

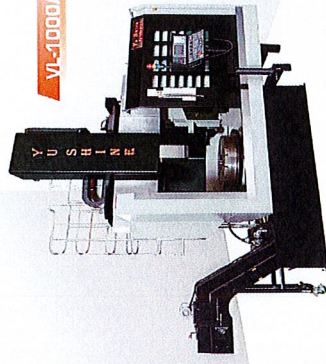


YSP

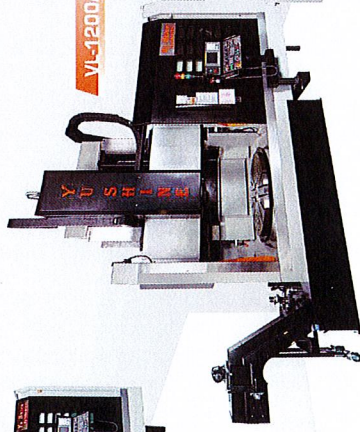
Yu Shine Exhibition Hall

**Heavy Duty
Vertical Lathes**

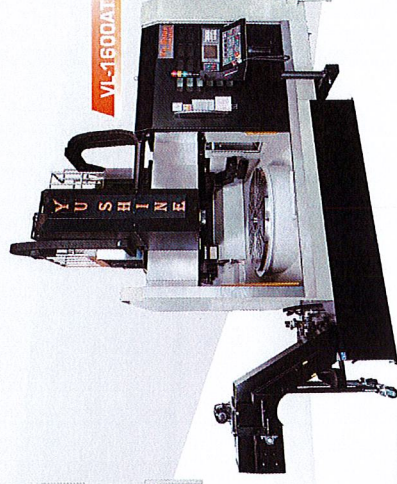
Quality, Innovation, Service, and Sustainability!



YL-1000ATC



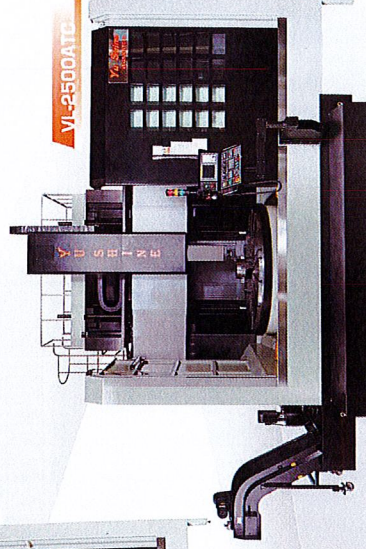
YL-1200ATC



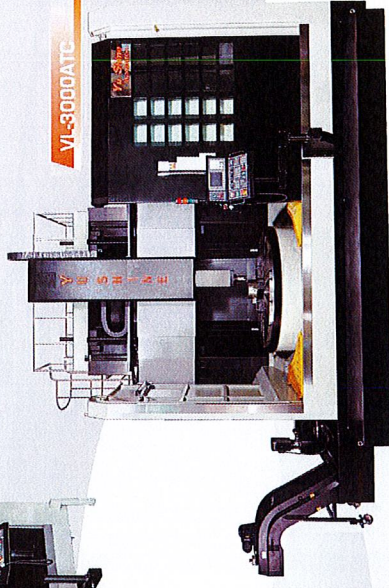
YL-1600ATC



YL-2000ATC



YL-2500ATC



YL-3000ATC

Wonderwork with Best Accuracy

Yu Shine was established in 1983 to design special application machine tools. Consistent technological progress and strict quality control has led our complete line of machine tools to be CE and ISO-9001 certified. We are known for precision, accuracy, and performance. Yu Shine machine tools are widely trusted by customers in Japan, Germany, USA, South America, Southeast Asia, and Europe - 38 countries in all. We offer a huge range of machine tools including our Heavy Duty Vertical Lathes, adapted to many different industries and applications around the world.

In 2007 we worked with world famous machine tool builders in Germany and Japan. Teamwork and technical exchange led to many advances in machine tool performance. Yu Shine also invested US\$6.8 million constructing a new 8800m² factory. Completed in 2007, this facility now employs 100 people. Integrating resources like this has helped Yu Shine achieve our full sales potential.



