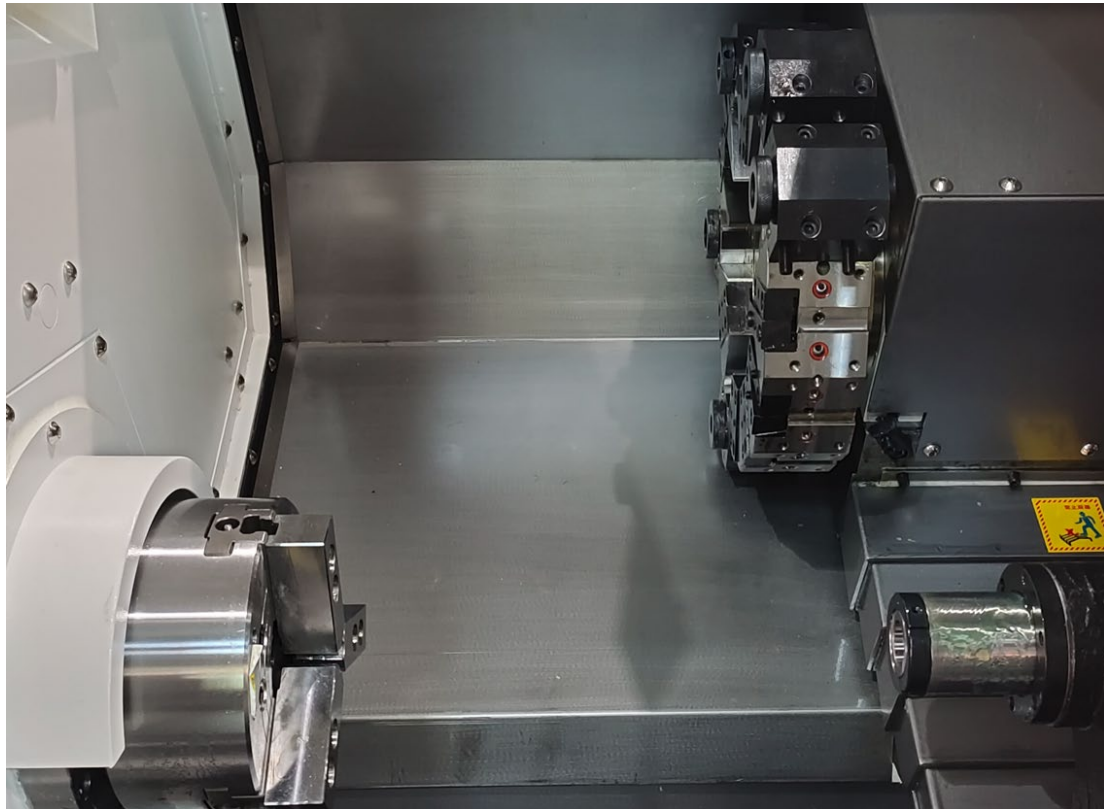


L-25H/L-35H High Precision CNC Horizontal Lathe





Model L-35H CNC horizontal lathe is a coordinate with two-axis and semi-closed-loop . The absolute value encoder is installed inside the servo motor, so there is no accumulated error, no memory, no need to find the reference point, and the position information will not be lost when the power is cut off.

Base: The machine is 30° slant bed, which has the advantages of compact structure, high rigidity, smooth chip removal and convenient operation.

The advantages of compact structure, high rigidity, smooth chip removal, easy operation, etc.; the guideway type is rolling guideway, and the drive part adopts high-speed silent ball screw, which has the advantages of fast speed, low heat generation and high positioning accuracy.

Spindle: The main drive system of this machine adopts high performance servo motor to drive the spindle rotation through belt, the spindle speed range is 0-4000r/min.

Turret: This machine tool adopts servo motor, with fast tool change speed and high reliability.

Tailstock: The machine adopts hydraulic sleeve type tailstock with live top structure, high precision, high rigidity and reliable performance.

