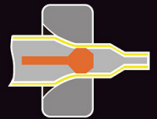


www.horenco.com.tw

Cold Drawing Machine



HOREN
INDUSTRIAL CO., LTD.



Cold Drawing Machine

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

金屬伸拉機

- 矯直機
- 自動金屬伸拉機
- 金屬束頭機

Cold Drawing Machine

Main Features

- ✓ Versatile design with a wide range of models
- ✓ Linear workflow with automatic lifting and feeding system
- ✓ Adjustable dice holder for straightness and consistency

Our Cold Drawbench is a chain-type machine with a very versatile design. It can be used for a wide range of metal tubes and bars that specifically require re-sizing, precision and strict tolerance for industrial applications. Materials can be round, hexagonal, square, or even profile tubes and bars. Apart from making the outer or inner surface smoother, the cold drawing process also shapes the material to the required diameter and wall thickness. In addition to the standard model, the design of partial automation includes a pneumatic mandrel lifting and forward system, tube pusher, and discharging arms that can be optionally equipped to drawbench for better efficiency.

With easy installation, the SA models can be greatly modified according to production line requirements. Our diverse range of cold drawing machines excels at the precision drawing of a wide range of brass, copper, aluminum, and steel tubes.

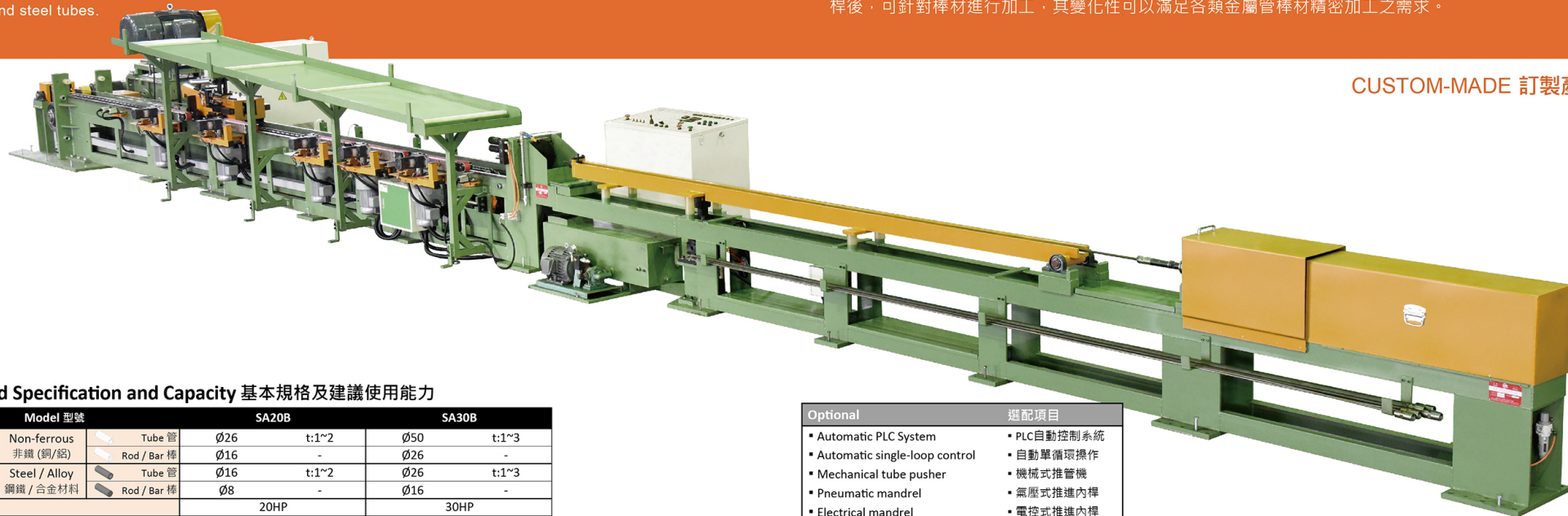
金屬冷伸拉機

3大優點

- ✓ 氣壓式內桿進料系統，單鍵式操作設計
- ✓ 可調式模板設計，易調整拉拔直度
- ✓ 多元樣式設計靈活調配，滿足量產及精密加工需求

SA型鏈條式冷伸拉機，規格及樣式多元，適用於圓形、六角形、四方形及各類異形金屬管棒材，基本款機台可加裝內桿段，配合內桿模具的使用進行管材內外徑加工。一般金屬材料因加工需求不同，可藉由模具設計控制材料的外觀、尺寸及管壁厚度，其加工過程屬精密抽拉製程之一。另外，在客製化款式上可搭配半自動控制，氣壓式內桿升降及推管料設計，簡化操作流程，加上下料手臂機組，使收料作業自動化，減輕操作人員在整體製程中卸取物料的負擔。

該款機台除了安裝容易外，並可針對特定生產製程，調整周邊輔助配備，管類機款在卸除後段內桿後，可針對棒材進行加工，其變化性可以滿足各類金屬管棒材精密加工之需求。



CUSTOM-MADE 訂製產品

Standard Specification and Capacity 基本規格及建議使用能力

Model 型號		SA20B		SA30B		
Applicable material 適用材質 (mm)	Non-ferrous 非鐵 (銅/鋁)	Tube 管 Rod / Bar 棒	Ø26 Ø16	t:1~2 -	Ø50 Ø26	t:1~3 -
	Steel / Alloy 鋼鐵 / 合金材料	Tube 管 Rod / Bar 棒	Ø16 Ø8	t:1~2 -	Ø26 Ø16	t:1~3 -
Motor 馬力	20HP			30HP		
Spherical Dice Case Size 半弧形模座尺寸	JIS 100/125/70 200F-20RC-0208T			JIS 125/145/100 250F-25RC-0510T		