Yu Shine Vertical Lathes combine outstanding productivity and service to provide customers with a significant market advantage. We believe in achieving excellence and are always finding ways to improve. If you are looking for precision, innovation, excellent service, and a practical, sustainable approach to business, Yu Shine Heavy Duty Vertical Lathes are consistently ahead of the competition.

Standard Accessories

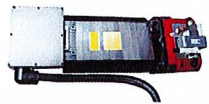
HEAVY DUTY VERTICAL LATHES



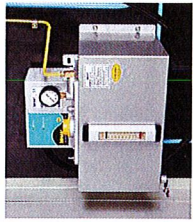
▶ Air Conditioner for Spindle Gearbox



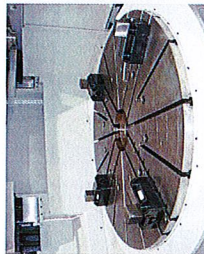
▶ Hydraulic Unit



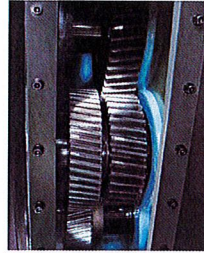
▶ Dual Speed Gearbox



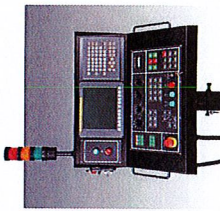
▶ Auto Lubrication System



▶ 4 Jaw Manual Rotary Table



▶ Rotary Table Transmission



▶ Fanuc Control System



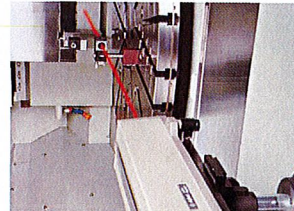
R&D Strategy

Our R&D team maintains an outstanding design philosophy and solid track record of innovation. Devoted to forward thinking product development, progressive and innovative technology is fundamental to our corporate development. Yu Shine anticipates emerging demands from an ever evolving market and delivers timely solutions year after year.



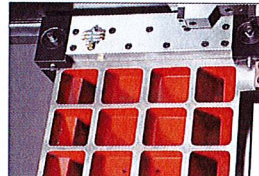
QC Testing

Yu Shine is well known for extremely diligent quality control. From initial prototype development, to final product delivery, strict testing at each stage is required before moving to the next. Careful attention to detail means defect free machines.

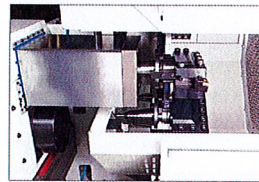


Renishaw XL-80 Laser Measurement System

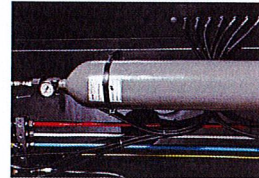
Accurately tests linear, angular, straightness, squareness and flatness measurements, as well as calibrates rotary axes to within ± 1 arc second accuracy.



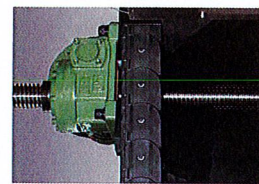
▶ Crossrail Clamping System



▶ ATC Magazine



▶ Automatic Balancing System

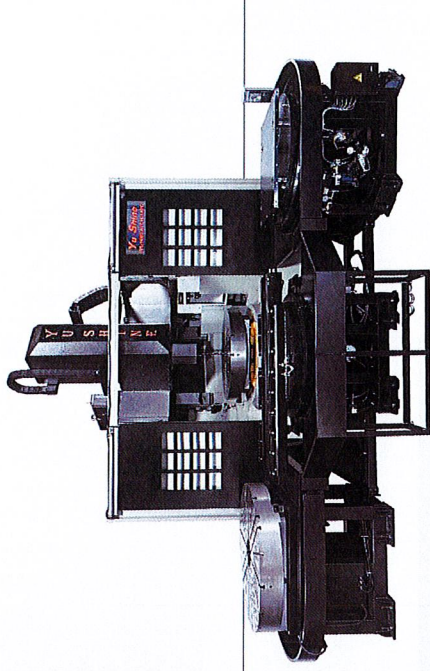


▶ Crossrail Hoist Motor

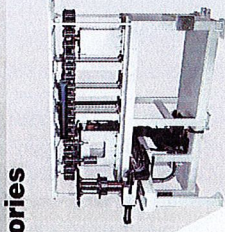
Optional Accessories

+APC

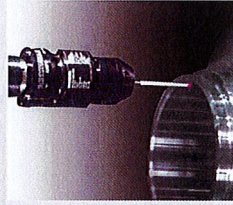
Improve vertical workpiece clamping times and overall efficiency by adding an automatic pallet changer to your heavy duty vertical lathe. Yu Shine has the years of research and development of automation equipment needed to satisfy all your production needs.



