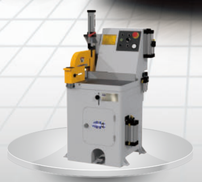
JIH-T5

JIH-T3S

JIH-18DB



JIH-18D

JIH-20

JIH-NC24LB

JIH-CNC 4S

JIH-24L

JIH-I MACHINERY
日意機械

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ACW 2022.08.2000C

JIH-I MACHINERY
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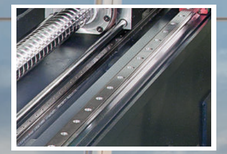
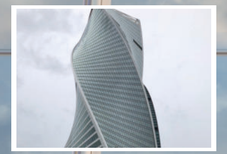
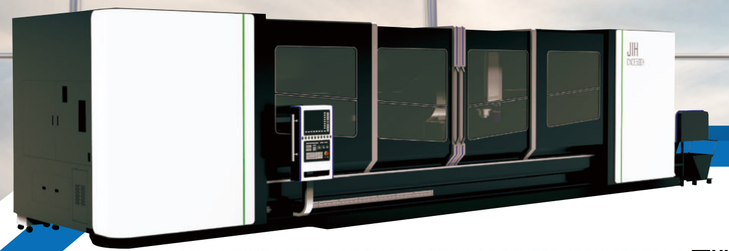






PROFESSIONAL MANUFACTURE OF CNC MACHINING CENTER, NON-FERROUS METAL WORKING MACHINERY, ALUMINIUM, PVC, DOOR AND WINDOW WORKING MACHINE, HIGH SPEED, HIGH ACCURACY & HIGH PRODUCTION SAWING MACHINE

Company Profile

About Us JIH-I Machinery Co, Ltd.

Established in 1971, JIH-I's major business at its initial stage was whole-plant planning. JIH-I products have been sold to countries all over the world and have been recognized by customers in various industries. Since 1995, to meet market demands, JIH-I has specialized in designing and manufacturing high-speed cut-off saws, NC fully automatic high-production saws, CNC machining centers, 45-degree miter saws, and hydraulic punching machines. Driven by a commitment to continuous innovation in machine research, JIH-I has offered diversified products to customers, ranging from semi-automatic machines to CNC fully automatic machines. Moreover, the product range continues to expand.

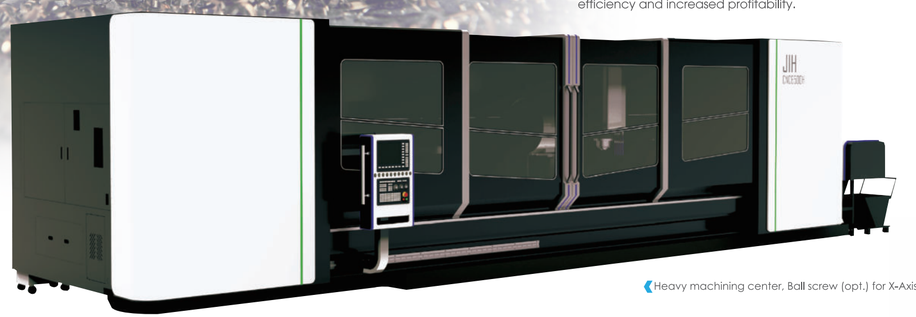
JIH-I's outstanding manufacturing capabilities, combined with several patents on its machines, provide JIH-I with a competitive edge in the global market. JIH-I's market share has expanded gradually, and production capacity has increased as well.

JIH-CNC H

3-Axis Traveling Column
Heavy Duty Profile Machining Center

Travel Column Type Machining Center
Extra Fine Craftsmanship, Ultimate Performance
Designed for Long and Short Workpiece Machining

The JIH-CNC6500H from JIH-I Machinery is specifically designed and engineered to meet the needs of customers who demand maximum efficiency and versatility. It is a value-added machine, ideal for processing extra-long workpieces, and is also well-suited for multi-stage machining on short workpieces. Built with a traveling column and a rugged construction, the machine ensures durability and precision. Equipped with a 24-tool automatic tool changer, it maximizes its multi-tasking capabilities, enabling enhanced performance. With the JIH-CNC6500H, you achieve greater efficiency and increased profitability.



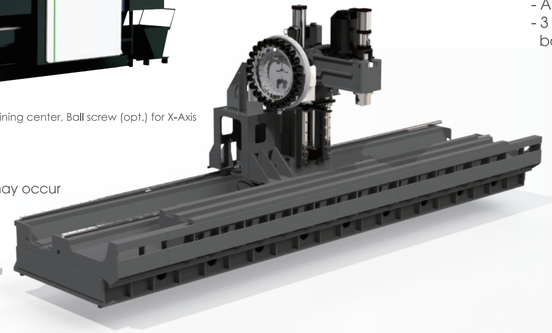
Heavy machining center, Ball screw (opt.) for X-Axis

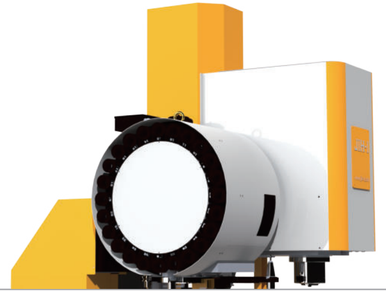
APPLICABLE INDUSTRIES
- Aluminum door and window
- Curtain wall
- Extruded aluminum machining
- Long metallic parts

APPLICABLE MATERIALS
- Aluminum
-Steel, copper
- Metal (such as:linear rails and round rod, etc.)
- Other non-ferrous metals
- Linear guide way machining

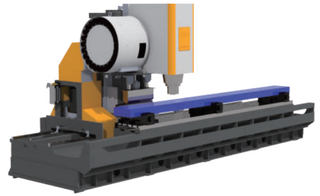
DIRECT DRIVE SPINDLE

The spindle eliminates wear issues that may occur with a belt-driven transmission unit while offering quiet and fast, low-noise operation during machining.

