



JIH-CNC H



JIH-CNC M



JIH-CNC E



JIH-CNC S4



JIH-CNC S5



JIH-CNC 48B



JIH-CNC 650G

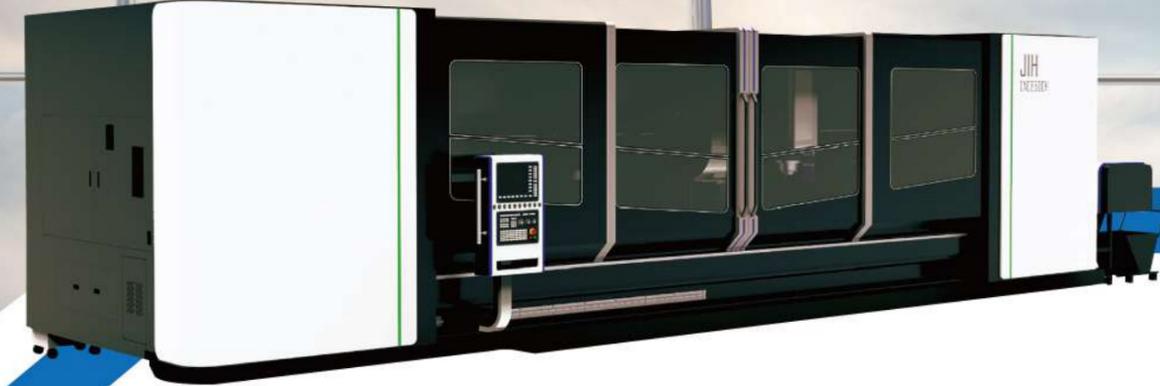


JIH-CNC SD5



JIH-I MACHINERY

www.jih-i.com



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



JIH-I MACHINERY

JIH-I Machinery Co., Ltd.

No. 348, San Ho Rd., Feng Yuan Dist., Taichung City, Taiwan.
No. 175, Ln. 354, San Ho Rd, Feng Yuan Dist., Taichung City, Taiwan.

+886-4-25328325 +886-4-25321325
vd146829@ms2.hinet.net www.jih-i.com



ACW 2019.09.2000E



Company Profile

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, in order to meet market demands, Jih-I has specialized in the design and manufacture of high-speed cut-off saws, NC fully automatic high production saws, CNC machining centers, 45-degree miter saws, and hydraulic punching machines. Based on the ever-changing spirit in machine research, Jih-I has offered diversified products to customers, ranging from semi-automatic machines to CNC fully automatic machines. And our product range is expanding constantly.

Jih-I's outstanding manufacturing capabilities, in combination 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 Travel column type machining center



Extra Fine Craftsmanship The Ultimate in Performance Designed for Long and Short Workpiece Machining

Designed and engineered for those who require maximum efficiency and versatility, the JIH-CNC6500H from Jih-I Machinery is a value added machine for working extra-long workpieces. It's also ideal for multi-stage machining on short workpieces. This machine is designed with a travelling column and a rugged construction. It is equipped with a 24 tool automatic tool changer, which allows this machine to fully develop its multi-tasking functions. With the JIH-CNC6500H, you get greater efficiency and increased profits.



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

APPLICABLE INDUSTRIES

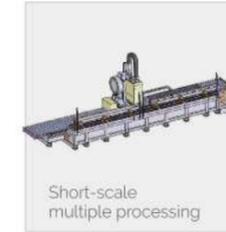
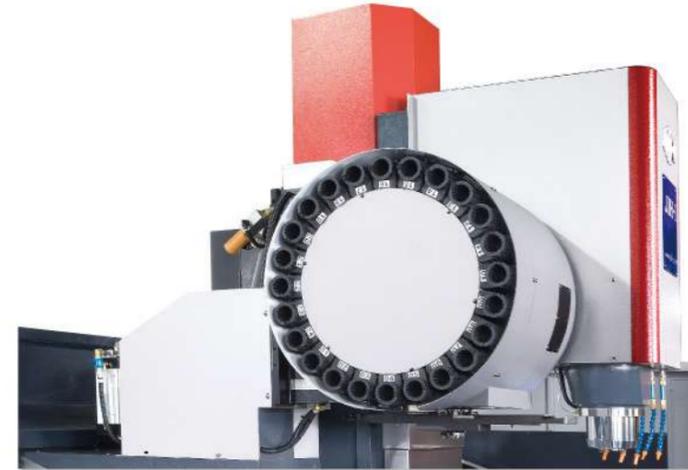
- Aluminum door and window
- Canopies
- Extruded aluminum machining
- Long metallic parts

APPLICABLE MATERIALS

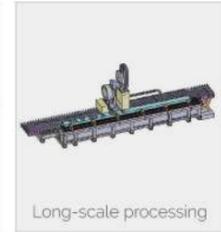
- Aluminum
- Steel, copper
- Metal (such as: linear ways and round rod, etc.)
- Other non-ferrous metals
- Linear guide way machining

DIRECT DRIVE SPINDLE

The spindle eliminates wearing problems which may occur on a belt transmission unit, while providing features of quiet and fast low noise running during machining.