Drive: The longitudinal and transverse drive adopts FANUC high performance servo motor, with high positioning accuracy, flexible and reliable movement.

System: Equipped with high performance FANUC Oi-TF PLUS (5) CNC system, β i series high performance AC spindle motor and servo motor to ensure the stability of the machine control, but also to ensure the CNC machining functions and auxiliary functions required by users.

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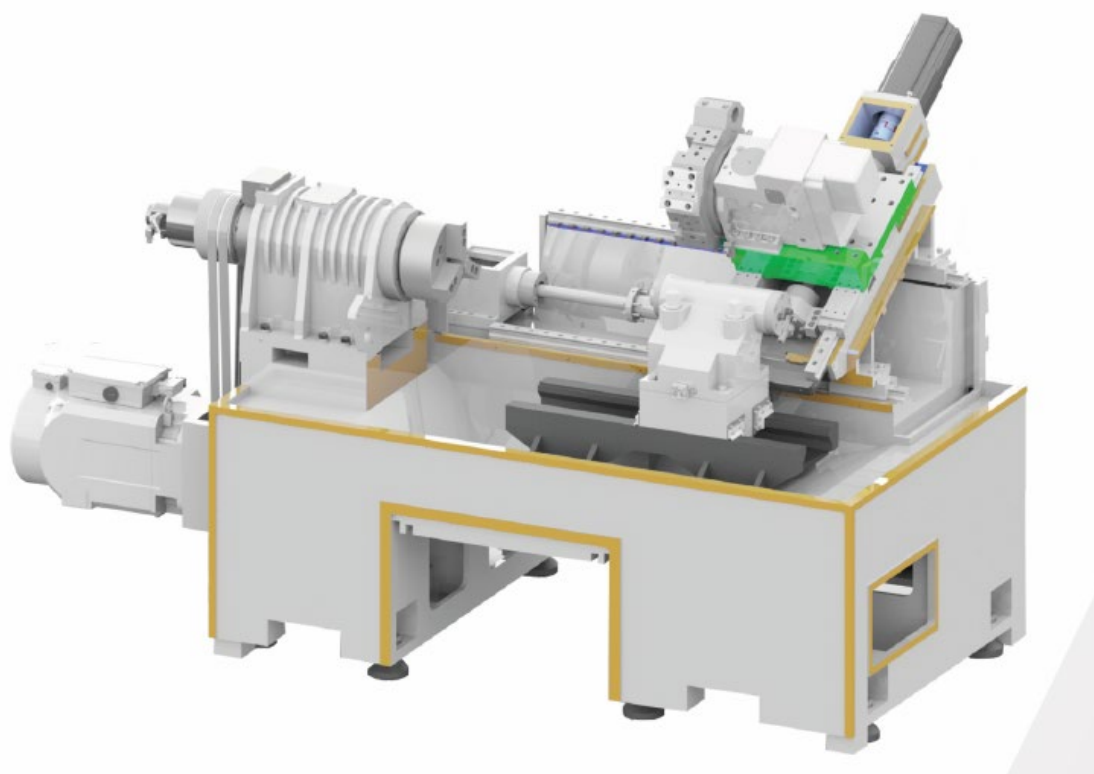
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Tailstock	Tailstock type	Hydraulic Tailstock	Hydraulic Tailstock	Hydraulic Tailstock	Hydraulic Tailstock	Hydraulic Tailstock	Servo tailstock	Hydraulic Tailstock	Hydraulic Tailstock
	Tailstock taper	MT 4#	MT 4#	MT 4#	MT 4#	MT 4#	MT 5#	MT 4#	MT 5#
	Tailstock sleeve travel(mm)	100	100	100	100	100	/	100	150
	Max. movement (mm)	500	500	500	500	500	780	500	1000
Positioning accuracy	X axis(mm) (Total travel)	0.006	0.006	0.006	0.006	0.006	0.008	0.008	0.008
	Y axis(mm) (Total travel)	/	/	/	/	/	0.008	/	/
	Z axis(mm) (Total travel)	0.008	0.008	0.008	0.008	0.008	0.010	0.010	0.010
Repeatable positioning accuracy	X axis(mm) (Total travel)	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	Y axis(mm) (Total travel)	/	/	/	/	/	0.004	/	/
	Z axis(mm) (Total travel)	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Other	control system	FANUC Oi TF(5)	FANUC Oi TF(5)	FANUC Oi TF(5)	FANUC Oi TF(5)	SIEMENS 828D	SIEMENS 828D	FANUC Oi TF(5)	FANUC Oi TF(5)
	Machine weight(kg)	3500kg	3500kg	3600kg	3350kg	3800kg	5500kg	3800kg	4800kg
	Floor space L*W*H(mm)	2498×2385×1675	2498×2385×1675	2498×2385×1675	3000×2385×1675	2598×2385×1750	4040×2000×2000	2598×2385×1750	4060×1890×1750
	Chip conveyor type	chip rear out	chip rear out	chip rear out	chip rear out	chip rear out	chip right out	chip rear out	chip right out