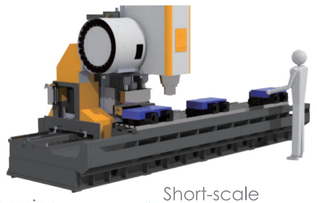




Processing mode



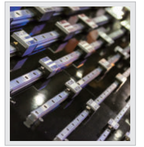
Long-scale processing

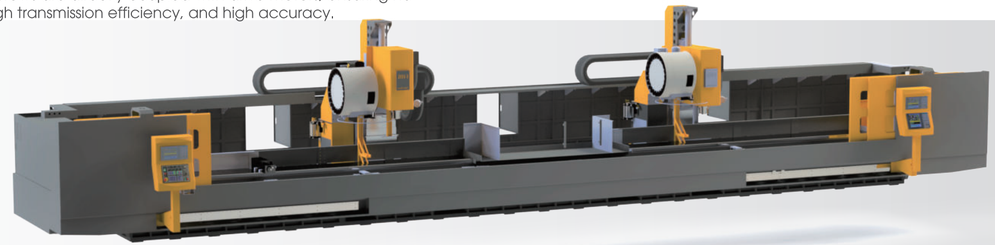


Short-scale multiple processing

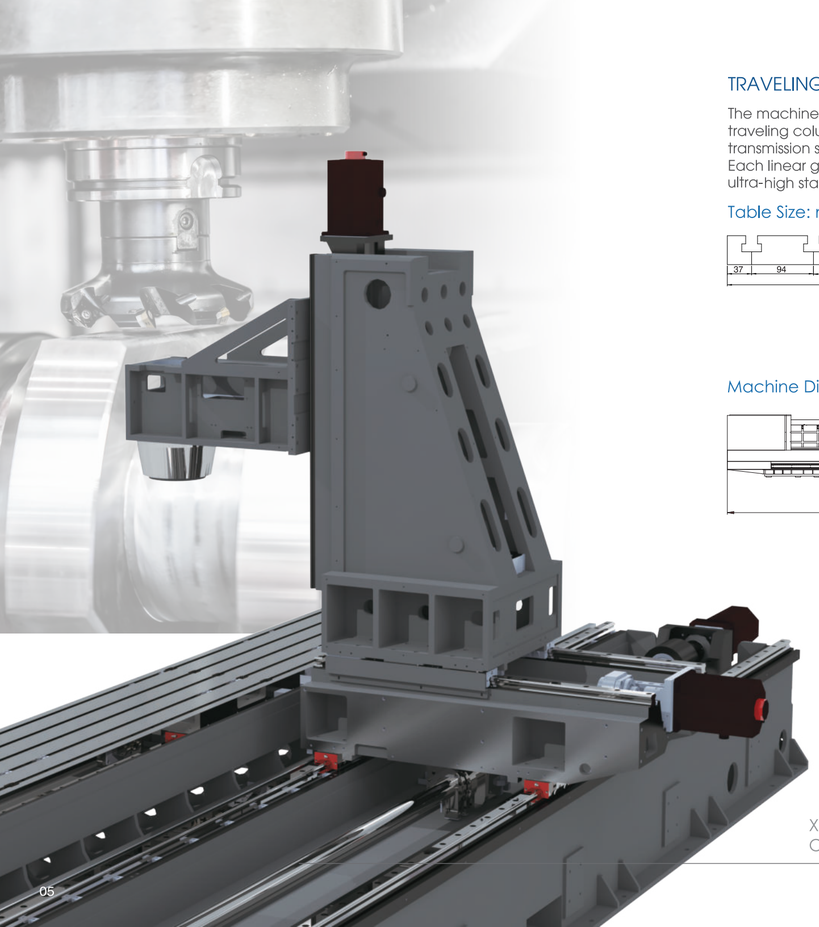
Robust Construction Heavy Cutting Resistance
Versatile Machining Capabilities

- The base is fabricated from heavy-gauge steel plates and scientifically reinforced, providing solid support for the column and workpieces.
- Traveling column design enhances machining efficiency and accuracy.
- The oversized, box-type column is manufactured from high-quality cast iron.
- Large-diameter ball screw on the x-axis is securely supported to prevent sagging issues.
- 3 axes adopt 45 mm, P-class, high-precision linear guideways; the X-axis features 8 blocks, while the Y and Z axes feature 6 blocks each.
- Automatic lubricator supplies lubrication oil to all linear guideways and ball screws.
- 3 axes ball screws are directly coupled with drive motors, ensuring no backlash, high transmission efficiency, and high accuracy.





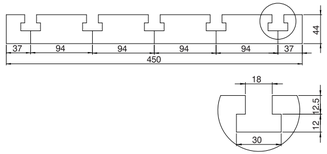
Optional Double Head



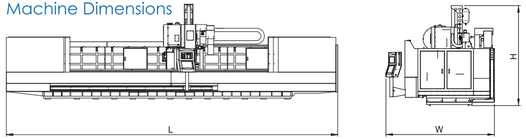
TRAVELING COLUMN

The machine is designed with a traveling column and a fixed table. With the traveling column configuration, the workpiece weight does not affect the transmission system. As a result, consistent machining accuracy is achieved. Each linear guideway on the Y-axis is fitted with 3 sliding blocks to ensure ultra-high stability when the Y-axis is moving.

Table Size: mm



Machine Dimensions



Model	6500H	5500H
L x W x H	12000x3100x3100	11000x3100x3100
T-Slot	6500x450	5500x450
	4500H	**3500H**
	10000x3100x3100	9000x3100x3100
	4500x450	3500x450

