

Sunmill
your best partner

FIVE-AXIS MACHINING CENTER



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Agent:



JEENXI TECHNOLOGY CO., LTD.

X5-350 / 450



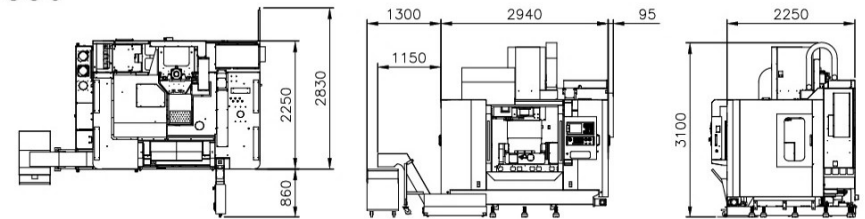
- Table Size $\varnothing 350\text{mm}$ / $\varnothing 450\text{mm}$
- Max. size of working piece $\varnothing 400 \times 300$ / $\varnothing 600 \times 300$
- Reduce clamping/unclamping error and improve loading and unloading time for workpiece.
- Direct type spindle 10,000rpm. Optional BBT40 Dual surface contact spindle, will ensure machining accuracy, high rigidity and increased tool life.
- Complex mold or parts processing could be finished at once, greatly reducing setup time and cycle time.
- Increased production capacity and decreases manufacturing cost with reduced fixture.

- Tilting axis (A axis) Swiveling Range:
 $120^\circ \sim -40^\circ$ (X5-350) / $30^\circ \sim -120^\circ$ (X5-450)
- Best rigidity supporting, high-precision, rotary axis (Indexing Accuracy / Repeatability) :
15/ 6 arc-sec.;
Tilting axis (Indexing Accuracy / Repeatability) :
45/ 8 arc-sec.
- Optional angle encoder can be used to ensure accuracy constant for tilting axis during the long working hours.