Main machine standard parts

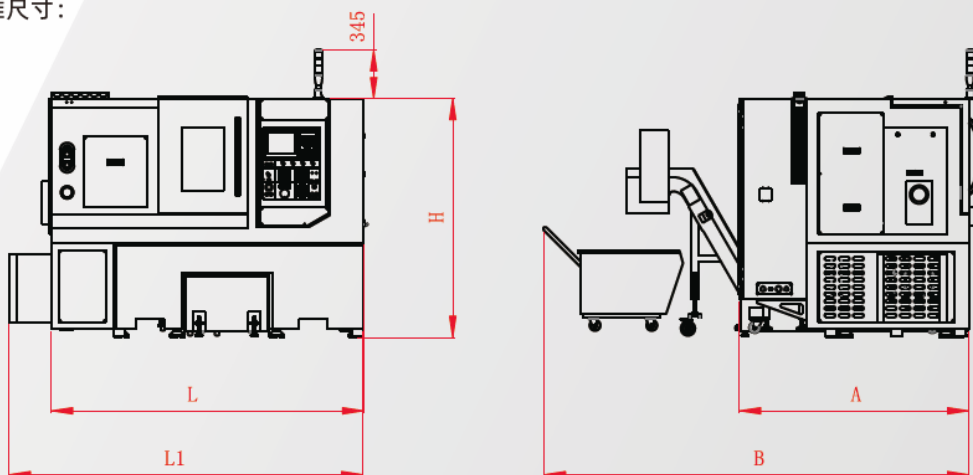
NO.	name	Brand/Detail
1	control system	FAUNC Oi—TF PLUS (5)
2	Drive and axis motor	FAUNC β i series
	Spindle motor	FAUNC β i series
3	Spindle	RIYO
4	Spindle bearing	NSK
6	X/Z axis Ball screw	PMI/HIWIN
7	X/Z axis guide way	PMI/HIWIN
8	rotary cylinder	Lu Gong/Korean SEOAM/Qian Dao
9	Hydraulic 3-jaw chuck	Lu Gong/Korean SEOAM/Qian Dao
10	Cabinet heat exchanger	Tongfei, China
11	Automatic lubrication system	SKF/Baiyuan
12	Hydraulic station system	Gaochang, China
13	12-station servo turret	Chinese Taiwan Yinlong/Yaxing
14	Belt	USA
15	Pump	Lurka
16	3-colour light	China
17	Main electrical element	Schneider

STANDARD CONFIGURATION:

- FANUC 0I-TF control system
- FANUC spindle servo motor
- Hollow hydraulic 3-jaw chuck
- 12-station servo turret
- Cooling system
- Cabinet heat exchanger
- Automatic lubrication system
- chip conveyor
- hydraulic tailstock

Machine layout

标准尺寸:



设备型号	L	L1	H	A	B
L-25H/L-25C	2200	2498	1682	1620	3018
L-35H	2200	2498	1682	1620	3018
L-45H	2300	2625	1677	1705	2987