unit:mm

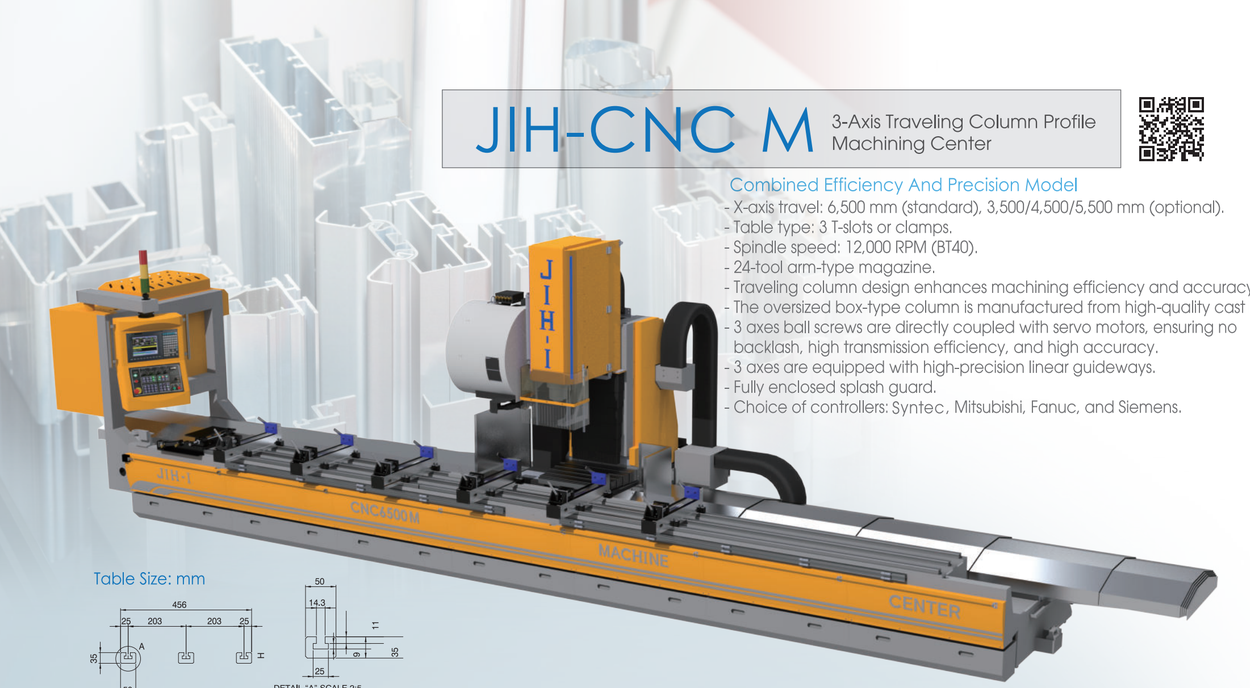
X axis-gear rack
Option ball screw

MODEL	UNIT	JIH-CNC 6500H
STROKE		
X axis stroke	mm	6,500 (Opt. 3,500/4,500 /5,500)
Y axis stroke	mm	510 (Opt. 650)
Z axis stroke	mm	510(Opt. 700)
Distance from spindle nose to table surface	mm	Min. 160, Max. 670
TABLE		
Table type		T-Slots
Table size	mm	450 x 6,500 (600 x 6500, For 650)
Max. load	kgs	1,000
T-Slot (No. x Pitch x Size)	mm	5 x 94 x 450
SPINDLE		
Spindle speed	R.P.M	12,000
Spindle motor	kw (HP)	11kw(15HP)
Spindle taper cone	R.P.M.	BT40 (Opt.BT50 8,000)
FEED RATE		
Rapid feed rate (X /Y/ Z)	m/min	Gear rack X:40 (Opt. Ball screw X:24), Ball screw Y:24, Ball screw Z:24
Servo motors of 3 axes	kw	X:5,Y:3.5, Z:3.5
Repeatability accuracy	mm	X:+0.02, Y:+0.01, Z:+0.01
Cutting feed rate	mm/min	F:1-5,000
ATC		
Magazine capacity		24 Tools
ATC type		Arm type
Tool holder		BT40
Pull stud	degree	45°
Max. tool length	mm	300
Max. tool diameter	mm	80
Max. tool weight	kgs	7
DIMENSIONS		
Machine weight	kgs	15,000 -21000
Machine dimensions	mm	15,000 x 3,200 x 3,000
Packing dimensions	mm	11,800 x 2,300 x 2,500 (Two 40" container)
Required pneumatic pressure	kg/cm^2	6

- We reserve the rights to modify above specification without notice.

JIH-CNC M

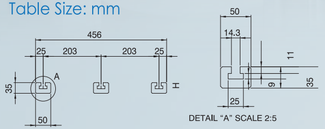
3-Axis Traveling Column Profile Machining Center



Combined Efficiency And Precision Model

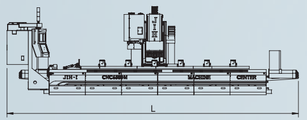
- X-axis travel: 6,500 mm (standard), 3,500/4,500/5,500 mm (optional).
- Table type: 3 T-slots or clamps.
- Spindle speed: 12,000 RPM (BT40).
- 24-tool arm-type magazine.
- Traveling column design enhances machining efficiency and accuracy.
- The oversized box-type column is manufactured from high-quality cast iron.
- 3 axes ball screws are directly coupled with servo motors, ensuring no backlash, high transmission efficiency, and high accuracy.
- 3 axes are equipped with high-precision linear guideways.
- Fully enclosed splash guard.
- Choice of controllers: Syntec, Mitsubishi, Fanuc, and Siemens.

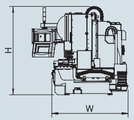
Table Size: mm



DETAIL "A" SCALE 2:5

Machine Dimensions





unit:mm

Model	6500M	4500M	3500M
L x W x H	9980x2300x2750	7980x2230x2750	6980x2230x2750
T-Slot	6500x450	4500x450	3500x450

APPLICABLE INDUSTRIES

- Aluminum door and window
- Curtain wall
- Extruded aluminum machining
- Long metallic parts

APPLICABLE MATERIALS

- Aluminum
- Cooper, Brass
- Metal (such as: linear guide ways and round rod, etc.)
- Other non-ferrous metals

Positioning stopper

Arm-type(Quick tool change)

Angle head(Opt.)

MODEL	UNIT	JIH-CNC 6500 M (BT40)
STROKE		
X axis stroke	mm	6,500 (Opt. 3,500 / 4,500 / 5,500)
Y axis stroke	mm	350 (Opt. 510)
Z axis stroke	mm	510
Distance from spindle nose to table surface	mm	Min. 160, Max. 670
TABLE		
Table type		3 Sets T-slots (Opt. T-slots table)
Table size	mm	456 x 6,500
Max. load	kgs	800
T-Slot (No. x Pitch x Size)	mm	3 x 50 x 203
SPINDLE		
Spindle speed	R.P.M	12000
Spindle motor	kw (HP)	7.5 kw (10 HP).
Spindle taper cone		BT40
FEED RATE		
Rapid feed rate (X /Y/ Z)	m/min	X:40. Y:24, Z:24
Servo motors of 3 axes	kw	X:2, Y:1.0, Z:2
Repeatability accuracy	mm	X:±0.02/Y:±0.02/ Z:±0.02
Cutting feed rate	mm/min	F:1-5,000
ATC		
Magazine capacity		24 Tools
ATC type		Arm type
Tool holder		BT40
Pull stud	degree	45 °
Max. tool length	mm	300
Max. tool diameter	mm	80
Max. tool weight	kgs	7
DIMENSIONS		
Machine weight	kgs	9,000 - 13000 (Opt. heavy base mechanism with high accuracy)
Machine dimensions	mm	10,000 x 2,800 x 2,700
Packing dimensions	mm	10,100 x 2,300 x 2,500
Required pneumatic pressure	kg/cm^2	6

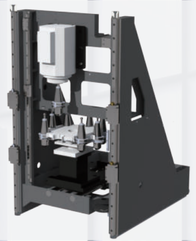
- We reserve the rights to modity above specification without notice.

JIH-CNC E

3-Axis Traveling Column High-Speed Profile Machining Center

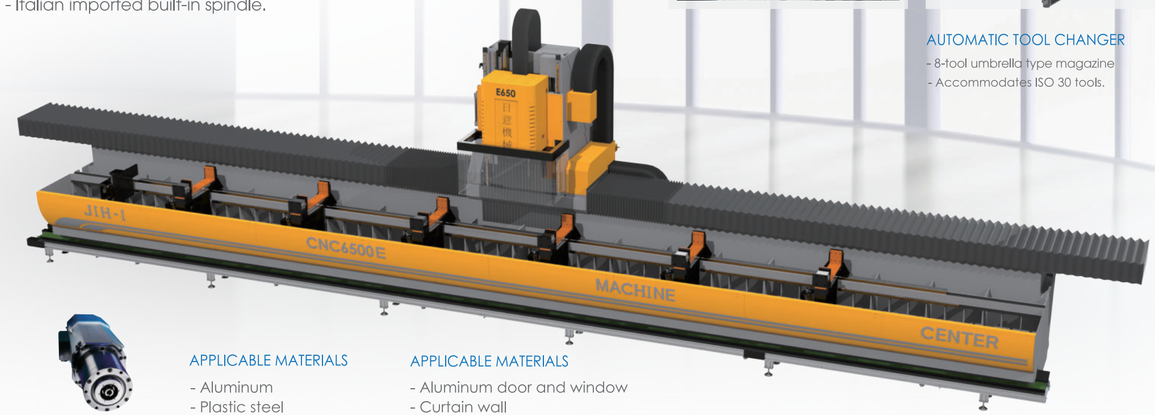
Economically Priced, Performance-Proven.
An Extra-Value Machine for Drilling, Tapping, and Milling Operations.