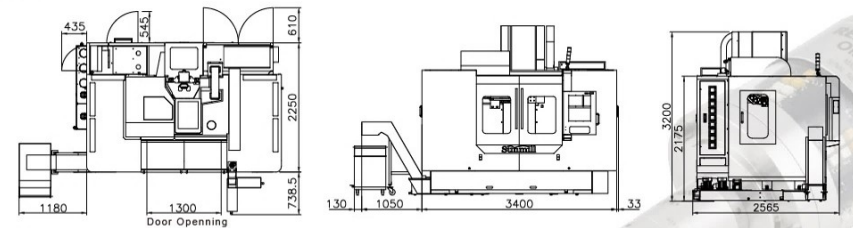


Machine Dimensions

X5-350

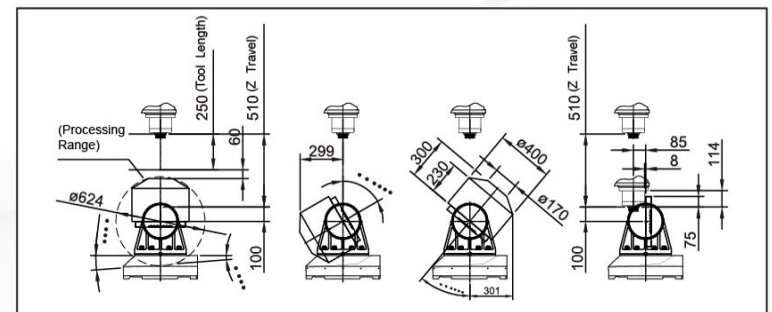


X5-450

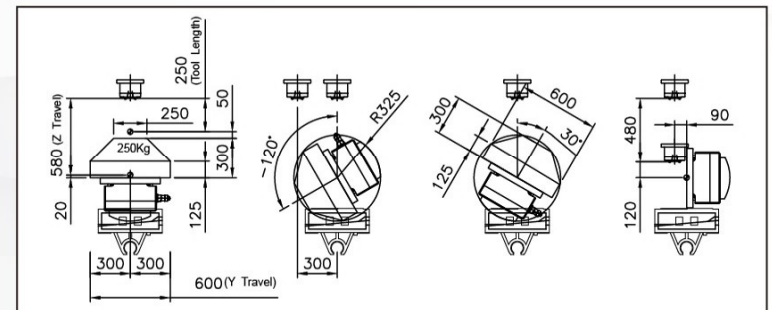


Processing Range

X5-350



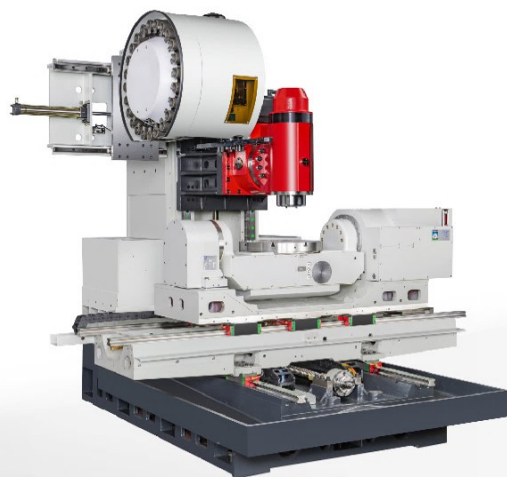
X5-450



UX-450

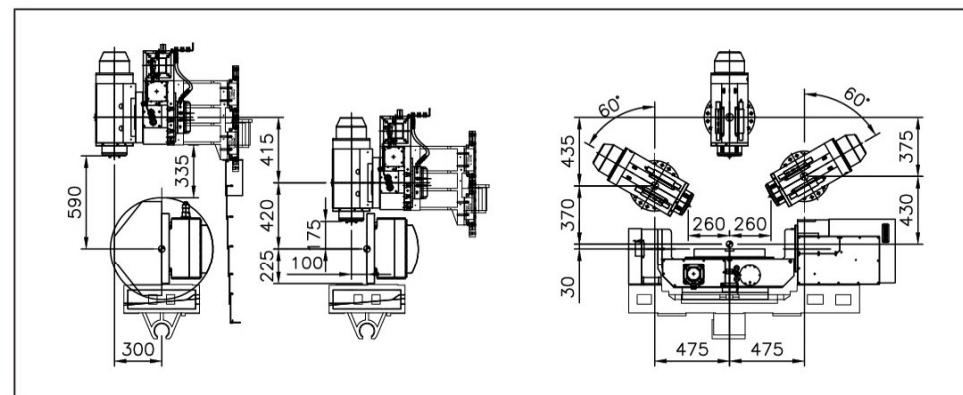


- Table Size Ø450mm
- A axis travel : 30° ~ -120°
- B axis travel : ±120°
- C axis travel : 360°
- High torque built-in spindle 15000rpm, Horsepower 21/25 kw
- Ballscrew cooling system of Z axis can solve problems on the thermal expansion.

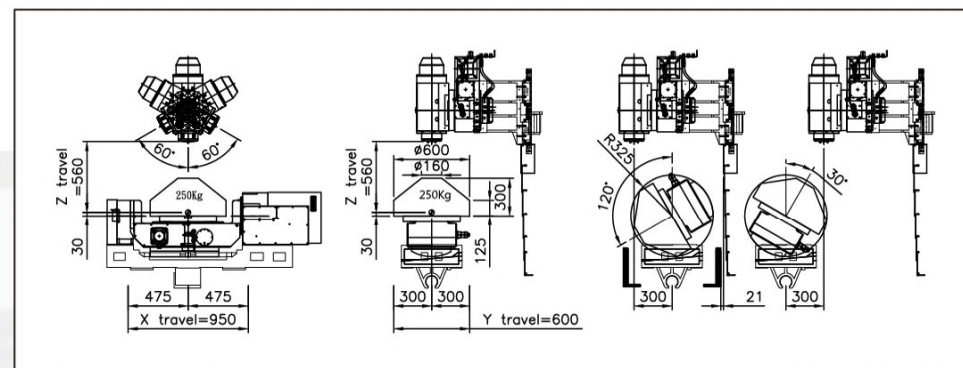


- In order to avoid collision issues between spindle and the tool magazine while the B axis is swinging, this model adopts a removable tool magazine design. The tool magazine is equipped with linear guideways and a hydraulic cylinder drive mode. After the tool change, the tool magazine will keep away from the spindle.