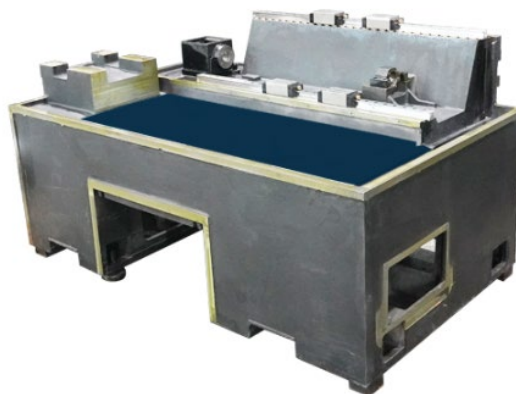
The machine detail description and feature

NEW full close outlook ;
High hardness glass window;
Safe switch moving door;

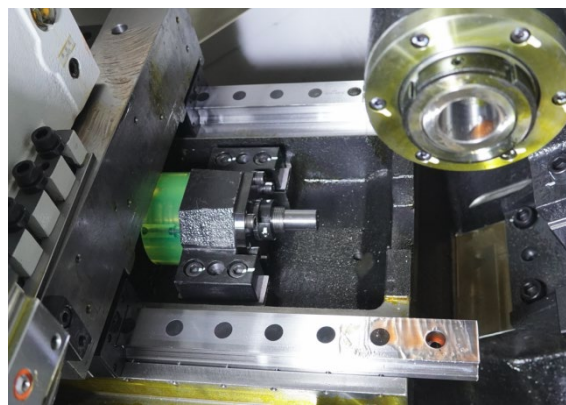


30° slant bed for casting.

all casting go through a long time of natural aging treatment, remove internal stress after casting final machining, ensure precision lasting and stable.



X/Z axis Linear guide,



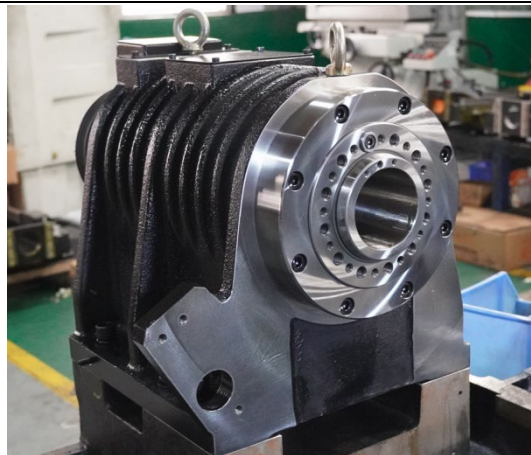
X/ Z axis use C3 precision ball screw with feedrate 30m/min, position 0.003mm, long double nut pre-tightening, ensuring excellent positioning accuracy



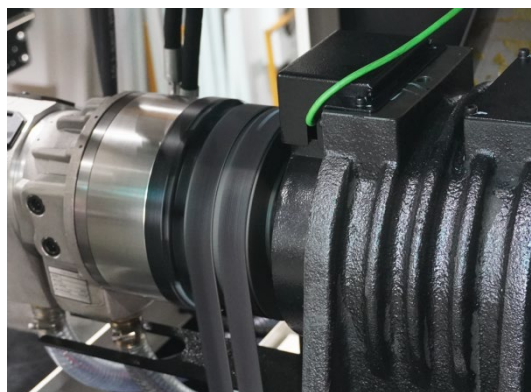
C axes use high precision encoder for position feedback to improve feed positioning accuracy.



spindle speed range is 0-4000r/min
spindle within runout 0.003mm.