- Choice of X-axis travels: 3,500 / 4,500 / 5,500 / 6,500 mm.
- Table type: vise.
- ISO 30 spindle.
- Spindle speed: 18,000 RPM (standard).
- 8-tool umbrella-type magazine.
- Traveling column design enhances machining efficiency and accuracy.
- 3 axes are equipped with high-precision linear guideways.
- X-axis ball screw is directly coupled with a servo motor.
- Choice of various controllers: Syntec, Mitsubishi, Fanuc, and Siemens.
- Italian imported built-in spindle.



AUTOMATIC TOOL CHANGER

- 8-tool umbrella type magazine
- Accommodates ISO 30 tools.



Built-in
Motor Spindle

APPLICABLE MATERIALS

- Aluminum
- Plastic steel
- Other non-ferrous metals

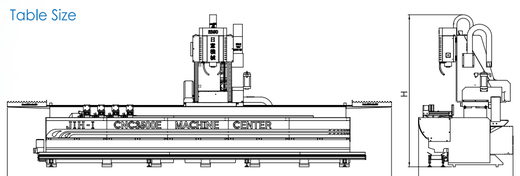
APPLICABLE MATERIALS

- Aluminum door and window
- Curtain wall
- Extruded aluminum machining

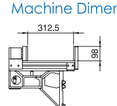
MODEL	UNIT	JIH-CNC 6500 E (3 axes)
STROKE		
X Axis stroke	mm	3,500 / 4,500 /5,500 / 6,500 (Opt.)
Y Axis stroke	mm	300
Z Axis stroke	mm	200
Distance from spindle nose to table surface	mm	Min. 150, Max. 350
TABLE		
Table type		Vise (Opt.)300
Table size	mm	300 x (3,500- 6,500)
T-Slot (No. x Pitch x Size)	mm	850
SPINDLE		
Spindle speed	R.P.M	18,000
Spindle motor	kw (HP)	7.5kw(10HP)
Spindle taper cone		ISO 30
FEED RATE		
Rapid feed rate (X /Y / Z)	m/min	X:60, Y:24~Z:24
Servo motors of 3 axes	kw	X:1.3, Y:1.3, Z:1.3
Repeatability accuracy	mm	X:±0.03, Y:±0.02, Z:±0.02
Cutting feed rate	mm/min	F:1-5,000
ATC		
Magazine capacity		8 Tools
Tool holder		ISO 30
Max. tool diameter	mm	50
DIMENSIONS		
Machine weight	kgs	3,500-5,500
Machine dimensions	mm	5,400- 8,900 x 1,600 x 2.300
Packing dimensions	mm	5,600-9,100 x 1,700x 2,300
Required pneumatic pressure	kg/cm²	6

- We reserve the rights to modity above specification without notice.

Table Size



Machine Dimensions



unit:mm

Model	6500E	4500M
L x W x H	8900x1600x2300	6400x1600x2300
T-Slot	6500x300	3500x300

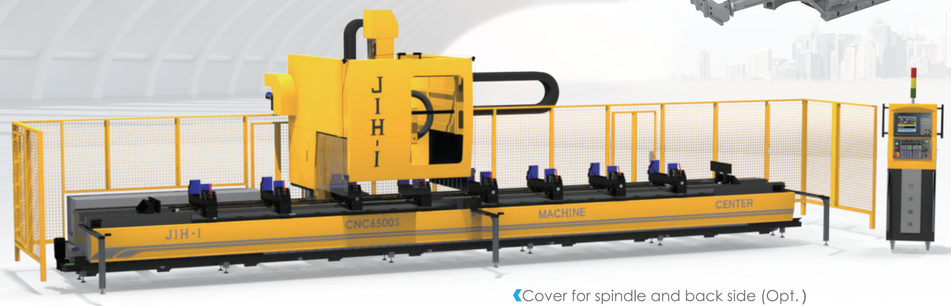
JIH-CNC S4

4-Axis Traveling Column Profile Machining Center

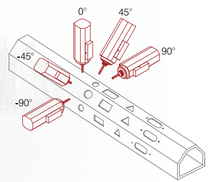
Built-in Motor Spindle

APPLICABLE MATERIALS
- Aluminum
- Other non-ferrous metals

APPLICABLE MATERIALS
- Aluminum door and window
- Curtain wall
- Extruded aluminum machining
- Long material parts



Cover for spindle and back side (Opt.)



Spindle tilting ±90° (Opt.)

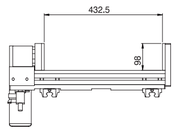
- Choice of X-axis travels: 3,500 / 4,500 / 5,500 / 6,500 mm.
- Table type: vise.
- ISO 30 spindle. Spindle speed: 18,000 RPM (Std.) / 24,000 RPM (Opt.)
- 8-tool umbrella-type magazine.
- Traveling column design enhances machining efficiency and accuracy.
- 3 axes are equipped with high-precision linear guideways.
- 3 axes ball screw is directly coupled with servo motor.
- Syntec controllers -Syntec (Opt. Mitsubishi, Fanuc, and Siemens).
- Fully enclosed splash guard (Opt.).

Vise moving automatically (Opt.)

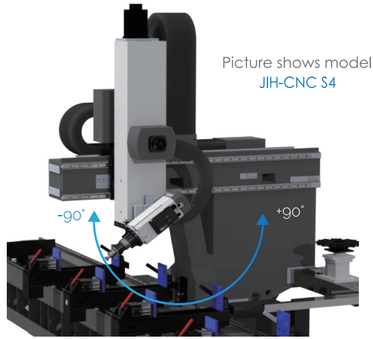
4 AXIS SPINDLE TILTING

- The angular head can be swiveled ±90° to the right and left, making it suitable for angular drilling and tapping operations. It is also suitable for face milling and multi-surface machining in a single setup.
- Swiveling degree is adjusted through computer control.
- Minimum indexing angle is 1°.
- A tool clamp/release button is provided on the angular head.
- The built-in spindle features high accuracy, low vibration, low noise, and no backlash.