Short-scale multiple processing



Long-scale processing



Multiple area processing



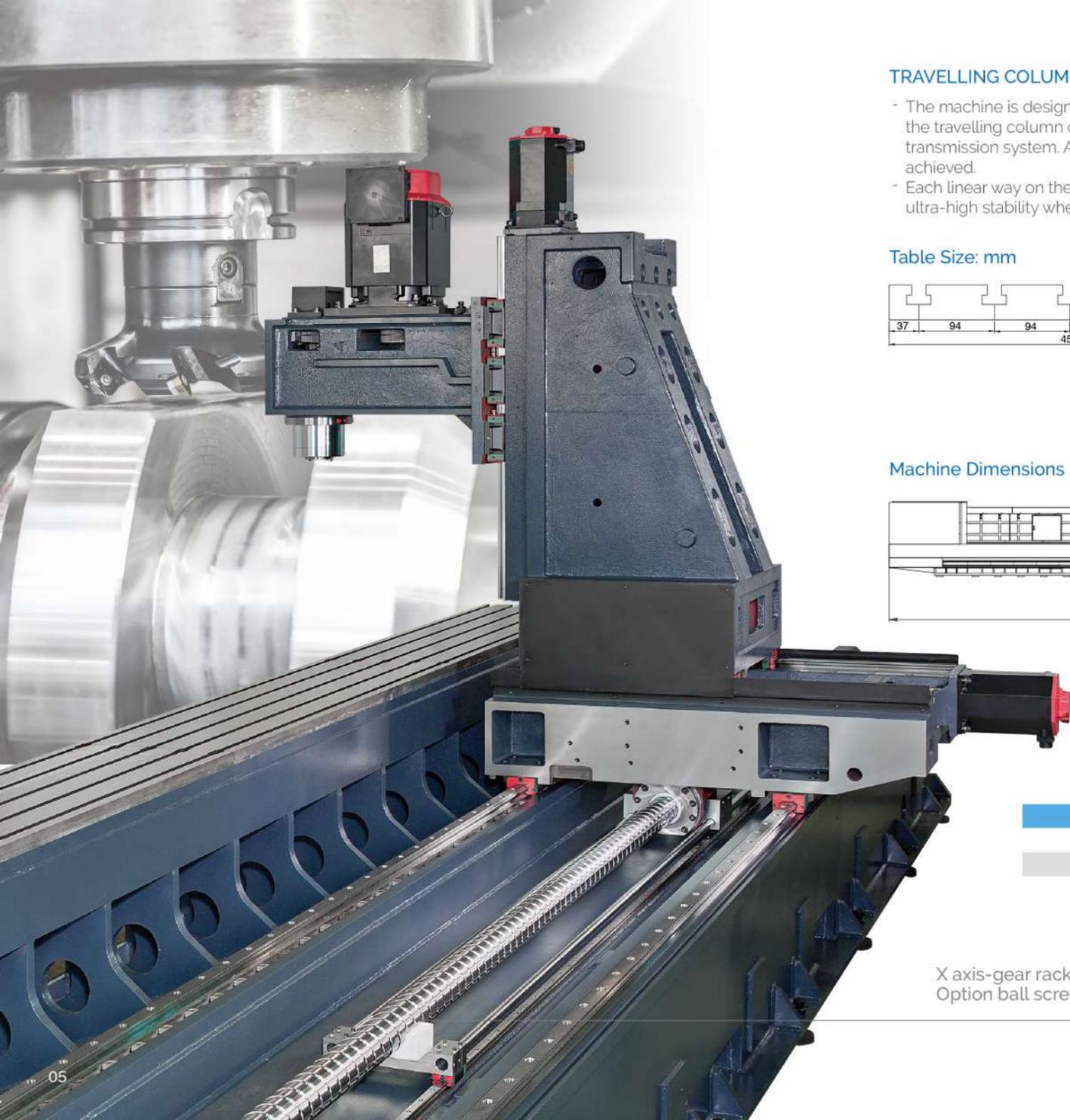
4th axis processing (opt.)

Robust Construction Heavy Cutting Resistance Versatile Machining Capabilities

- The base is fabricated from heavy gauge steel plates and scientifically reinforced, allowing for solid support for the column and workpieces.
- Travelling column design features increased machining efficiency and accuracy.
- The oversized box-type column is manufactured from high quality cast iron.
- Large diameter ball screw on x-axis is firmly supported to eliminate self-deflection problems.
- 3 axes adopt 45 mm P class high precision linear guide ways; X axis features 8 blocks, Y and Z axis are 6 blocks.
- Automatic lubricator delivers lubrication oil to all linear ways and ball screws.
- 3 axes ball screws are direct coupled with drive motors, featuring no backlash, high transmission efficiency and high accuracy.



