor 馬力		2HP	2HP	3HP	5HP	10HP	15HP	7.5HP x 2	40HP
Roller 輪子 (mm)		Ø48(45) x 40L	Ø54(50) x 50L	Ø68(62) x 76L	Ø88(80) x 100L	Ø128(114) x 150L	Ø176(155) x 200L	Ø149(135) x 190L	Ø240(218) x 300L
Speed (per min) 每分鐘速度 50Hz		110M	125M	75M	55M	65M	50M	15~62M	10~40M
Reducer 減速機		-	-	HS280	H301	HS303	HS305	Gearing reducer	Gearing reducer
Entry Height 入料高度 (mm)		780	780	795	795	900	900	1,040	1,200
Dimension 機台尺寸 (L x W x H) (mm)		1,150 x 800 x 920	1,150 x 800 x 920	1,250 x 850 x 950	1,800 x 1,250 x 1,050	2,400 x 1,500 x 1,200	3,400 x 2,300 x 1,250	3,200 x 1,800 x 2,000	4,660 x 2,980 x 2,000
Weight 重量		750 kg	750 kg	800 kg	1,750 kg	3,800 kg	8,500 kg	6,000 kg	30,000 kg
Feeding & Collecting 送料及收料		RT/RC	RT/RC	RT/RC	RT/RC/MT/AT/AF/AC	RT/RC/MT/AT/AF/AC	RT/RC/MT/AT/AF/AC	AT/AF/AC	AT/AF/AC
Similar model 相似款		-	-	-	ST0514NC	ST1014NC ST1014W	ST1015NC	-	-
Pre-conditions 設定條件		500	500	800L/18	1000L/10-50	1000L/15-80	1000L/25-140	1000L/15-90	1000L/30-183

※ Above specifications and dimensions may subject to change without prior notice  
以上規格、尺寸會因需求而有所調整設計，恕不另行通知。

# Production Flowchart 生產流程

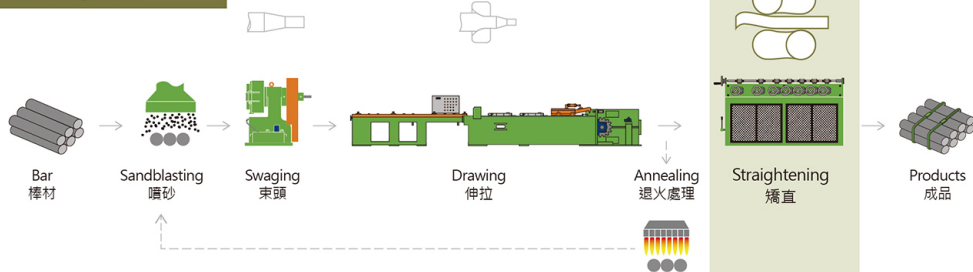
## Tube Drawing Process

### 金屬管材生產



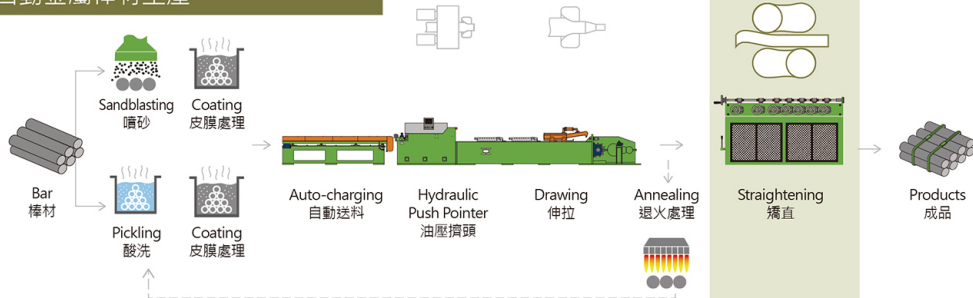
## Bar Drawing Process

### 金屬棒材生產



## Automatic Bar to Bar Drawing Process

### 自動金屬棒材生產



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