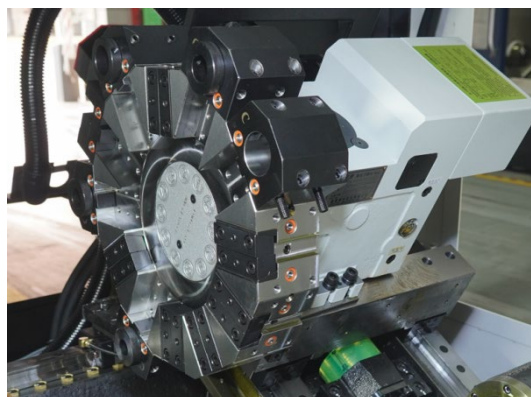


The spindle equipment high precision magnetic gate encoder, reduce measurement error.
Belt type Mechanical spindle, more powerful torque.



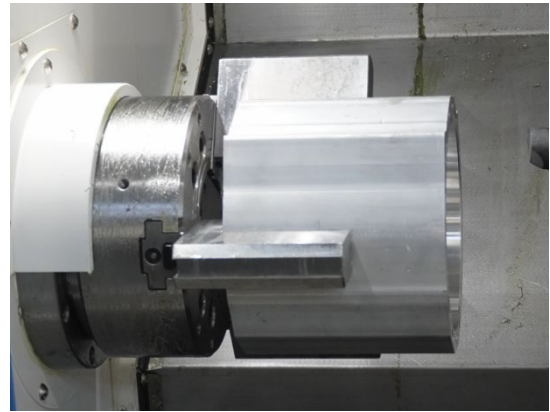
12-station servo turret

X/Z axis use C3 class two-way preload ball screw, 30m/s
faster response and high position.

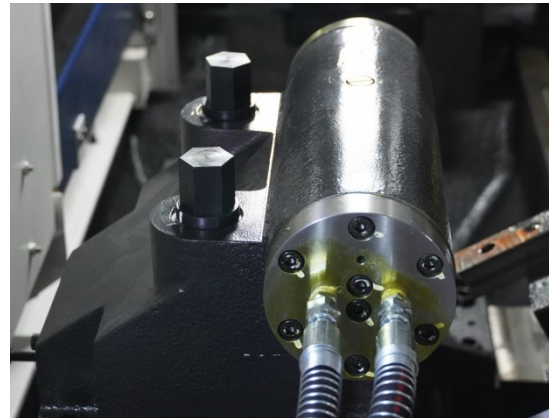


Customized 3-jaw hydraulic chuck

The wedge three-jaw chuck design is very suitable for clamping anomalous objects



Hydraulic tailstock with large span hard rail structure design, high stiffness, strong sexuality and high load capacity.



Automatic Lubrication system



The adjustment drive can be adjust the pressure chuck, turret, tailstock by manual.





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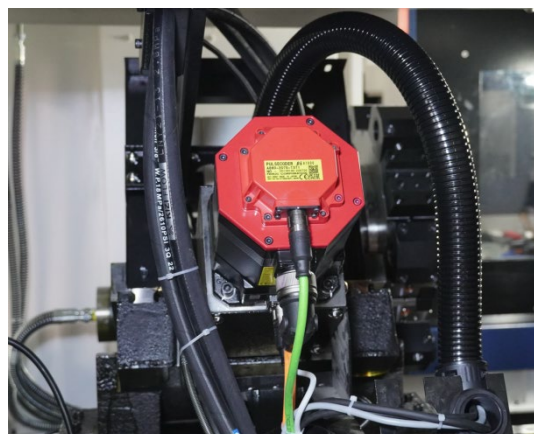
Comply with CE electrical safety standards



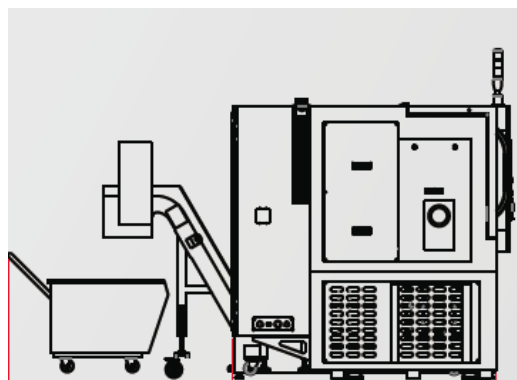
Control system box
IP54 class protect, Dustproof and waterproof