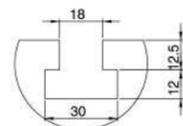
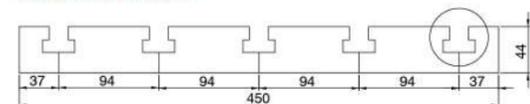
Optional Double Head



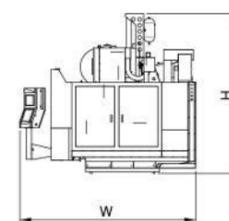
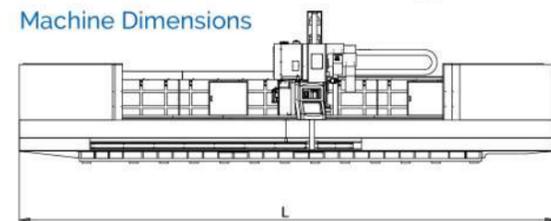
TRAVELLING COLUMN

- The machine is designed with a travelling column and a fixed table. With the travelling column configuration, workpiece weight will not affect the transmission system. As a result, consistent machining accuracy can be achieved.
- Each linear way on the Y-axis is fitted with 3 sliding blocks to assure 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
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)	11 (15)
Spindle taper cone	R.P.M	BT40 (Opt.BT50 6,000)
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	m/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	100
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.

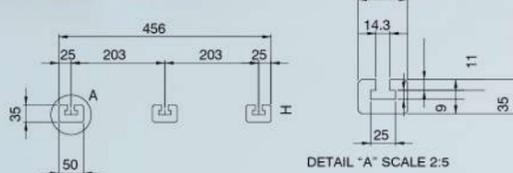
JIH-CNC M CNC Machining Center



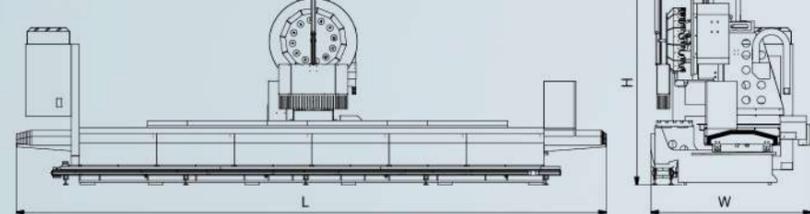
Combined Efficiency And Precision Model

- 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 turret type magazine.
- Travelling column design features increased machining efficiency and accuracy.
- The oversized box-type column is manufactured from high quality cast iron.
- Three axes are equipped with high precision linear guide ways.
- Three axes ball screws are directly coupled with servo motors, featuring no backlash, high transmission efficiency and high accuracy.
- Fully enclosed splash guard.
- Choice of various controllers – PC-based, Mitsubishi, Fanuc and Siemens.

Table Size: mm



Machine Dimensions



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

unit:mm

APPLICABLE INDUSTRIES

- Aluminum door and window
- Canopies
- Extruded aluminum machining
- Long metallic parts

APPLICABLE MATERIALS

- Aluminum
- Bronze
- Metal (such as: linear 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	8,000 (Std.) 10,000 / 12,000 (Opt.)
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	m/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	100
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 modify above specification without notice.

JIH-CNC E 3 axes CNC 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), 24,000 RPM (optional).
- 8-tool disk type magazine.
- Travelling column design features increased machining efficiency and accuracy.
- Three axes are equipped with high precision linear guide ways.
- X-axis ball screw is directly coupled with servo motor.
- Choice of various controllers – PC-based, Mitsubishi, Fanuc and Siemens.
- Italian imported built-in spindle.



AUTOMATIC TOOL CHANGER

- 8-tools disk type magazine.
- Accommodates ISO 30 tools.



H.S.D SPINDLE
ITALIAN IMPORTED

APPLICABLE MATERIALS

- Aluminum
- Plastic steel
- Other non-ferrous metals

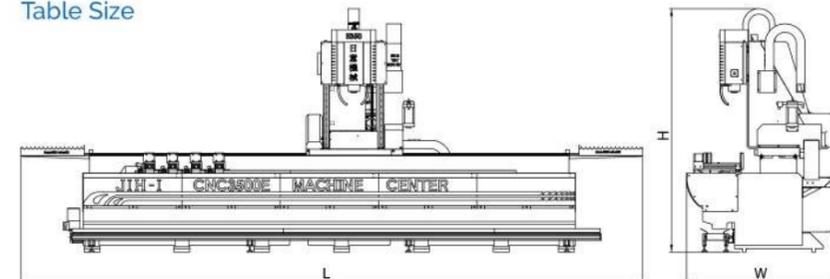
APPLICABLE INDUSTRIES

- Aluminum door and window
- Canopies
- Extruded aluminum machining

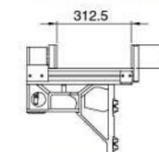
MODEL	UNIT	JIH-CNC 6500 E (3 axes)
STROKE		
X Axis stroke	mm	3,500 / 4,500 / 5,500 / 6,500 (Opt.)
Y Axis stroke	mm	300
Z Axis stroke	mm	200
Distance from spindle nose to table surface	mm	Min. 150, Max. 350
TABLE		
Table type		Vise (Opt.)
Table size	mm	300 x (3,500 - 6,500)
T-Slot (No. x Pitch x Size)	mm	850
SPINDLE		
Spindle speed	R.P.M	18,000 (Opt. 24,000)
Spindle motor	kw (Hp)	7.5
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 1,700 x 2,300
Required pneumatic pressure	kg/cm ²	6