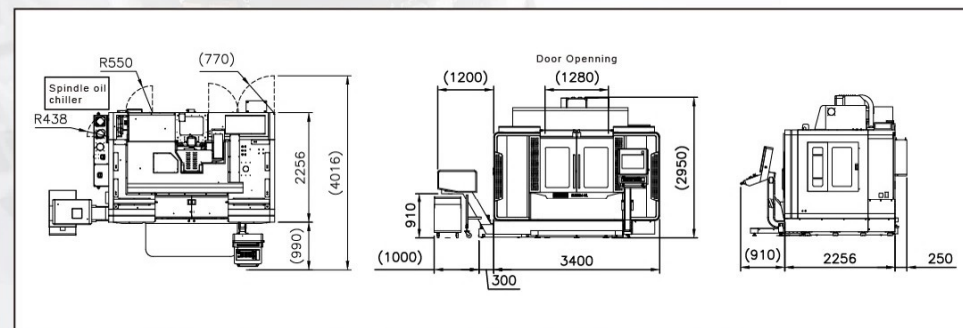
Collision Zone



Processing Range



Machine Dimensions



UH-500 / UH-500D



- High torque built-in spindle 15000rpm, horsepower 21/25kw.
- Max. swivelling range $\pm 120^\circ$ (B axis) of the swivel head.
- Heidenhain RCN Encoder is standard equipment for Spindle head B axis, it can improve the positioning accuracy of the B axis.
- The C axis rotary table is equipped with the design of high-precision worm and gear set. Optional DD motor can be used at high speed to avoid hysteresis.
- Ballscrew cooling system of Z axis can solve problems on the thermal expansion.

- Intelligent 4.0 Ballscrew (i4.0BS) combined with multi-function sensor.

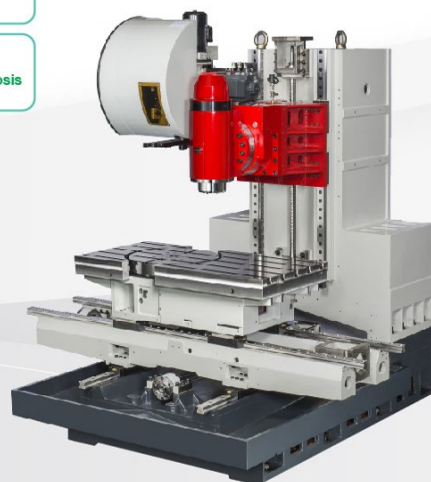
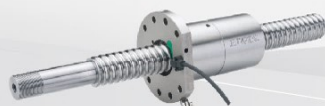
振動提醒
Vibration Diagnosis