FAUNC β i series for drive and axis motor

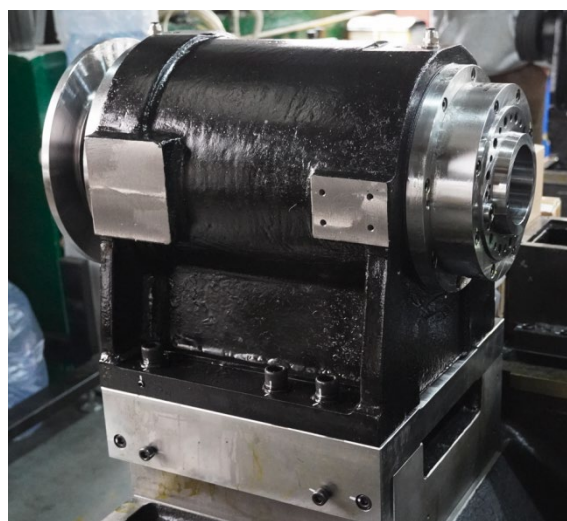


Automatic side chip removal + chip car

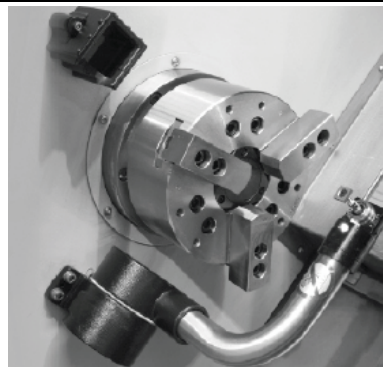


Optional

Direct motor drive for spindle rotation, reduced transmission errors, low vibration, high speed characteristics, significantly improved surface finish and reduced tool loss



Automatic tool start point probe





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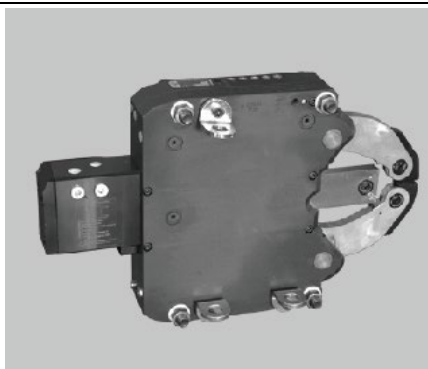
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Hydraulic centre rest