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

Table Size



Machine Dimensions



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

unit:mm

JIH-CNC S4 4 axes CNC machining center



◀ Cover for spindle and back side (Opt.1)

- 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 disk type magazine.
- Travelling column design features increased machining efficiency and accuracy.
- Three axes are equipped with high precision linear guide ways.
- 3-axis ball screw is directly coupled with servo motor.
- Syntec controllers - PC-based. (Opt. Mitsubishi, Fanuc and Siemens).
- Fully enclosed splash guard (Opt.)

APPLICABLE MATERIALS

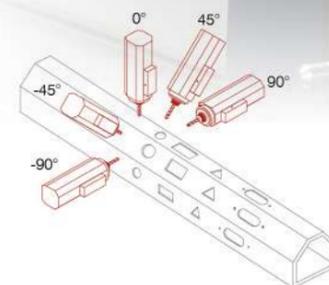
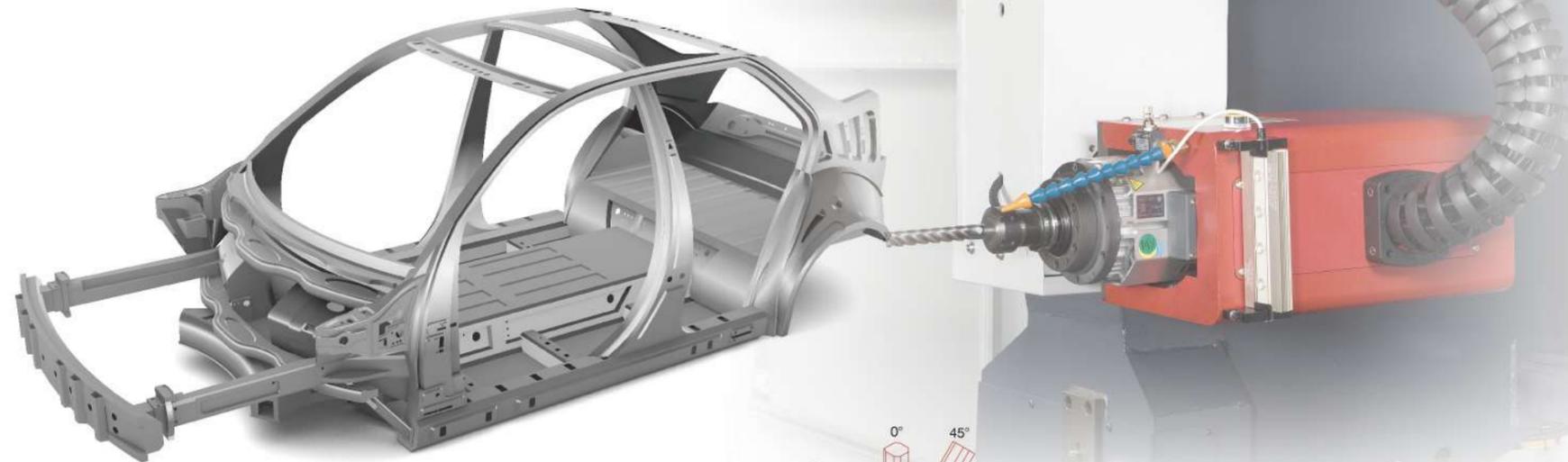
- Aluminum
- Other non-ferrous metals

APPLICABLE INDUSTRIES

- Aluminum door and window
- Canopies
- Extruded aluminum machining
- Long material parts



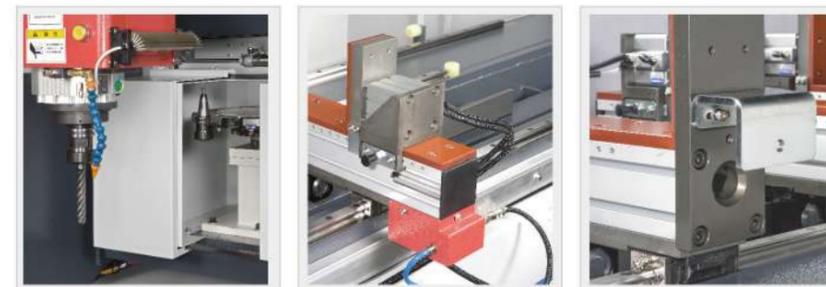
H.S.D SPINDLE
ITALIAN IMPORTED



- ▶ Spindle tilting $\pm 90^\circ$ (Opt.)
- ▶ Vise moving automatically (Opt.)