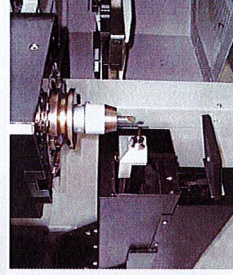
Optional Accessories



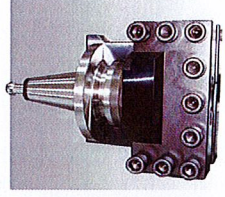
▶ ATC 30T / 60T / 90T



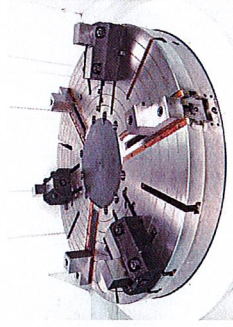
▶ Active Workpiece Checking



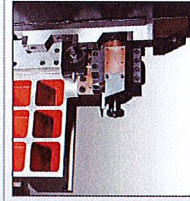
▶ Active Tool Checking



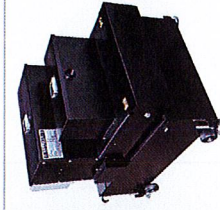
▶ Tool Holder



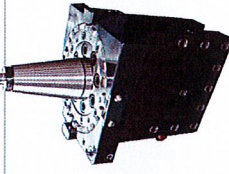
▶ 3 or 4 Jaw Power Chuck & Hand Chuck



▶ Crossrail Navigation System



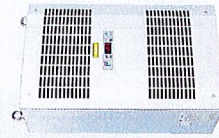
▶ Paper Filter



▶ Hirth Coupling Tool System



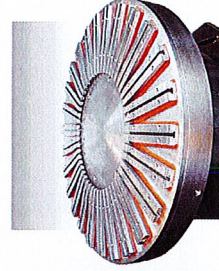
▶ Linear Encoder



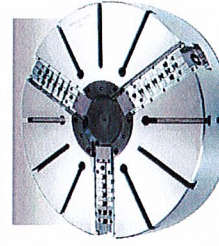
▶ Air Conditioner for Electrical Cabinet



▶ Siemens Control



▶ Magnetic Chuck



▶ 3 / 6 Jaw Power Chuck



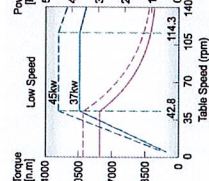
HEAVY DUTY VERTICAL LATHES

Output Performance Chart

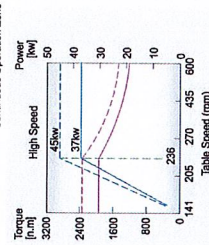
VL-1000 VL-1200 VL-1600 VL-2000 VL-2500 VL-3000

VL-1000

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



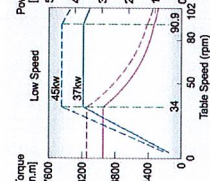
- Fanuc - α 40 / 6000I + gear box (1/5.5)
- 37 / 45 kw (50 / 60 hp)
- 2-140 rpm/min (low speed)



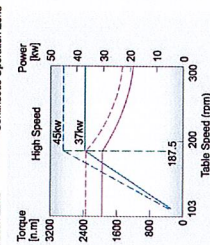
- Fanuc - α 40 / 6000I + gear box (1/1)
- 37 / 45 kw (50 / 60 hp)
- 141-600 rpm/min (high speed)

VL-1200

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



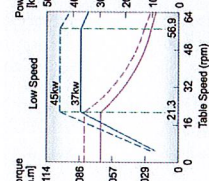
- Fanuc - α 40 / 6000I + gear box (1/5.5)
- 37 / 45 kw (50 / 60 hp)
- 2-102 rpm/min (low speed)



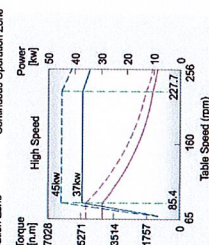
- Fanuc - α 40 / 6000I + gear box (1/1)
- 37 / 45 kw (50 / 60 hp)
- 103-300 rpm/min (high speed)

