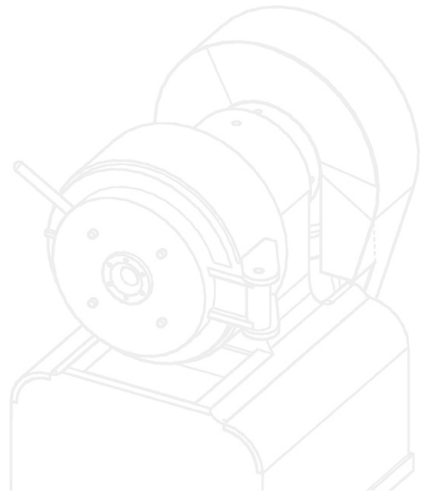


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Metal Swaging Machine



HOREN
INDUSTRIAL CO., LTD.

**Metal Swaging
Machine**

- Straightening Machine
- Auto Cold Drawing Machine
- Cold Drawing Machine

金屬束頭機

- 矯直機
- 自動金屬伸拉機
- 金屬伸拉機

Main Features

- ✓ Significant material saving with minimum chips removal
- ✓ Processes steel & non-ferrous materials with no temperature restriction
- ✓ Easy replacement on spare parts

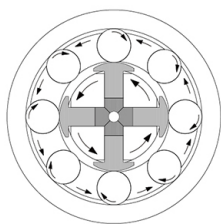
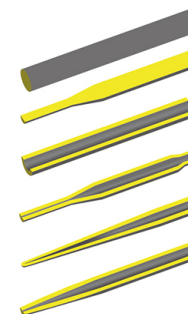
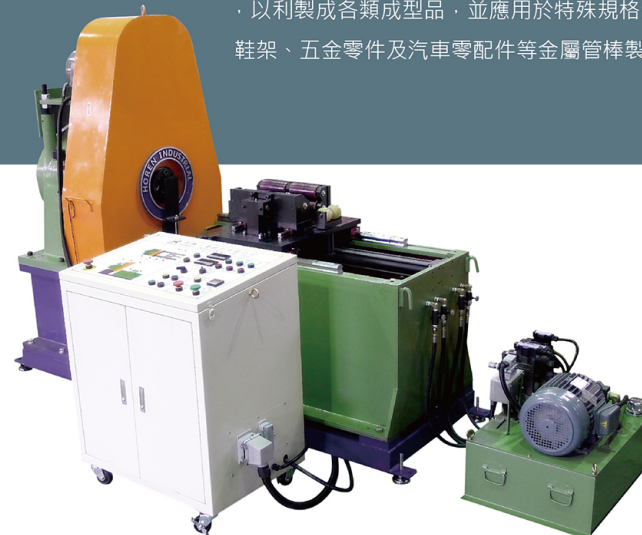
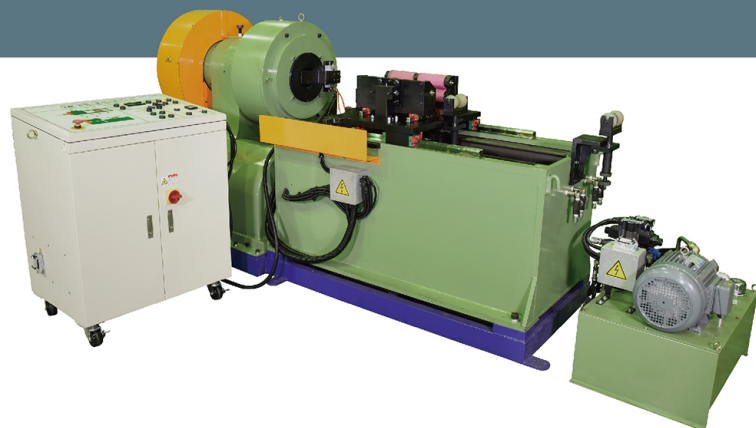
The Swaging machine is commonly used to reduce or forge round workpieces into a smaller diameter or produce a taper for various applications. The rotary mechanism can reduce the material diameter to enable the tube to be fed through the die and then pulled by the drawing car. Our standard models are used with four-piece dies, which are suitable for the shaping of precious metal tubes and rods.

This machine is very easy to install and operate, and the sloping angle of swaging dies can be designed according to customer specifications. It is widely used in the manufacture of semi-finished products and consumer goods such as lighting parts, furniture parts, bicycle racks, hardware components, and automotive parts.

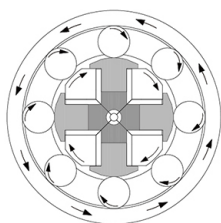
3大優點

- ✓ 加工速度快，材料耗損減少
- ✓ 無溫度限制，同時適用於非鐵及鋼鐵材料
- ✓ 應用層面廣，零件耗材更換容易

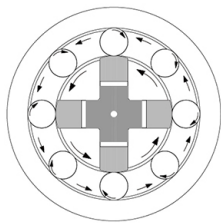
束頭機一般適用於冷伸拉加工前，以鍛銼方式將金屬管棒材料前端束小，又稱打頭機，其主要功能能使材料穿過各類型伸拉模具，作為精抽加工使用。現有機款一律採四片模具的旋鍛模式，適用於金屬管線材料。除簡易安裝及操作之外，模具可依照各機型設計規範內，設計訂製特殊尺寸，以利製成各類成型品，並應用於特殊規格金屬筆尖、傢俱燈飾、腳踏車鞋架、五金零件及汽車零配件等金屬管棒製成品。