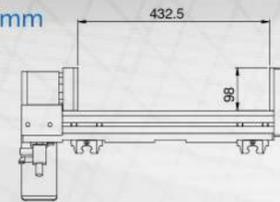
▶ Whole cover for front and back side (Opt.2)



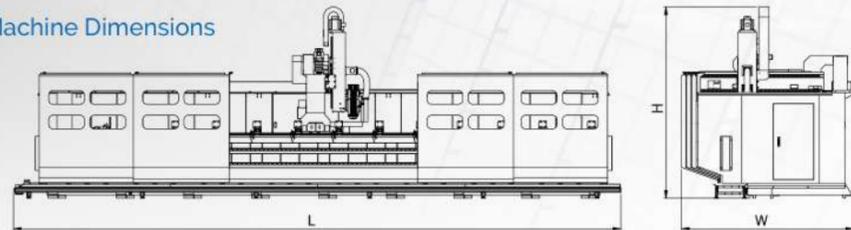
4 AXIS SPINDLE TILTING

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

Table Size: mm



Machine Dimensions



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



MODEL	UNIT	JIH-CNC S3 (3 Axes)	JIH-CNC S4 (4 Axes)
STROKE			
X Axis stroke	mm	3,500 / 4,500 / 5,500 / 6,500 (Opt.)	3,500 / 4,500 / 5,500 / 6,500 (Opt.)
Y Axis stroke	mm	450	450 (A0°) / 200(4 axes) / A+90° A-90°
Z Axis stroke	mm	500	500
TABLE			
Table type		Vise (1 set / per meter)	Vise (1 set / per meter)
Table size	mm	432 x (3,500 ~ 6,500)	432 x (3,500 ~ 6,500)
Table height from floor	mm	950	950
SPINDLE			
Spindle speed	R.P.M	18,000 (Opt. 24,000)	18,000 (Opt. 24,000)
Spindle motor	kw	7.5	7.5
Spindle taper cone		ISO 30	ISO 30
Sawblade size		10"X1" Bor (With 90° angular head)	10"X1" Bor (With 90° angular head)
FEED RATE			
Rapid feed rate (X, Y, Z)	M/min	X: 50 (Opt. 80), Y: 24, Z: 24	X: 50 (Opt. 70), Y: 24, Z: 24
Servo motors of 3 axes	kw	X: 2, Y: 1, Z: 2	X: 2, Y: 1, Z: 2, A: 750w
Repeatability accuracy	m/mm	F: 1~5,000	F: 1~5,000
ATC			
Magazine capacity		8 Tools (Opt. 12 Tools)	8 Tools (Opt. 12 Tools)
Tool holder		ISO 30	ISO 30
DIMENSIONS			
Machine weight	kgs	4,500~6,500	4,500~6,500
Machine dimensions	mm	6,000~9,000 x 2,500 x 3,200	6,000~9,000 x 2,500 x 3,200
Packing dimensions	mm	6,100~9,100 x 2,300 x 2,450	6,100~9,100 x 2,300 x 2,450
Required pneumatic pressure	kgs/cm ²	6	6

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

JIH-CNC S5 5 axes CNC machining center



C Axis 220°

A Axis 120°



APPLICABLE MATERIALS

- Aluminum
- Other non-iron metals

APPLICABLE INDUSTRIES

- Aluminum door and windows
- Canopies
- Extruded aluminum machining
- Long material parts

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



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



Equipped with two-layer tool magazines for storing sawblade and cutting tools on both upper and lower magazine, featuring fast tool change.

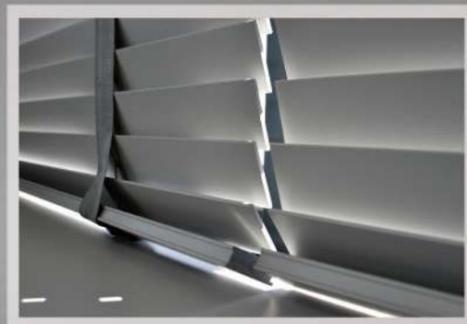


Automatic clamp moving and positioning system combined with automatic clamp position sensing function effectively prevents cutting tool from damaging the clamp accidentally

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	$\pm 120^\circ$
C Axis swivelling angle	degree	$\pm 220^\circ$
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	7.5
Spindle taper cone		HSK 63F
Sawblade size		16" X 1" bor
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
Repeatability accuracy	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 ~ 11,000 x 3,150 x 3,900
Packing dimensions	mm	8,100 ~ 11,100 x 2,300 x 2,450
Required pneumatic pressure	kg/cm ²	6

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

JIH-CNC 48B 3 axes CNC router



SUITABLE WORKING FOR

- Castable aluminum door
- Casting copper door
- Aluminum composite panels
- Any kind of panel
- Acrylic
- Non metal 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	7.5
X Axis Motor	kw	1.3 x 2
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	pcs	8
Tool holder		ISO 30
Collet		ER-32
DIMENSIONS		
Vacuum zone		2 zone (vacuum suction cup) 40 bar
Required pneumatic pressure	kg/cm ²	6
Machine dimensions	mm	5,800 x 2,900 x 2,100
Machine weight	kgs	4,800