VL-1600

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



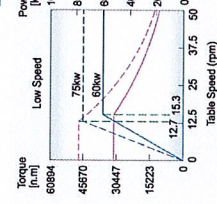
- Fanuc - α 40 / 6000I + gear box (1/4)
- 37 / 45 kw (50 / 60 hp)
- 2-64 rpm/min (low speed)



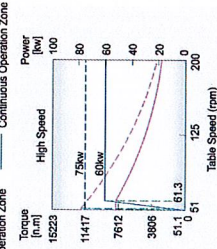
- Fanuc - α 40 / 6000I + gear box (1/1)
- 37 / 45 kw (50 / 60 hp)
- 65-256 rpm/min (high speed)

VL-2000

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



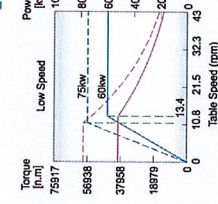
- Fanuc - α 60 / 4500HVI + gear box (1/4)
- 60 / 75 kw (80 / 100 hp)
- 2-60 rpm/min (low speed)



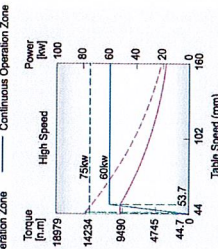
- Fanuc - α 60 / 4500HVI + gear box (1/1)
- 60 / 75 kw (80 / 100 hp)
- 51-200 rpm/min (high speed)

VL-2500

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



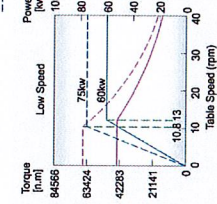
- Fanuc - α 60 / 4500HVI + gear box (1/4)
- 60 / 75 kw (80 / 100 hp)
- 2-43 rpm/min (low speed)



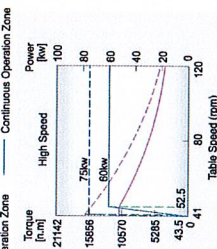
- Fanuc - α 60 / 4500HVI + gear box (1/1)
- 60 / 75 kw (80 / 100 hp)
- 44-160 rpm/min (high speed)

VL-3000

Table dia.
Max. swing dia.
Max. turning dia.
Max. turning height
Table speed
Max. load on table



- Fanuc - α 60 / 4500HVI + gear box (1/4)
- 60 / 75 kw (80 / 100 hp)
- 2-40 rpm/min (low speed)



- Fanuc - α 60 / 4500HVI + gear box (1/1)
- 60 / 75 kw (80 / 100 hp)
- 41-120 rpm/min (high speed)



YSP

HEAVY DUTY VERTICAL LATHES

Tool System



Standard: BT-50
Optional: DIN50 / CAT50

Turning

Boring

Turning

Tapping

Face

Milling

90°

Milling

Drilling

Grinding

(2400 rpm)

Grinding

(5000 rpm)

Tool Holder

L

Tool Type

□ 32 x 32

□ 32 x 32

□ 32 x 32

□ 32 x 32

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Unit: mm

32 (1 1/4")

