

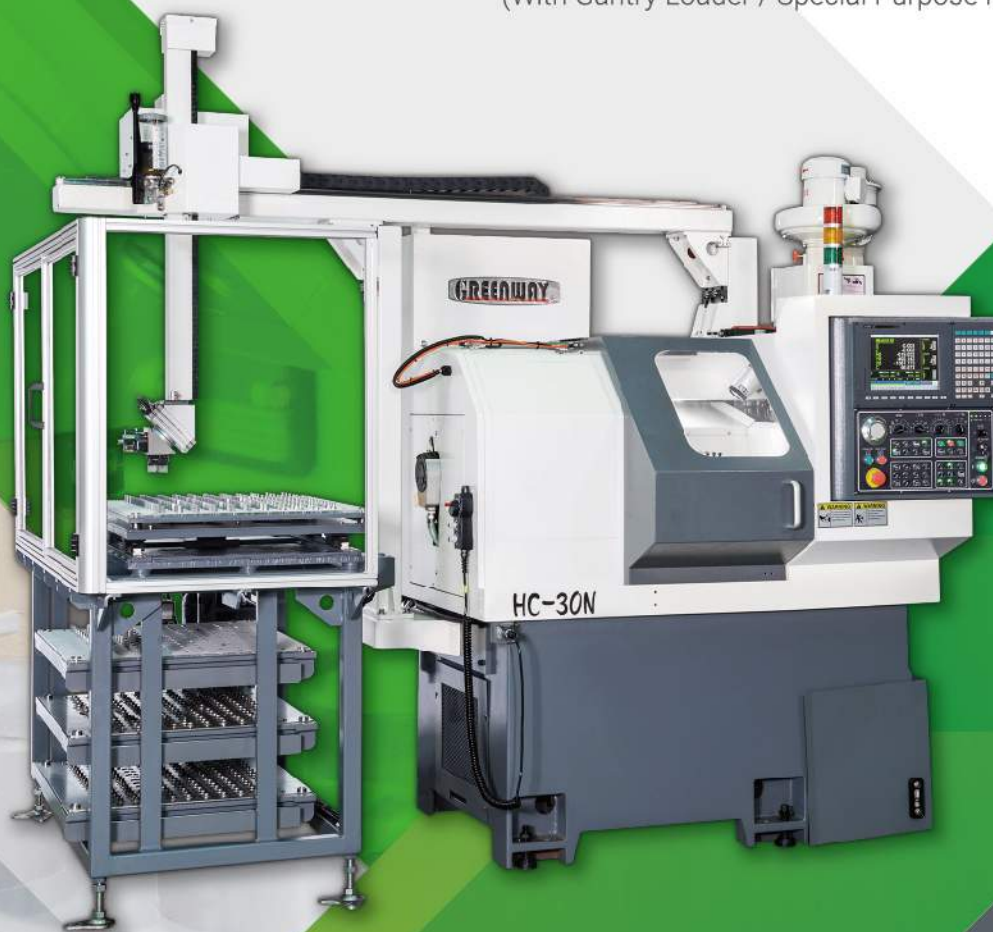
GREENWAY[®]

PRECISION CNC LATHE

HC-30N & HC-30 & JYN-42

精密臥式數控車床(門型機械手/專用機)

Precision Horizontal CNC Lathe
(With Gantry Loader / Special Purpose Machine)



www.cnc-lathe.com

JARNG YEONG ENTERPRISE CO., LTD.

HC-30/HC-30N/JYN-42

CNC LATHE WITH GANTRY LOADER

HC-30/HC-30N/JYN-42 搭配門型機械手

數控車床搭配門型機械手，做自動送料，雙軸伺服控制，高速度、高精度，提高生產效能與質量，節省人力成本，實現高速化作業，無論白天或夜晚時間，都能不間斷連續加工。

CNC lathe of Greenway can be equipped with gantry loader to make single workpiece auto feeding, and double axis servo control. It enhances the production efficiency and makes quality level up; meanwhile, it saves labor cost and realizes the high-speed operation. No matter daytime or nighttime, it can continuously work.