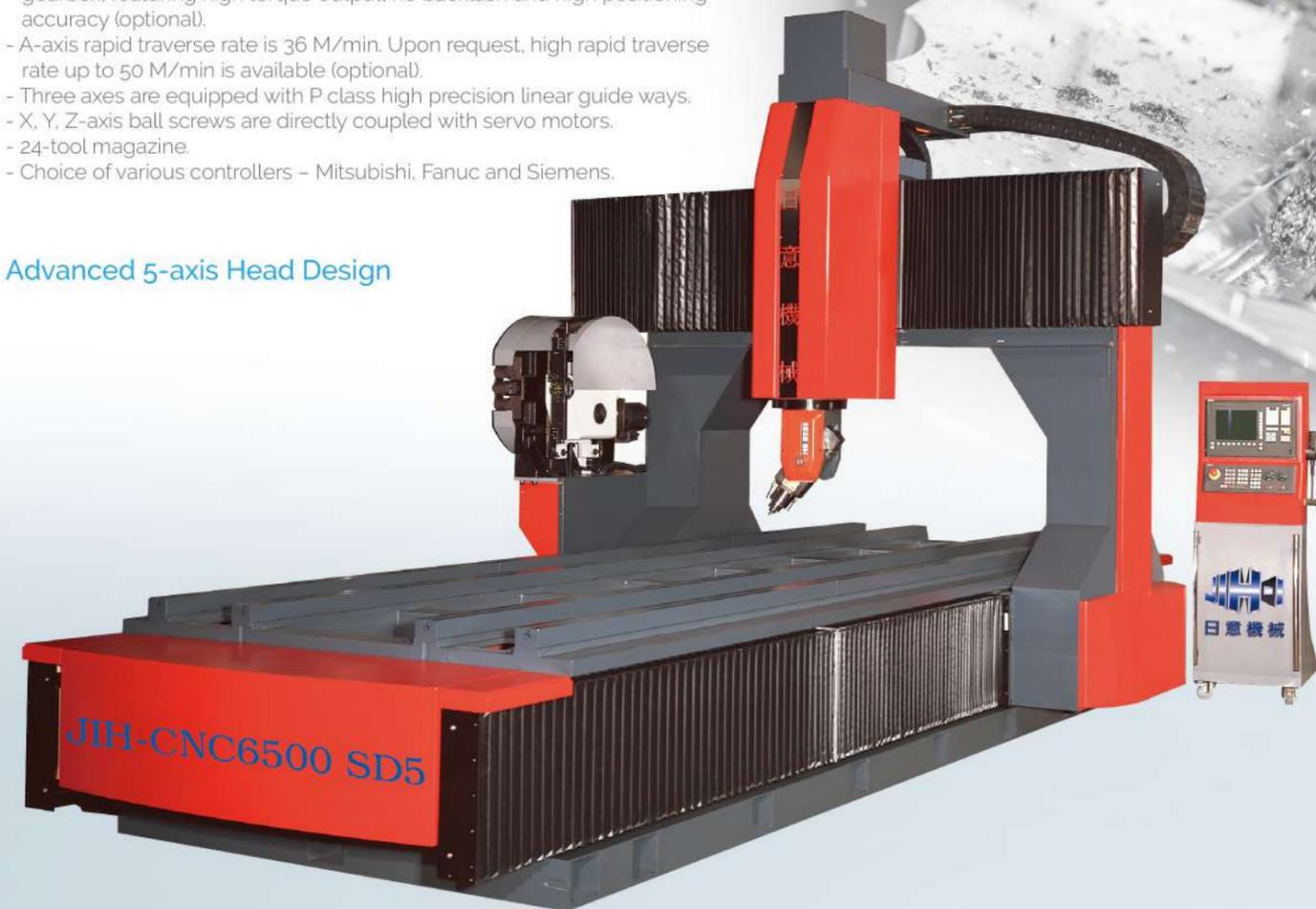
- We reserve the rights to modify above specification without notice.

JIH-CNC SD5 Travelling double column 5-axis machining center



- Fixed table in combination with travelling column and beam that makes the machine suitable for machining extra large workpieces.
- Advanced 5-axis head is designed for any angular position.
- X-axis travel is transmitted through pinion/rack and driven by European-imported gearbox, featuring high torque output, no backlash and high positioning accuracy (optional).
- A-axis rapid traverse rate is 36 M/min. Upon request, high rapid traverse rate up to 50 M/min is available (optional).
- Three axes are equipped with P class high precision linear guide ways.
- X, Y, Z-axis ball screws are directly coupled with servo motors.
- 24-tool magazine.
- Choice of various controllers – Mitsubishi, Fanuc and Siemens.