200



YSP

Specifications

	Unit	VL-1000ATC	VL-1000ATC+C	VL-1200ATC	VL-1200ATC+C	VL-1600ATC	VL-1600ATC+C
CAPACITY							
Table Diameter	mm	ø1,000	ø1,000	ø1,250	ø1,250	ø1,600	ø1,600
Max. Swing Diameter	mm	ø1,350	ø1,350	ø1,600	ø1,600	ø2,000	ø2,000
Max. Turning Diameter	mm	ø1,150	ø1,350	ø1,350	ø1,350	ø1,800	ø1,800
Max. Turning Height	mm	1,070	1,350	1,350	1,350	1,350	1,350
Max. Load on Table	kg	4,000	4,000	5,000	5,000	8,000	8,000
#1 SPINDLE							
Spindle Speed – Low – High	rpm	2~140 141~600	2~140 141~600	2~102 103~300	2~102 103~300	2~64 65~256	2~64 65~256
Max. Torque	N.m	10,000	10,000	12,500	12,500	20,000	20,000
#2 SPINDLE							
Spindle Speed	rpm	N/A	N/A	N/A	N/A	N/A	N/A
Max. Torque	N.m	N/A	N/A	550	550	2,400	550
TRAVEL / FEED							
X Axis Travel	mm	1,350	1,350	1,475	1,475	1,675	1,675
Z Axis Travel	mm	800	800	900 (1,200)	900 (1,200)	900 (1,200)	900 (1,200)
Vertical Travel of Crossrail	mm	500	500	800	800	800	800
X Axis Rapid Feedrate	mm/min	12,000	12,000	12,000	12,000	12,000	12,000
Z Axis Rapid Feedrate	mm/min	10,000	10,000	10,000	10,000	10,000	10,000
Cutting Feedrate	mm/rev	0.01~50	0.01~50	0.01~50	0.01~50	0.01~50	0.01~50
Manual Feedrate	mm/min	0~1,260	0~1,260	0~1,260	0~1,260	0~1,260	0~1,260
TOOLING							
No. of Tools		12 Tools	12 Tools	16 Tools	16 Tools	12 Tools	16 Tools
Type of Tool Shank		BT50	BT50	BT50	BT50	BT50	BT50
Max. Tool Weight	kg	50	50	50	50	50	50
Max. Loading of ATC	kg	360	450	360	450	360	450
Tool Change Time (ATC)	sec	30	30	30	30	30	30
MOTOR							
#1 Spindle Motor (Cont/30min)	kw	37/45	37/45	37/45 (60/75)	37/45 (60/75)	37/45 (60/75)	37/45 (60/75)
#2 Spindle Motor (Cont/30min)	kw	N/A	N/A	N/A	N/A	N/A	N/A
X Axis Servo Motor	kw	7.0	7.0	7.0	7.0	7.0	7.0
Z Axis Servo Motor	kw	7.0	7.0	7.0	7.0	7.0	7.0
CF Axis Servo Motor	kw	N/A	N/A	N/A	N/A	N/A	N/A
Crossrail Hoist Motor	kw	1.5	2.25	2.25	2.25	2.25	2.25
Hydraulic Motor	kw	3.75	3.75	3.75	3.75	3.75	3.75
Conveyor Motor	kw	0.375	0.375	0.375	0.375	0.375	0.375
Coolant Pump	kw	0.75+0.75+1.1	0.75+0.75+1.1	1.7+1.1	1.7+1.1	1.7+1.1	1.7+1.1
CAPACITY							
Hydraulic Tank	Liter	100	100	100	100	100	100
Coolant Tank	Liter	700	700	700	700	700	700
MACHINE BODY							
Machine (L1 x W1)	mm	4,600 x 5,500	4,600 x 5,500	4,700 x 5,800	4,700 x 5,800	5,050 x 6,300	5,050 x 6,300
Machine (H1)	mm	5,330	5,330	5,500	5,500	5,500	5,500
Machine Weight	kg	24,000	25,000	32,000	33,000	36,000	36,000
Power Requirement	kva	75	85	80	90	80	90

Standard Accessories

- 4 Jaw Manual Chuck
- Chip Conveyor, Chip Cart
- Coolant System
- Auto Lubrication System
- Lighting Lamp
- Alarm Lamp
- Operation Manual
- Hydraulic Unit
- Crossrail Hoist Motor
- Clamping System for Crossrail
- ATC Magazine
- Air Conditioner for Spindle Gearbox
- Dual Speed Gearbox
- Automatic Balancing System
- Tool Kit
- Fanuc System 0i
- Oil / Water Separator
- Heat Exchanger for Electrical Cabinet

OPTIONAL ACCESSORIES

() =Optional N/A=Not Available * Specifications are subject to change without notice.