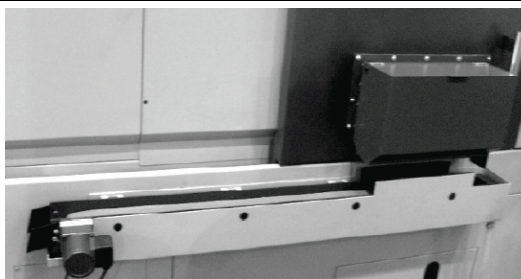
Oil-water separator



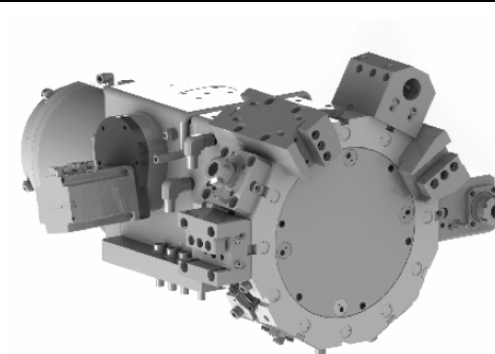
Oil mist collector



Automatic Workpiece receiver



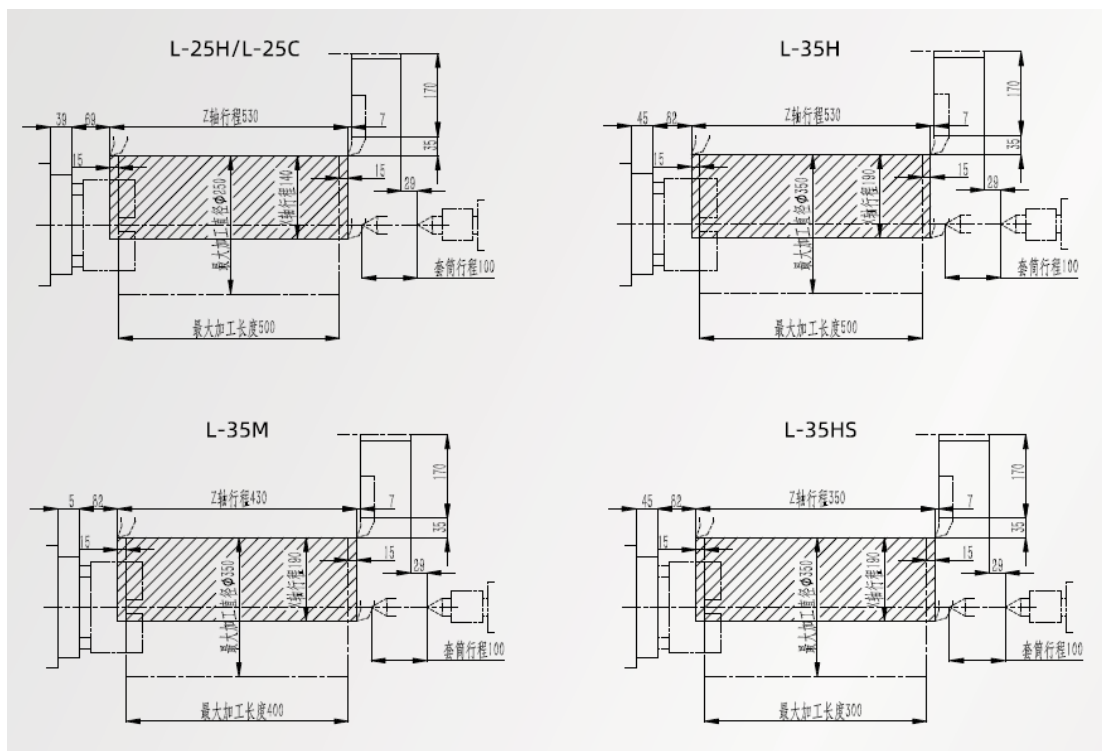
12-station servo power turret

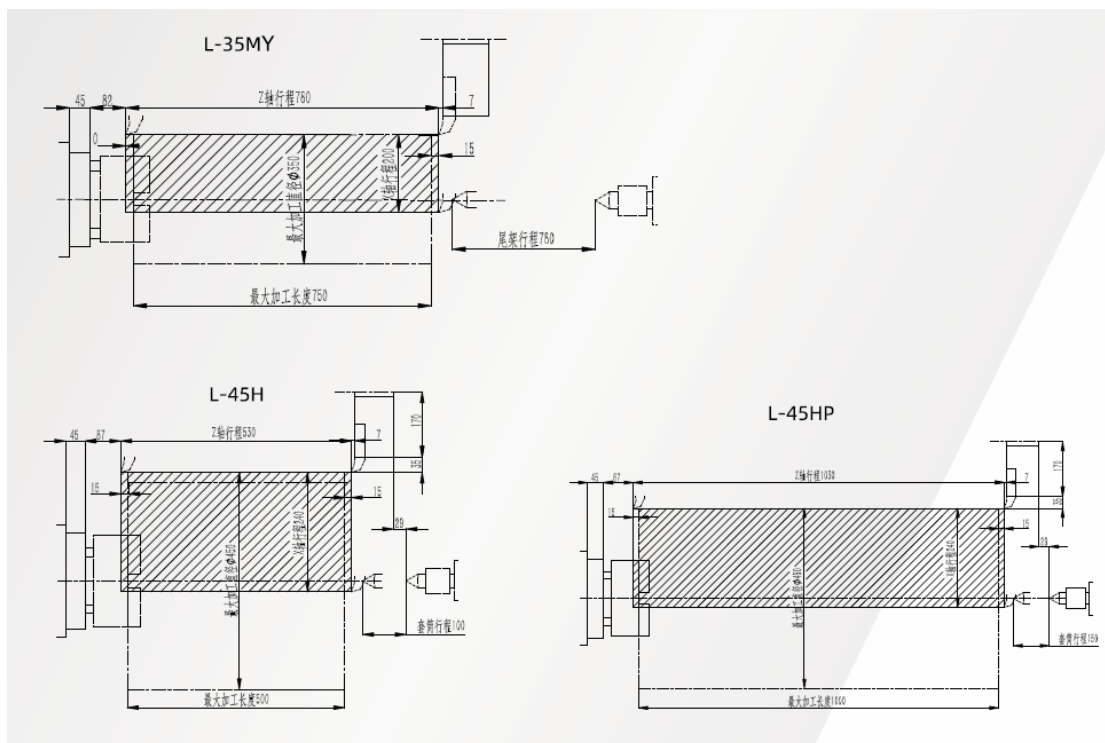