Advanced 5-axis Head Design



APPLICABLE MATERIALS

- Aluminum
- Acrylic
- Glass fiber
- Wooden

APPLICABLE INDUSTRIES

- Wooden
- Canopies
- Extruded aluminum machining
- Long metallic parts
- Mold carving

MODEL	UNIT	JIH-CNC6500 SD5
STROKE		
X Axis stroke	mm	3,700 (Opt. 6,500)
Y Axis stroke	mm	1,950
Z Axis stroke	mm	700
C Axis stroke	degree	±213°
A Axis stroke	degree	±120°
Distance from spindle nose to table surface (Vertical)	mm	20
Distance from spindle nose to table surface (Horizontal)	mm	245
TABLE		
Table size	mm	1,700 x 3,600
Max. loading capacity	kgs	3,000
SPINDLE		
Spindle speed	R.P.M.	24,000
Motor	kw	18
Taper		HSK F63
FEED RATE		
Rapid traverse (X,Y,Z)	M/min	X: 36, Y: 40, Z:40
Cutting feed rate	mm/min	F: 1~5,000
3-Axis servo motors	kw	X: 7.75 x 2, Y: 7.75, Z: 7.75
ATC		
Magazine capacity		24 Tools
ATC type		Arm type
Max. tool length	mm	300
Max. tool diameter	mm	100
Max. tool weight	kgs	7
DIMENSIONS		
Machine weight	kgs	20,000
Machine dimensions	mm	6,000 x 3,300 x 3,300
Required pneumatic pressure	kg/cm ²	6

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

Model	6500SD5	3500S
L x W x H	6000x3300x3300	5800x2550x2500
T-Slot	3700x1690	3500x400

unit:mm

SPECIFICATIONS

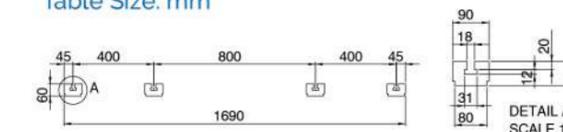
A-axis tilting angle	±120°
C-axis tilting angle	±245°
A-axis average torque output	500 Nm
C-axis average torque output	600 Nm
Weight	130 kg
S1 motor	10kW – 16kW
S6 motor	12kW – 18kW
Maximum speed	24,000 rpm



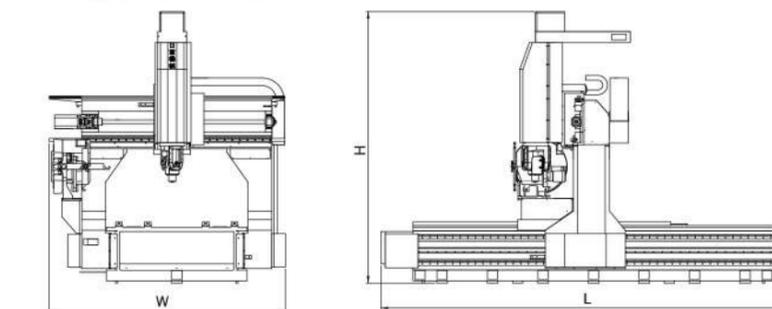
ELECTRONIC

- Single block processing time: 4 ms.
- Data memory: 2GB
- HMI: SINUMERK operation.
- Includes dynamic element and cycle-support of SINUMERK program GUIE.
- TOOL AND ZERO POINT MANAGEMENT: With tool life monitoring and graphic display. Also, includes tool management for various types of tools.
- PROGRAM MANAGEMENT: Equipped with SINUMERIK technical cycle and G code, and program GUIDE for program setting including dynamic element and quick browsing of graphics.
- SIMULATION: Employs top view and other views of drawings for simulating machining processes.
- SINGLE BLOCK SEARCH: For moving program to any section with or without calculation and execute program from this position to continue machining.
- TECHNICAL CYCLE: A standard turning and milling package includes any workpiece contour and geometrical calculator (optional).

Table Size: mm



Machine Dimensions



JIH-650G Gantry type double column machining center

- Fixed table in combination with travelling column and beam that makes the machine suitable for machining extra large workpieces.
- X-axis travel is transmitted through pinion/rack and driven by European-imported gearbox, featuring high torque output, no backlash and high positioning accuracy (optional).
- A-axis rapid traverse rate is 36 M/min. Upon request, high rapid traverse rate up to 50 M/min is available (optional).
- Three axes are equipped with P class high precision linear guide ways.
- X, Y, Z-axis ball screws are directly coupled with servo motors.
- 24-tools magazine.
- Syntec controllers-PC-based, (Opt. Mitsubishi, Fanuc and Siemens).

APPLICABLE MATERIALS

- Aluminum
- Steel, tools
- Metal (Such as: linear way and round bar, etc.)
- Other non-ferrous metals

APPLICABLE INDUSTRIES

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



MODEL	UNIT	JIH-CNC 650G
STROKE		
X Axis stroke	mm	6,500 (Opt. 10,000)
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 6,500
Max. loading capacity	ton	20
T-Slot (No. x Pitch x Size)	mm	15 x 18 x 400
SPINDLE		
Spindle speed	R.P.M.	6,000
Spindle Motor	kw	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	300
Max. tool diameter	mm	200
Max. tool weight	kgs	20
DIMENSIONS		
Machine weight	ton	50
Machine dimensions	mm	11,200 x 6,700 x 5,400
Required pneumatic pressure	kg/cm ²	6

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

Outstanding Features

- Syntec controller
- Tool magazine (tool optional)
- Oil mist cooling system
- Spindle air blast device
- Automatic lubrication system for 3 axes linear ways
- Tool box with adjustment tools
- Telescopic guards on 3 axes
- Emergency pulling string
- Automatic warning 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.