Model 型號		SA50B		SA75B		SA100B		
Applicable material 適用材質 (mm)	Non-ferrous 非鐵 (銅/鋁)	Tube 管 Rod / Bar 棒	Ø75 Ø50	t:1~4 -	Ø120 Ø75	t:1~5 -	Ø150 Ø100	t:1~6 -
	Steel / Alloy 鋼鐵 / 合金材料	Tube 管 Rod / Bar 棒	Ø50 Ø35	t:1~4 -	Ø75 Ø60	t:1~5 -	Ø100 Ø80	t:1~6 -
Motor 馬力	50HP			75HP/100HP		100HP		
Spherical Dice Case Size 半弧形模座尺寸	JIS 145/175/215 300F-30RC-20T			JIS 175/230/250 400F-40RC-30T		JIS 230/315 600F-50RC-40T		

※ The specification and applicable size range are subject to updates, and the model's capacity is for the initial evaluation only. Custom-made models are designed according to the material characteristic, deformation ratio and tolerable pulling force. 以上規格、尺寸供初步評估及參考，實際能力須依材料的特性、可承受變形率，以及可容許拉力強度，提供客製化機款。

Optional	選配項目
Automatic PLC System	PLC自動控制系統
Automatic single-loop control	自動單循環操作
Mechanical tube pusher	機械式推管機
Pneumatic mandrel	氣壓式推進內桿
Electrical mandrel	電控式推進內桿
Inverter	變頻器
Variable speed gearbox	分段變速齒輪箱
Discharging arms	下料臂機組
Linear guideway	線型滑軌

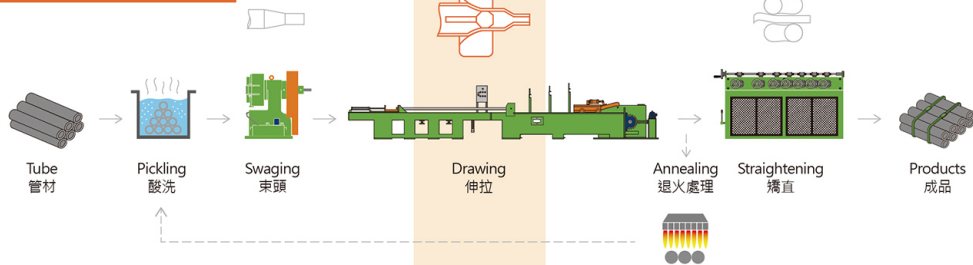
Type of Operation 運作模式	Lifting 內桿升降	Feeding 內桿送料	Loading 入料	Mandrel Mode 內桿模式
Z Model 型	◎	◎	N/A	Manual spring mandrel 傳統手動
C Model 型	●	●	○	Pneumatic mandrel 氣壓缸推進
E Model 型	●	●	○	Electrical control mandrel 電控推進
FA Model 型	●	●	●	Pneumatic or Electrical mandrel 氣壓缸推進

◎ Manual 手動 ● Automatic 自動 ○ Optional 選配

Production Flowchart 生產流程

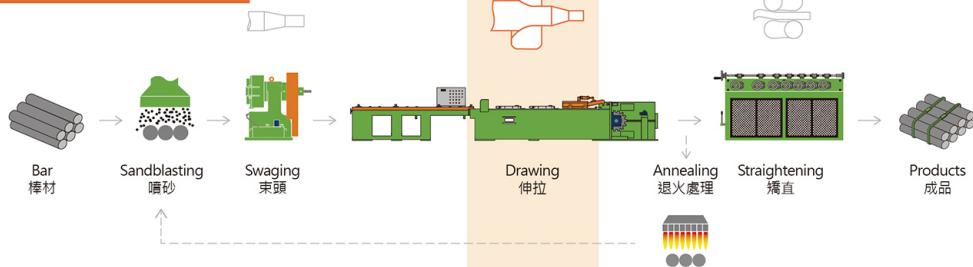
Tube Drawing Process

金屬管材生產



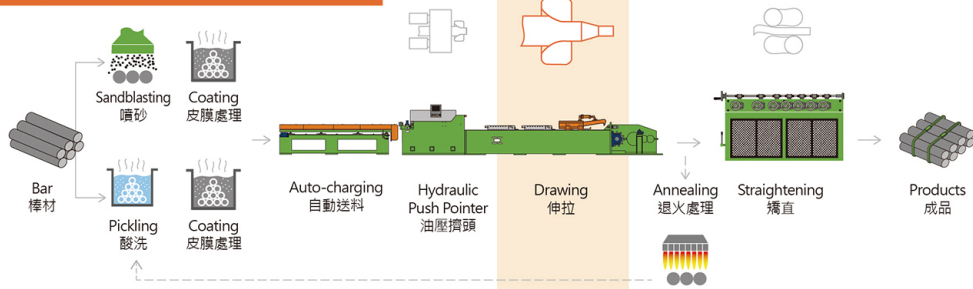
Bar Drawing Process

金屬棒材生產



Automatic Bar to Bar Drawing Process

自動金屬棒材生產



賀聯工業股份有限公司
HOREN INDUSTRIAL CO., LTD.

437台中市大甲幼獅工業區東三街2號
No. 2, Dongsan St., Dajia Youth Industrial Park, Taichung 437, Taiwan
 ■ TEL : +886-4-26817377 ■ horen@horenc.com.tw
 ■ FAX: +886-4-26817387 ■ www.horenc.com.tw