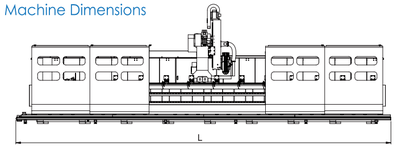
Table Size: mm

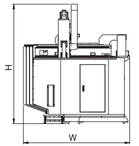


Picture shows model JIH-CNC S4



Machine Dimensions





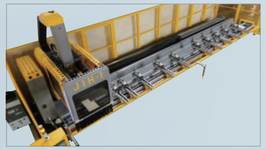
Model	6500S	3500S
L x W x H	9000x2550x3200	6000x2550x3200
T-Slot	6000x375	3500x375

MODEL	UNIT	JIH-CNC S4 (4 Axes)
STROKE		
X Axis stroke	mm	3,500/4,500/5,500 /6,500 (Opt.)
Y Axis stroke	mm	450 (A0° / 200(4 axes) / A+90°
Z Axis stroke	mm	500
TABLE		
Table type		Vise (1 set / per meter)
Table size	mm	432 x (3,500 ~ 6,500)
Table height from floor	mm	950
SPINDLE		
Spindle speed	R.P.M	18,000 (Opt. 24.000)
Spindle motor	kw (HP)	7.5kw(10HP)
Spindle taper cone		ISO 30
Sawblade size		10"X1 "Bore (With 90° angular head)
FEED RATE		
Rapid feed rate (X, Y, Z)	M/min	X: 50 (Opt. 80), Y: 24, Z: 24
Servo motors of 3 axes	kw	X: 2, Y: 1, Z: 2, A: 750w
Cutting feed rate	m/mm	F: 1~5,000
ATC		
Magazine capacity		8 Tools (Opt. 12 Tools)
Tool holder		ISO 30
DIMENSIONS		
Machine weight	kgs	4,500~6,500
Machine dimensions	mm	6,000~9,000 x 2,500 x 3,200
Packing dimensions	mm	6,100~9,100 x2,300x2,450
Required pneumatic pressure	kgs/cm^2	6

- We reserve the rights to modity above specification without notice.

JIH-CNC S5

5-Axis Traveling Column
Profile Machining Center

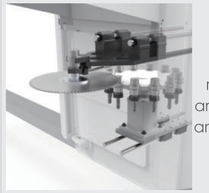


Safety cover(opt.)

APPLICABLE MATERIALS
- Aluminum
- Other non-iron metals

APPLICABLE INDUSTRIES
- Aluminum door and windows
- Curtain wall
- Extruded aluminum machining
- Long material parts

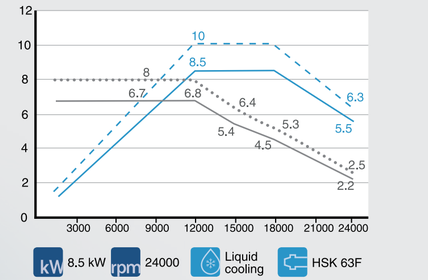
- The angular head can tilt to A-axis ±120° and spindle rotary C-axis ±220°, making it suitable for angular drilling and tapping operations. Suitable for face milling and multi-surface machining in one setup.
- Tilting degree is adjusted through computer control.
- Angle indexing accuracy.
- A tool clamp/release button is provided on the angular head.
- The built-in spindle features high accuracy, low vibration, low noise, and no backlash.



Equipped with two-layer tool magazines for storing sawblades and cutting tools in both the upper and lower magazines, enabling fast tool changes.

The automatic clamp moving and positioning system, combined with an automatic clamp position sensing function, effectively prevents the cutting tool from accidentally damaging the clamp.

QX-2 8.5/12 24 63F NC



POTENZA / POWER S1 (KW)
POTENZA / POWER S6 50% (KW)
COPPIA / TORQUE S1 (NM)
COPPIA / TORQUE S6 50% (NM)

▶ (opt.)

Specially designed clamping for irregular workpieces to keep the clamping stable. The clamp is equipped with roller to avoid workpiece damage.

MODEL	UNIT	JIH-CNC S5 (5 Axes)
STROKE		
X Axis stroke	mm	3,500/ 4,500 / 5,500/ 6,500 (Opt.)
Y Axis stroke	mm	400 (5 axis) (3 axis: 700)
Z Axis stroke	mm	800 (With sawblade stroke 350)
A Axis swivelling angle	degree	±120°
C Axis swivelling angle	degree	±220°
TABLE		
Table type		Vise
Table size	mm	400 x 3,500 ~ 6,500
Table height from floor	mm	680
SPINDLE		
Spindle speed	R.P.M	20,000
Spindle motor	kw (HP)	7.5kw(10HP)
Spindle taper cone		HSK 63F
Sawblade size		16" X 1" bore
FEED RATE		
Rapid feed rate (X / Y / Z)	m/min	X:50 (Opt. 70),Y:24,Z:24, A:75° /S , C:75° /S
Servo motors of 3 axes	kw	X:2 .9 KW, Y: 850 W, Z: 1.8 kW, A: 750 W, C: 750 W
Cutting feed rate	mm/min	F:1~5,000
ATC		
Magazine capacity		12 Tools
Tool holder		HSK63F
DIMENSIONS		
Machine weight	kgs	4,500~6,500
Machine dimensions	mm	8,000~11,000x3,150x3,900
Packing dimensions	mm	8,100~11,100x 2,300x2,450
Required pneumatic pressure	kg/cm²	6

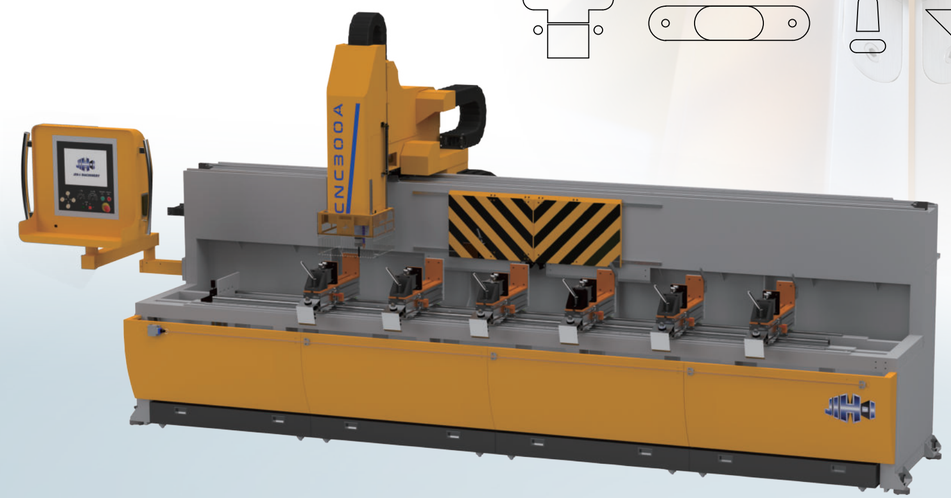
- We reserve the rights to modity above specification without notice.