SINTEC controller



Mitsubishi controller



Fanuc controller



PNEUMATIC COUNTER BALANCE ON Z-AXIS (H and SD3 Standard)

- The Z-axis movement is counter- balanced by using an air cylinder, allowing the Z-axis to move more smoothly.
- The counter balance system is equipped with an accumulator to supply stable air flow at all times.
- For H model.



HEAT EXCHANGER FOR ELECTRICAL CABINET



PLANETARY GEAR REDUCER

CHAIN TYPE CHIP CONVEYOR

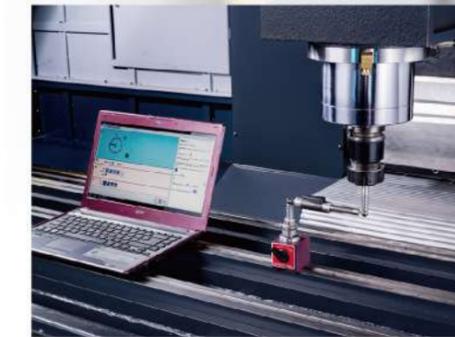
- H, type (Std.)
- (M, S, E type Opt.)



SPINDLE COOLER

- H, SD3, SD5 (Std.)
- M model spindle upto 12,000 rpm is optional.

Quality Control



SOPHISTICATED LASER INSPECTION

After each machine has been assembled, our experienced personnel applies a sophisticated laser instrument to inspect and calibrate ball screw pitch error and backlash, positioning accuracy, as well as repeatability on the X, Y and Z-axes. Through the laser inspection process, we can guarantee high feed accuracy on three axes, as well as overall machining accuracy.



BALL BAR TEST

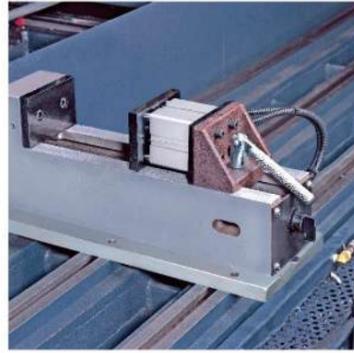
To assure the highest structural mechanical assembly accuracy, and to eliminate the reverse spike phenomenon, all machines are Ball Bar tested during the assembly processes. The test will calibrate the machine to the optimum status, thus extend the life time of axial ball screw and slideways.

Optional Equipment

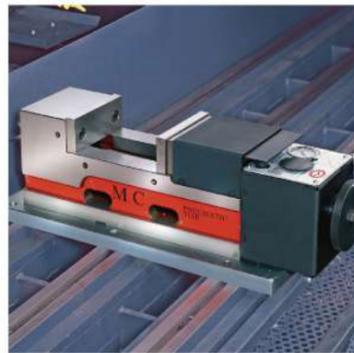
- Syntec / Mitsubishi / Fanuc / Siemens controller
- BT50 tool magazine (tool optional)
- C.T.S
- Air conditioner for electrical cabinet
- 90-degree head
- Twin travelling column
- BT50 spindle
- 4th axis
- Tailstock for 4th axis
- Fully enclosed splash guard
- Marposs tool breakage detector
- Marposs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



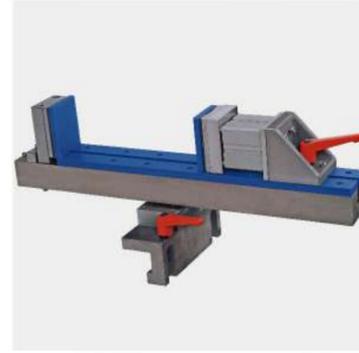
AIR FENCE (STOPPER)



PNEUMATIC-VISE2



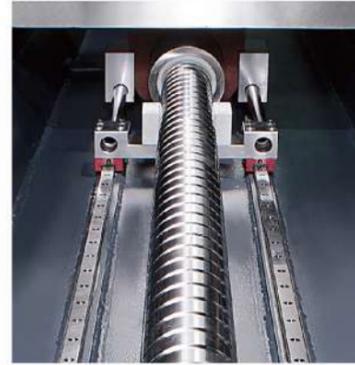
HYDRAULIC-VISE1



PNEUMATIC-VISE3 (BT30)



SCREW TYPE CHIP CONVEYOR



BALL SCREW (X axis)

The X-axis is transmitted through a $\varnothing 80$ 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.

Multiple Application



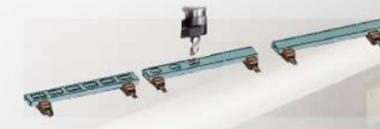
Multi-Machining for Short Workpieces

For machining short workpieces, the operator may mount the workpieces on the table to machine simultaneously.



Various Areas of Machining

With this mode of machining, greater efficiency can be obtained.



Extra Long Workpiece Machining

This machine is excellent for machining extra-long workpieces with only one setup. Suitable machining includes milling, drilling and tapping. With such machining modes, you can save considerable time.