Manufacturer capacity

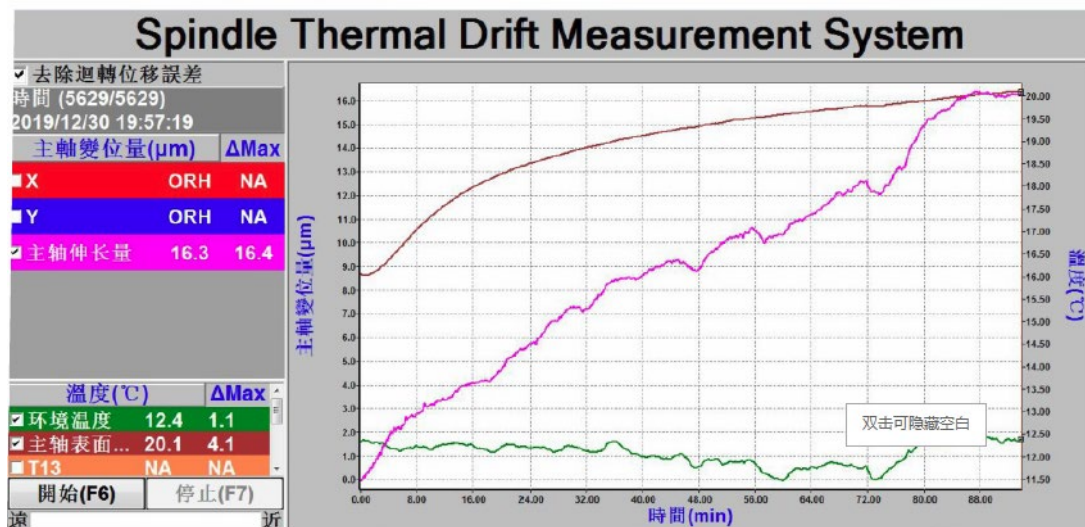


Machining scope

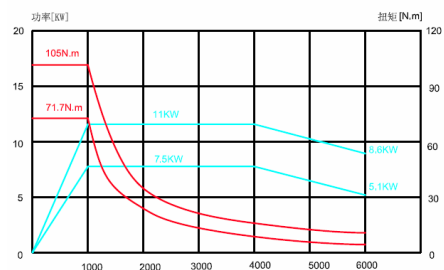




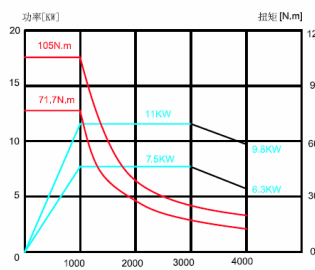
Spindle testing



A2-5机械主轴功率扭矩图



A2-6机械主轴功率扭矩图



A2-8机械主轴功率扭矩图