SM03



SM05



SM15

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

Model 型號		SM01	SM02	SM03	SM15	SM15AP	SM30AP	SM05AP
Applicable material 適用材質 (mm)	Non-ferrous 非鐵 (銅/鋁)	Ø1~3	Ø2~8 t:0.4~1.0	Ø5~25 t:1.0~2.5	Ø10~60 t:1.0~5.0	Ø15~50 t:1.0~5.0	Ø30~90 t:1.0~8.0	Ø10~45 t:1.0~5.0
	Steel / Alloy 鋼鐵 / 合金材料		Ø2~5 -	Ø3~15 -	Ø10~35 -	Ø15~35 -	Ø30~75 -	Ø10~30 -
Tube 管	Ø2~6 t:0.4~1.0		Ø3~15 t:1.0~2.0	Ø10~45 t:1.0~4.0	Ø15~40 t:1.0~4.0	Ø30~80 t:1.0~5.0	Ø10~38 t:1.0~4.0	
Rod / Bar 棒	Ø2~4 -		Ø3~12 -	Ø10~30 -	Ø15~30 -	Ø30~60 -	Ø10~25 -	
Motor 馬力		1HP x 4P	2HP x 4P	3HP x 4P	15HP x 6P	15HP x 6P	30HP x 6P	7.5HP x 6P + 1HP x 6P
Reduction range 加工範圍 (mm)*		0.3~1.5	tube 1~2.5 rod 0.3-1.5	tube 3~8 rod 1~4	tube 5~10 bar 3~5	tube 5~10 bar 3~5	tube 8~15 bar 3~8	tube 3~8 bar 1~4
PRM 轉速 50Hz		730	320	320	196	196	140	230
Size and number of dice 模具尺寸(mm)		40L 18W	35L 20W	60L 25W	125L 60W	125L 60W	250L 80W	100L 40W
Type of dice 模具型式(pcs)		2	2	4	4	4	4	4
Entry size 入口尺寸 (mm)		7	8	30	65	65	105	46
Entry height 中心高(mm)		625	720	835	925	1,045	925	1,050
Dimension 機台尺寸 (L x W x H) (mm)		500 x 450 x 715	650 x 540 x 960	900 x 700 x 1,140	1,120 x 1,150 x 1,300	3,800 x 1,150 x 1,400	4,000 x 1,100 x 1,600	3,300 x 1,450 x 2,000
Weight 重量		130kg	320 kg	590 kg	1,850 kg	3,150kg		3,400kg
Automatic loading 自動送料		X	X	X	X	○	○	○
Extension model 延伸款					SM15B SM15L	SM15MAP		

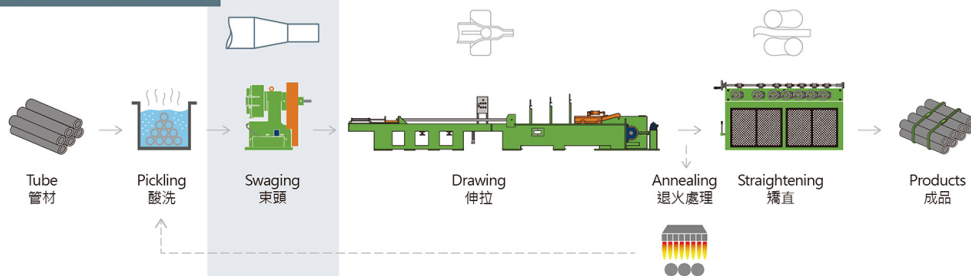
※ The above specification and dimension are subject to change without prior notice 以上規格、尺寸會因需求而有所調整設計，恕不另行通知。

*The range is for reference only. The reduction ratio may be varied depending on the size, composition, and tensile strength of materials. 加工範圍僅供參考，實際減徑比例需依照材料尺寸、材質及抗拉強度而定。

Production Flowchart 生產流程

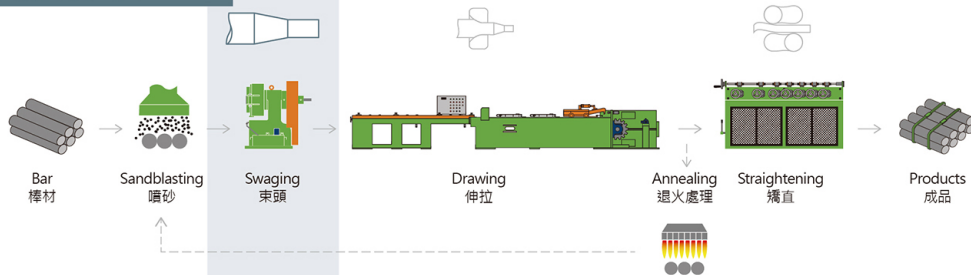
Tube Drawing Process

金屬管材生產



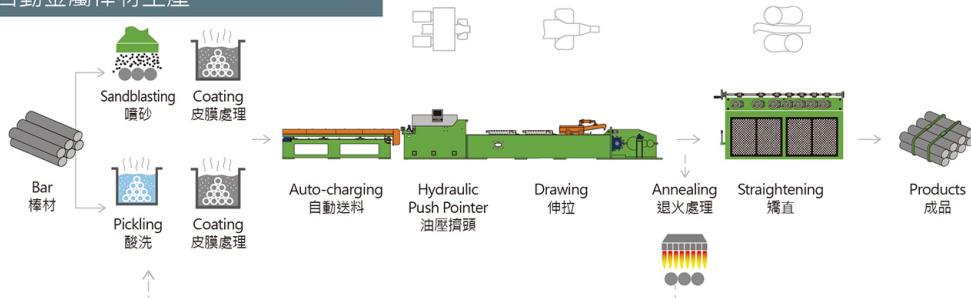
Bar Drawing Process

金屬棒材生產



Automatic Bar to Bar Drawing Process

自動金屬棒材生產



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