JIH-CNC300A

3-Axis Traveling Column Light Profile Machining Center

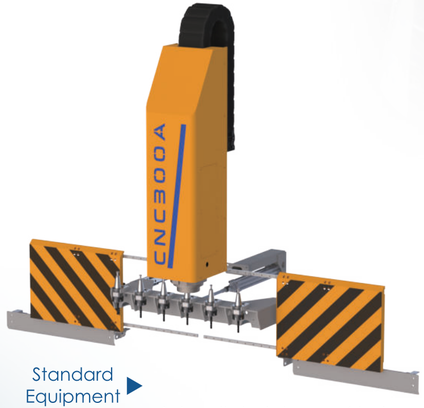
- X-axis travel options: 3,500 / 4,500 / 5,500 / 6,500 mm
- Workbench type: Fixture
- Spindle speed: 18,000 RPM
- Automatic tool changer: 6 tools
- Moving column structure: High-efficiency, high-precision machining
- All three axes utilize advanced precision linear guides
- Y & Z axes: Equipped with ball screws driven directly by servo motors, eliminating belt backlash issues, achieving high transmission efficiency and precise positioning
- New-generation PC-based controllers available: Mitsubishi, Fanuc, Siemens (selectable)
- Optional: Rotary C-axis

System furniture processing



Optional Equipment ▶

Rotary C-axis



Standard Equipment ▶

Automatic tool changer: 6 tools

MODEL	UNIT	JIH-CNC 300A (OPT.Additional C-Axis)
STROKE		
X Axis stroke	mm	3,500
Y Axis stroke	mm	340
Z Axis stroke	mm	450
TABLE		
Table type		VISE(1set/per meter)
Table size	mm	250 x 3,500
Table height from floor	mm	1,140
SPINDLE		
Spindle speed	R.P.M	18,000
Spindle motor	kw (HP)	5.5kw(7.5hp)
Spindle taper cone		NBT30
FEED RATE		
Rapid feed rate(X/Y/Z)	m/min	X:100,Y:36,Z:36
Servo motors of 3 axes	kw	X:1,Y:0.75,Z:0.75,C:0.4
Cutting feed rate	mm/min	F:1~5,000
ATC		
Magazine capacity		6Tools(**Opt.** 4sides 90˚ **angel** head)
Tool holder		NBT30
DIMENSIONS		
Machine weight	kgs	3,800
Machine dimensions	mm	4,332 x 2,237 x 2,208
Packing Dimensions	mm	4,700 x 2,300 x 2,240
Required pneumatic pressure	kgs/cm^2	6

- We reserve the rights to modity above specification without notice.

JIH-CNC 48B 3-Axis Traveling Column Gantry CNC Router

▼ Opt

Grooving saw blade angle head

▼ Opt

C-axis 360° angle rotation mechanical structure

SUITABLE WORKING FOR

- Castable aluminum door
- Casting copper door
- Aluminum composite panels
- Any kind of panel
- Acrylic
- Non metal material etc

MODEL	UNIT	JIH-CNC 48B
STROKE		
X Axis stroke	mm	2,470
Y Axis stroke	mm	1,250
Z Axis stroke	mm	250 (Opt. 700)
Distance from spindle nose to table surface	mm	50~300
FEED RATE		
Repeatability accuracy	mm / min	5,000
X Axis rapid feed rate	M / min	36
Y Axis rapid feed rate	M / min	36
Z Axis rapid feed rate	M / min	24
SPINDLE		
Motor	kw (HP)	7.5
X Axis Motor	kw	1.3X2
Y Axis Motor	kw	1.3
Z Axis Motor (Brake)	kw	1.3
Working table size	mm	820
Max. range of processing	mm	1,250 ~ 2,470
Spindle speed	R.P.M.	1,000~24,000
ATC		
Magazine capacity		8
Tool holder		ISO 30
Collet		ER-32
DIMENSIONS		
Vacuum zone		2 zone (vacuum suction cup) 40 bar
Required pneumatic pressure	kg/cm²	6
Machine dimensions	mm	5,800 x 2,900 x 2,100
Machine weight	kgs	4,800

- We reserve the rights to modity above specification without notice.

JIH-CNC650G Heavy Duty Gantry Type Double Column Machining Center

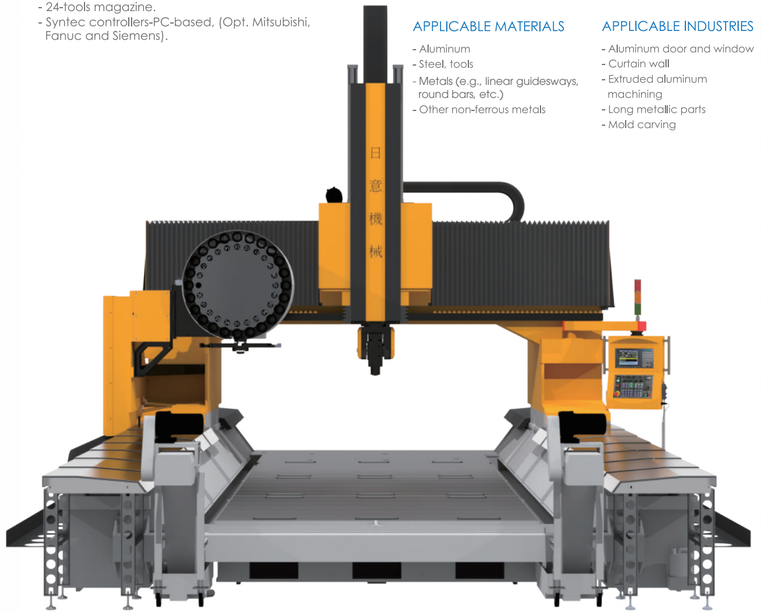
- Fixed table in combination with the traveling column and beam, makes the machine ideal for machining extra-large workpieces.
- X-axis travel is transmitted via a pinion-and-rack system and driven by a European-imported gearbox, offering high torque output, zero backlash, and optional high positioning accuracy.
- A-axis rapid traverse rate is 36 m/min. Upon request, a higher rapid traverse rate of up to 50 m/min is available (optional).
- All three axes are equipped with P-class, high-precision linear guideways.
- X, Y, and Z-axis ball screws are directly coupled to servo motors.
- 24-tools magazine.
- Syntec controllers-PC-based. (Opt. Mitsubishi, Fanuc and Siemens).

APPLICABLE MATERIALS

- Aluminum
- Steel, tools
- Metals (e.g., linear guideways, round bars, etc.)
- Other non-ferrous metals

APPLICABLE INDUSTRIES

- Aluminum door and window
- Curtain wall
- Extruded aluminum machining
- Long metallic parts
- Mold carving



MODEL	UNIT	JIH-CNC 650G
STROKE		
X Axis stroke	mm	3,000 (Opt. 4,000 / 5,000 / 6,000)
Y Axis stroke	mm	2,500
Z Axis stroke	mm	1,200
Distance from spindle nose to table surface	mm	Min. 150, Max. 1,350
TABLE		
Table type		T-Slots
Table size	mm	2,500 x 3,000
Max. loading capacity	ton	20
T-Sloot (No. x Pitch x Size)	mm	15 x 18 x 400
SPINDLE		
Spindle speed	R.P.M.	6,000
Spindle Motor	kw (HP)	15 (Opt.18)
Spindle taper cone		BT50
FEED RATE		
Rapid traverse (X, Y, Z)	m / min	X: 16, Y: 20, Z:20
3-Axis servo motors	kw	X1=X2:4,Y:4; Z:7
Repeatability accuracy	mm	X:±0.03,Y:±0.02,Z:±0.02
Cutting feed rate	mm / min	1~5,000
ATC		
Magazine capacity		24 Tools
ATC type		Arm type
Tool holder		BT50
Pull stud	degree	45°
Max. tool length	mm	350
Max. tool diameter	mm	120
Max. tool weight	kgs	16
DIMENSIONS		
Machine weight	ton	50
Machine dimensions	mm	81,200 x 6,700 x5,400
Required pneumatic pressure	kg/cm²	6

- We reserve the rights to modity above specification without notice.