▲ HC-30



▲ HC-30N



▲ JYN-42

產品說明 / DESCRIPTION

- ▶ 採雙軸伺服控制，進行單件送料，擁有高速度、高精度的優勢。
Double axis adopt servo control, with superiority in high speed and high precision for single workpiece loading.
- ▶ 可根據客戶毛胚之送料需求，選擇搭配不同形式的供料台。
Can work with different types of feeder station based on customer's feeding requirement on blank materials.
- ▶ 門型機械手置於機台上方，此設計可延長自動送料系統的壽命，並降低耗損成本。
Gantry Loader is on top of machine. The design can extend lifetime of auto loading / unloading system and decrease the consumption cost.
- ▶ 門型機械手採用手持式人機介面(選配)，擁有專用掌上型觸控螢幕，介面明確，具有防呆設計，教導式教學。
Gantry Loader uses remote control interface(opt), owing professional handheld touchscreen with clear interface, fool-proof design, and guide with teaching.
- ▶ 可配合製程規劃彈性運用，連結組成各式生產線。
Various possibilities for production line lineage according to process plan.
- ▶ 若有遠端監控之需求，昌勇亦能提供相關配置協助。
We, GREENWAY can also provide the relative assistance if customer has remote monitoring requirement.

HC-30N SPECIAL PURPOSE MACHINE

HC-30N 專用機

F型 / F-TYPE

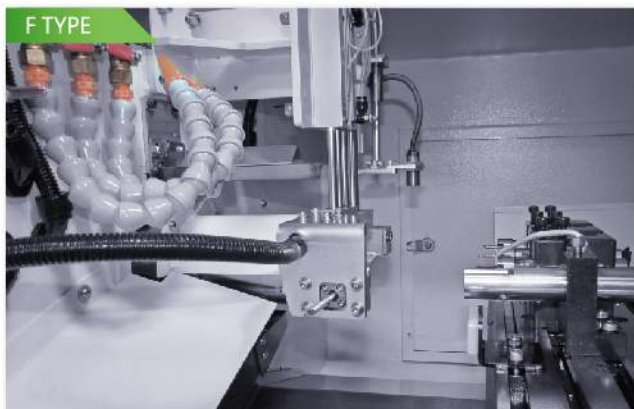
內置式自動上 / 下料專用機

INTERIOR AUTO LOADING / UNLOADING SPM

- ▶ 送料範圍：外徑 $\varnothing 50$ mm、長度35 mm以內。
Its feeding capability is max. O.D. $\varnothing 50$ mm, max. length 35 mm.
- ▶ 可搭配直接式或輔助式氣缸送料機構，配合震動送料桶，自動送料穩定且效率高。
It's available with direct or auxiliary cylinder feeding mechanism and vibration barrel, which is high auto feeding efficiency.



▲ F-type



J型 / J-TYPE

圓棒式自動上／下料專用機

ROUND BAR AUTO LOADING/UNLOADING SPM

- ▶ 此機型適用於長軸型工件。
This machine type is suitable for long shaft workpiece.
- ▶ 送料範圍：外徑 $\text{Ø}20\text{ mm}$ 、長度 300 mm 以內，置料槽可放置約300支 $\text{Ø}10\text{ mm}$ 的材料。
Its feeding capability is max. O.D. $\text{Ø}20\text{ mm}$, max. length 300 mm . Material feeding station can accommodate up to about 300 pieces of $\text{Ø}10\text{ mm}$ blank material.
- ▶ 油壓式往復補料，伺服式進料，穩定平順。
It's stable via hydraulic continuous material supplement and smooth by servo feeding.
- ▶ 材料的大小/長度可簡易調整；更換工件只需更換料管與夾頭(或筒夾)即可。
The size and length of material could be easily adjusted. Moreover, it only needs to change feed pipe and chuck (or collet) when changing into different workpieces.



▲ J-type

U型 / U-TYPE

外置式自動上／下料專用機

EXTERNAL AUTO LOADING / UNLOADING SPM

- ▶ U型的送料機構安裝於機台外，可避免油漬或鐵屑，影響機構。
Its feeding mechanism is placed outside of machine to keep mechanism from chips and oil stain.
- ▶ 送料範圍：外徑 $\text{Ø}6\sim\text{Ø}35\text{ mm}$ 、長度 40 mm 以內。
Its feeding capability is O.D. $\text{Ø}6\sim\text{Ø}35\text{ mm}$ and max. length 40 mm .
- ▶ 調整式滑道適用圓形/六角形工件，配合旋轉氣缸與夾具，可作六角形快速定位。
Adjustable feedingway is suitable for round / hex shape workpiece along with rotary cylinder and fixture, which can make hex material positioning in short time.