	Unit	VL-2000ATC	VL-2000ATC+C	VL-2500ATC	VL-2500ATC+C	VL-3000ATC	VL-3000ATC+C
CAPACITY							
Table Diameter	mm	ø2,000	ø2,000	ø2,500	ø2,500	ø3,000	ø3,000
Max. Swing Diameter	mm	ø2,500	ø2,500	ø3,000	ø3,000	ø3,500	ø3,500
Max. Turning Diameter	mm	ø2,300	ø2,300	ø2,800	ø2,800	ø3,400	ø3,400
Max. Turning Height	mm	1,700	1,700	1,700	1,700	1,650	1,650
Max. Load on Table	kg	10,000	10,000	15,000	15,000	20,000	20,000
#1 SPINDLE							
Spindle Speed – Low – High	rpm	2~50 51~200	2~50 51~200	2~43 44~160	2~43 44~160	2~40 41~120	2~40 41~120
Max. Torque	N.m	46,000	46,000	57,000	57,000	64,500	64,500
#2 SPINDLE							
Spindle Speed	rpm	N/A	N/A	N/A	N/A	N/A	N/A
Max. Torque	N.m	N/A	N/A	730	730	2,400	730
TRAVEL / FEED							
X Axis Travel	mm	2,275	2,275	2,525	2,525	2,775	2,775
Z Axis Travel	mm	1,000 (1,400)	1,000 (1,400)	1,000 (1,400)	1,000 (1,400)	1,000 (1,400)	1,000 (1,400)
Vertical Travel of Crossrail	mm	1,150	1,150	1,150	1,150	1,200	1,200
X Axis Rapid Feedrate	mm/min	10,000	10,000	10,000	10,000	10,000	10,000
Z Axis Rapid Feedrate	mm/min	10,000	10,000	10,000	10,000	10,000	10,000
Cutting Feedrate	mm/rev	0.01~50	0.01~50	0.01~50	0.01~50	0.01~50	0.01~50
Manual Feedrate	mm/min	0~1,260	0~1,260	0~1,260	0~1,260	0~1,260	0~1,260
TOOLING							
No. of Tools		12 Tools	12 Tools	12 Tools	12 Tools	12 Tools	12 Tools
Type of Tool Shank		BT50	BT50	BT50	BT50	BT50	BT50
Max. Tool Weight	kg	50	50	50	50	50	50
Max. Loading of ATC	kg	360	450	360	450	360	450
Tool Change Time (ATC)	sec	30	30	45	45	45	45
MOTOR							
#1 Spindle Motor (Cont/30min)	kw	60/75 (75/100)	60/75 (75/100)	60/75 (75/100)	60/75 (75/100)	60/75 (75/100)	60/75 (75/100)
#2 Spindle Motor (Cont/30min)	kw	N/A	N/A	N/A	N/A	N/A	N/A
X Axis Servo Motor	kw	7.0	7.0	7.0	7.0	7.0	7.0
Z Axis Servo Motor	kw	7.0	7.0	7.0	7.0	7.0	7.0
CF Axis Servo Motor	kw	N/A	N/A	N/A	N/A	N/A	N/A
Crossrail Hoist Motor	kw	3.75	3.75	3.75	3.75	3.75	3.75
Hydraulic Motor	kw	3.75	3.75	3.75	3.75	3.75	3.75
Conveyor Motor	kw	0.375	0.375	0.375	0.375	0.375	0.375
Coolant Pump	kw	2.2+1.1	2.2+1.1	2.2+1.1	2.2+1.1	2.2+1.1	2.2+1.1
CAPACITY							
Hydraulic Tank	Liter	130	130	130	130	130	130
Coolant Tank	Liter	700	700	1,100	1,100	1,100	1,100
MACHINE BODY							
Machine (L1 x W1)	mm	4,950 x 7,320	4,950 x 7,320	5,400 x 7,570	5,400 x 7,570	6,100 x 8,700	6,100 x 8,700
Machine (H1)	mm	6,600	6,600	6,600	6,600	6,700	6,700
Machine Weight	kg	51,000	52,000	53,000	54,000	68,000	68,000
Power Requirement	kva	140	150	140	150	140	150

Optional Accessories

- 3/6 Jaw Power Chuck
- 3 or 4 Jaw Power Chuck + Hand Chuck
- ATC 16T / 30T / 60T / 90T
- Grinding Function
- Paper Filter
- Crossrail Navigation System
- Power Jaw / Hand Jaw
- Coolant Through Spindle
- Linear Encoder of X/Z Axis
- Hirth Coupling Tool System
- Z-Axis Special Travel
- #1 Spindle Motor
- Automatic Door
- Gearbox for X/Z Axis Servo Motor
- Transformer
- Active Tool Checking
- Automatic Workpiece Checking
- Tool Holder
- Fanuc System 18i / 32i
- Siemens System 810 / 840
- Custom Color Option
- Automatic Pallet Changer
- CE Mark
- Air Conditioner for Electrical Cabinet