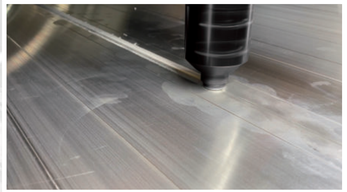
JIH-CNC6500F Friction Welding Machine

Applicable industry

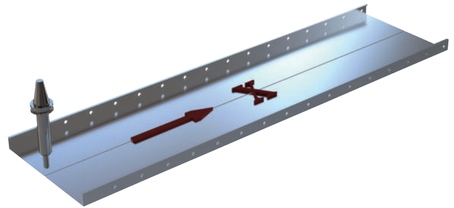
Construction aluminum formwork, automobile, green energy, conductive equipment, aerospace.

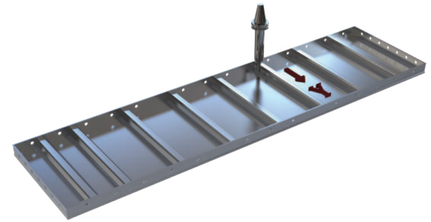
Technical characteristics

- The welding process utilizes the Friction Stir Principle, offering high efficiency and energy savings.
- It does not require filler wire or inert gas shielding.
- The base metal does not melt during the welding process, which is conducive to all-position welding.
- Low welding heat input, which can improve the joint strength of heat-treated aluminum alloys.
- No defects such as pores or cracks occur during welding.
- The process is free from splashes, smoke, and harmful emissions like infrared or ultraviolet radiation. This is a green, environmentally friendly welding method.
- Aluminum and copper can be welded.



Environmental protection, free from light pollution, no smoke pollution, firm, one-piece construction.





MODEL	UNIT	JIH-CNC F (X Axis)	JIH-CNC F(Y Axis)
STROKE			
X Axis stroke	mm	6,500	6,500
Y Axis stroke	mm	600	700
Z Axis stroke	mm	200	200
TABLE			
Table type		Vacuum Chuck	Table
Table size	mm	630 x 6,500	550 x 6,500
Table height from floor	mm	841	770
SPINDLE			
Spindle speed	R.P.M	3,500	4,000
Spindle motor	kw (HP)	26 kw (35HP)	22 kw (30HP)
Spindle taper cone		BT50	BT50
FEED RATE			
Rapid feed rate (X / Y / Z)	m/min	X:40 / Y:24 / Z:24	X:40 / Y:24 / Z:24
Servo motors of 3 axes	kw	X1:4.4 / X2:4.4 / Y:2.9 / Z:7.5	X1:5 / X2:5 / Y:3.5 / Z:7.5
Cutting feed rate	mm/min	F:1~5,000	F:1~5,000
DIMENSIONS			
Machine weight	kgs	13,000	14,500
Machine dimensions	mm	10,100 x 2,151 x 2,707	10,164 x 2,066 x 2,721
Packing dimensions	mm	10,500 x 2,300 x 2,300	10,500 x 2,300 x 2,300
Required pneumatic pressure	kgs/cm^2	6	6

- We reserve the rights to modity above specification without notice.

JIH-CNC Z Simple milling machine

- Basic CNC machining configuration.
- Simple and user-friendly operation.
- Assists in machining light and thin parts.
- Capable of milling holes, slots, hardware holes, and combined holes.
- Features manual tool changes.
- Powered by a new-generation PC-based system.
- Optional dual spindle heads are available.
- Suitable for industries such as aluminum doors and windows, furniture,system cabinets, and solar energy.

System furniture processing drawing

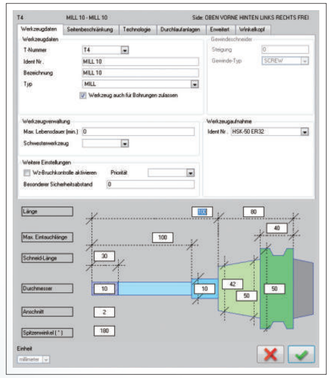
MODEL	UNIT	JIH-CNC Z
STROKE		
X Axis stroke	mm	1500
Y Axis stroke	mm	350
Z Axis stroke	mm	400
SPINDLE		
Spindle speed	R.P.M	Max 12000 RPM
Spindle motor	HP	3HP
Tool diameter		ER32 (2.5mm-20mm)
FEED RATE		
Rapid feed rate (X / Y / Z)	m/min	X:30/Y:30/Z: 30
Servo motors of 3 axes	kw	X:0.75/Y:0.75/Z:0.75
DIMENSIONS		
Machine weight	kgs	700
Machine dimensions	mm	1400x1300x1900
Packing dimensions	mm	1920x1670x2200
Required pneumatic pressure	kgs/cm²	6

- We reserve the rights to modity above specification without notice.

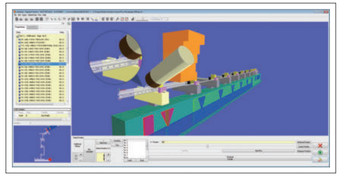
J-CAM software function preview

- Suitable for all machine types
  Supports 3-, 4-, and 5-axis functions
- Centralized, machine-independent programming in a single user interface
- A user interface suitable for all tasks
- Automatically generated depth table
- Parameterizable structure: supports flexible free-milling contours enabled by variable coordinates
- Smart Fixture Management and Reliable Collision Control
- Automatic tool assignment
- CNC machining simulation with spindle and fixture, view of machine bed
- Fixture Database
- Import free contours in DXF format
- Select function to choose any point in profile as reference work coordinate
- Create custom macro in database
- Flexibility to adapt to production process
- Direct control center

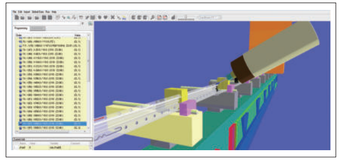
CNC software for aluminum profile milling