U-type ▶

HC-30/HC-30N/JYN-42



▲ 迴轉氣缸含三指定心機械夾爪
Pneumatic rotary air-cylinder with 3-jaw concentric gripper



▲ 翻轉台(選配)
Rotary station(opt)



▲ 平板式供料台
Pallet type work feeder station

搭配門型機械手標準配件 With Gantry Loader Standard Accessories

控制系統 Control Systems

採用雙系統控制，與車床控制器為一體，門型機械手操作為教導模式。
Dual-system control with all in one on lathe controller, Gantry Loader operation is teaching style.

配備串列式通訊系統，更易擴充與安裝，提供良好的同步控制。
Equipped with serial bus communication system, more expandable, easier to install, provide good synchronous control.

供料台類型(擇一) Work Feeder Station Type(Choose One)

平板式供料台 Pallet type work feeder station	震動筒式供料台 Vibration barrel type work feeder station	堆疊式循環供料台 Rotary lifting type work feeder station
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可依據客戶需求，訂做其它型式供料台。
Other types of work feeder station, can depend on customer's requirement to custom-made.

夾爪組合 Jaws Combination

修爪模具 Jaws-modification module	2 SETS	三指定心機械夾爪 3-jaw concentric gripper	2 SETS	標準軟爪(3只/組) Standard soft jaws(3 pcs/set)	2 SETS
氣壓迴轉缸 Pneumatic rotary cylinder	1 SET	頂料機構 Ejector mechanism	1 SET	蓄壓筒 Accumulator container	1 SET

搭配門型機械手選購配件 With Gantry Loader Optional Accessories

手持式控制器 Handheld controller	夾爪吹氣裝置 Jaw air-blow device	翻轉站 Rotary station
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機械規格 / MACHINE SPECIFICATION

機型 MODEL		單位	HC-30	HC-30N	JYN-42
床面上旋徑	Swing over cross bed	mm	300	250	400
最大加工外徑	Max. turning dia	mm	Ø250	Ø110	Ø320
最大加工長度	Max. turning length	mm	150	100	310(選配尾座) 310(Optional tailstock)
主軸迴轉速	Spindle rotating speed	rpm	6,000	6,000	4,500
主軸貫穿孔徑	Bore of spindle	mm	Ø33	Ø33	Ø45
棒材容納直徑	Max. bar feeding dia	mm	Ø30	Ø30	Ø42
主軸馬達	Spindle motor	KW	3.75/5.5(opt)	3.75/5.5(opt)	5.5/7.5(opt)
X軸移動量	X-axis travel	mm	350	300	250
Z軸移動量	Z-axis travel	mm	250	200	400
X軸快速移動	X-axis rapid travel speed	m/min	20	20	20
Z軸快速移動	Z-axis rapid travel speed	m/min	16	20	20
X/Z軸伺服馬達	X/Z-axis servo motor	KW	1	1	1
筒夾規格	Turret type	-	163E	C32/163E(opt)	173E/C44
主軸鼻端	Spindle nose	-	A2-4	A2-4	A2-5
油壓夾頭	Hydraulic chuck	inch	5"	5"	6"
外徑刀尺寸	O.D. turning tool size	mm	□20	□20	□20
內徑刀尺寸	I.D. turning tool size	mm	Ø20	Ø20	Ø20
切削液幫浦	Cutting coolant pump	HP	1	1	1
切削液容量	Cutting coolant volume	L	120	85	120
軌道型式	Guideway type	-	硬軌 Box guideway 線軌 Linear guideway(opt)	硬軌 Box guideway	硬軌 Box guideway
門型機械手 Gantry Loader					
橫移軸行程	Horizontal-axis travel	mm	1,985	1,800	1,985
上下軸行程	Up/down-axis travel	mm	740	680	740
橫移軸速度	Horizontal-axis speed	m/min	90	90	90
上下軸速度	Up/down-axis speed	m/min	100	100	100
軸向驅動器/馬達	Axis servo driver/motor	W	400	400	400
工件荷重能力	Workpiece load capacity	kg/pc	3	3	3
搭配門型機械手 With Gantry Loader					
機器尺寸(大約值)	Approx. machine size	mm (LxWxH)	2800 x 1450 x 2350	2650 x 1550 x 2300	3200 x 1500 x 2400
機器淨重(大約值)	Approx. net weight	KGS	2400	2100	2800

本公司產品規格/設計/特性，均不斷研究改進，如有變更，不再另行通知。

All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.

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