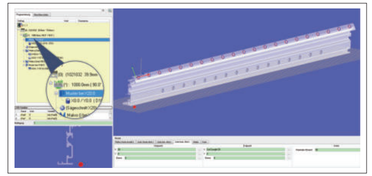
Define tool assignments



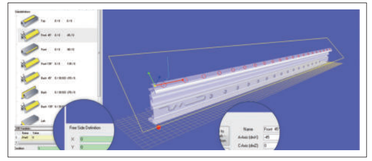
Fixture collision interference preview



CNC-milling process preview



Neat tree view



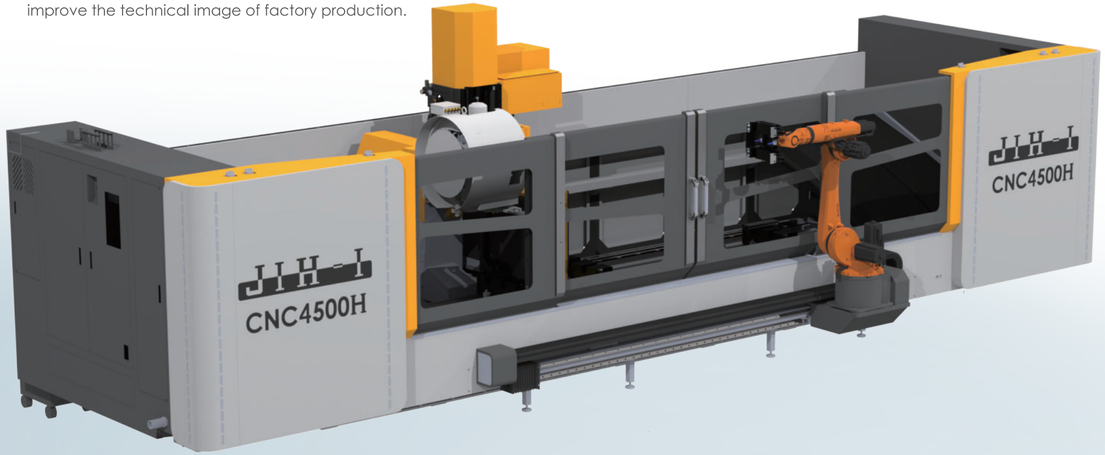
Free edge definition

JIH-CNC Auto robot

Excellent and stable production efficiency endows the robot with extremely high economic benefits. A robot can work 24 hours a day without interruption, and the work quality is excellent and consistent. If the robot is not used, the machine tool utilization rate is about 70%, and if the robot is used, it can reach nearly 100%, because the robot does not need to rest.

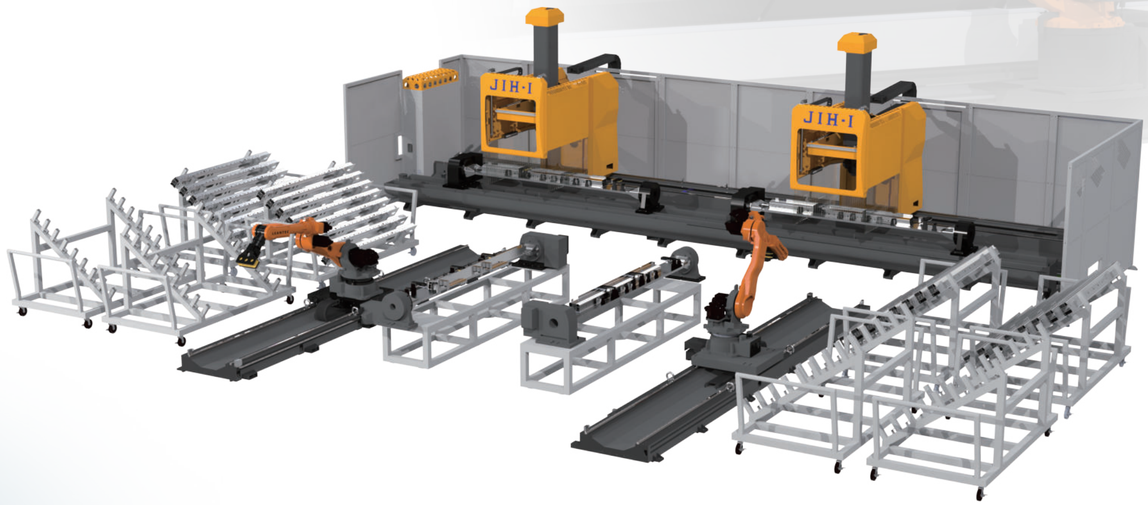
Save labor costs and improve production efficiency

- It can meet the requirements of fast/large batches, save labor costs, and improve production efficiency, and can realize the needs of automatic feeding, unloading, and workpiece turnover of workpieces with irregular shapes, metal plates, and aluminum extrusion.
- The flexible combination of various CNC processing machines, automatic loading and unloading and workpiece clamping with multiple degrees of freedom, meet the difficult production technical requirements.
- It can realize multi-line automatic production line and "digital" factory layout, save manpower to the greatest extent, and improve the technical image of factory production.



How to convert from traditional manpower to robotic system?

In the pre-operation, we need to understand your processing process, including processing method, positioning method and single-piece processing time (if you can provide photos or videos, it will be more conducive to our system planning).
We need to understand your inspection standards and acceptance specifications, including current inspection methods, inspection instruments, allowable tolerances, inspection tool models, inspection tool manufacturers, inspection tool calibration methods and cycles.



Outstanding Features

- Syntec controller
- Tool magazine (tool optional)
- Oil mist cooling system
- Spindle air blast device
- Automatic lubrication system for 3 axes linear guideways
- Tool box with adjustment tools
- Telescopic guards on 3 axes
- Emergency wire stop
- Automatic alarm lamp
- Heat exchanger for electrical cabinet

ADVANCED CNC CONTROLLER OPTIONAL

- Machines are equipped with Syntec PC-Base CNC controller, easy to learn and easy to operate.
- Mitsubishi, Fanuc or Siemens controller is optional.

Syntec controller

Mitsubishi controller

Fanuc controller

Planetary gear reducer

Chain type chip conveyor

-H, type(Std.)
(M, S, E type Opt.)

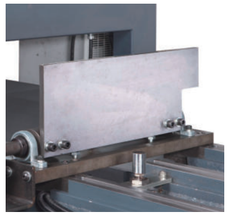
C-axis 360°angle rotation mechanical structure

4th Axis device

Angle head

Optional Equipment

- Syntec / Mitsubishi / Fanuc / Siemens controller
- BT50 tool magazine (tool optional)
- C.T.S
- Air conditioner for electrical cabinet
- Angle head tool holder
- BT50 spindle
- 4th axis
- Tailstock for 4th axis
- Fully enclosed splash guard
- Marposs tool breakage detector
- Marposs on-machine measuring device



Reference stopper

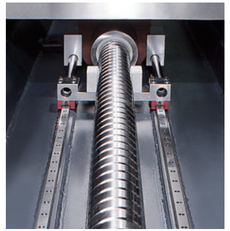
Multifunctional adjustable vise

Pneumatic vise

Spiral Chip Conveyor

Hydraulic vise

Wireless handwheel



BALL SCREW (X axis)

The X-axis is transmitted through a Ø80 mm extra-large ball screw, which is supported by two blocks to improve self-deflection of the screw. This helps upgrade positioning accuracy on the X-axis.

IMPORTED HIGH PRECISION GEAR REDUCER

The X-axis movement is driven by a servo motor and transmitted through high precision ball screw with gear reducer. This special design not only produces powerful driving force, but also provides high positioning accuracy on the X-axis.