智慧診斷
Intelligent Diagnosis

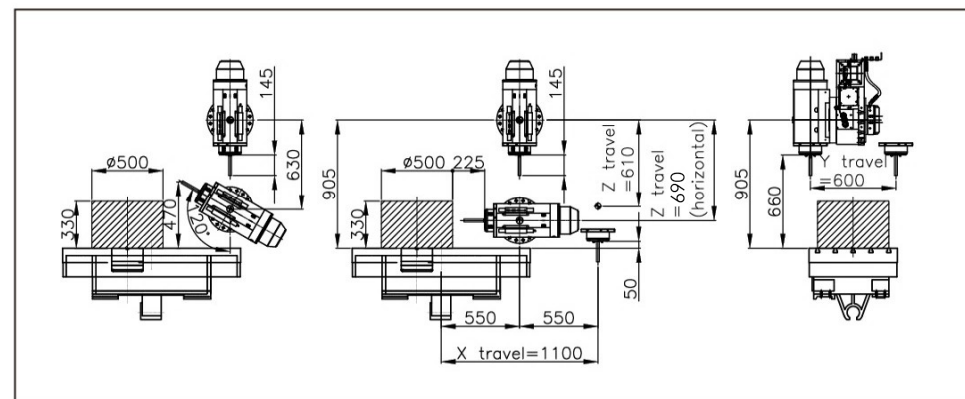
智慧潤滑
Smart Lubrication

壽命預診
Life Prediction

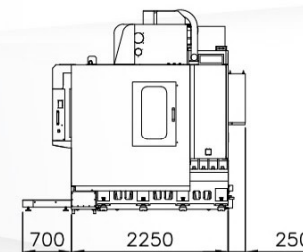
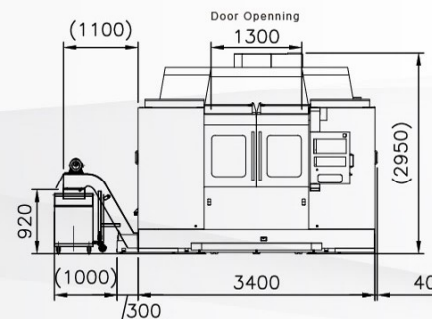
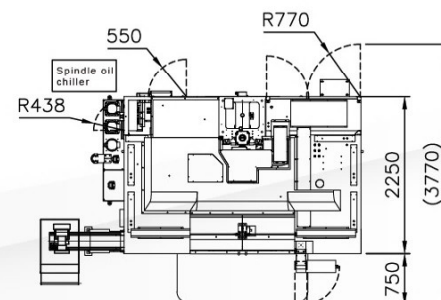
溫度提醒
Temperature Diagnosis



Processing Range



Machine Dimensions



Specifications

MODEL	UNIT	X5 - 350	X5 - 450
Working Range			
X Axis Travel	mm	410	800
Y Axis Travel	mm	600	600
Z Axis Travel	mm	510	580
A Axis Travel	deg.	120° ~ -40°	30° ~ -120°
C Axis Travel	deg.	360°	360°
Table Surface To Spindle Nose	mm	100 - 610	20 - 600
Table Size	mm	Ø 350	Ø 450
Table Load Capacity	kg	100	250
Max. Swing	mm	Ø 400	Ø 650
Max. Workpiece Size	mm	Ø 400 x 300	Ø 600 x 300
3 Axes Guideways	type	Roller (35/45/45)	Roller (45/45/45)
Spindle			
Spindle Speed	rpm	10,000	10,000
Spindle Taper	type	BT40	BT40
Spindle Transmission	type	Direct Type	Direct Type
Spindle Motor	kw	7.5 / 11	7.5 / 11
Feed Rate			
Rapid Traverse (X / Y / Z axes)	m/min.	30 / 30 / 24	30 / 30 / 24
Rapid Traverse (A / C axes)	rpm	A=25 / C=25	A=22.2 / C=22.2
X / Y / Z / A / C Axes Motor (Fanuc)	kw	4 / 4 / 7 / 1.6 / 3	4 / 4 / 7 / 1.6 / 4
X / Y / Z / A / C Axes Motor (Siemens)	kw	3 / 3 / 5.5 / 2.85 / 3	3 / 3 / 5.5 / 2.85 / 3
A.T.C			
Magazine Type	type	Arm Type & Fixed	Arm Type & Fixed
Tool Magazine Capacity	pc	24	24
Max. Tool Diameter/ Without Adjacent Tool	mm	Ø75 / Ø150	Ø75 / Ø150
Max. Tool Length	mm	250	250
Max. Tool Weight	kg	7	7
Tool Selection	type	Random	Random
Other			
Air Supply Required	kgs/cm²	6	6
Power Consumption	KVA	30	30
Voltage	V	220V / 400V, 3PH	220V / 400V, 3PH
Floor Space	mm	4335 x 3690 x 3100	4700 x 2600 x 3200
Machine Weight	kgs	6700	8100

Specifications

MODEL	UNIT	UX - 450
Working Range		
X Axis Travel	mm	950
Y Axis Travel	mm	600
Z Axis Travel	mm	560
A Axis Travel	deg.	30° ~ -120°
C Axis Travel	deg.	360°
Table Surface To Spindle Nose	mm	30 - 590
Table Size	mm	Ø 450
T-Slot	mm	12
Table Load Capacity	kg	250
Max. Workpiece Size	mm	Ø 600 x 300
3 Axes Guideways	type	Roller (45/45/45)
Swivel Head (B axis)		
Spindle Speed (Build-in Spindle)	rpm	15000
Spindle Power (Siemens)	kw	21 / 25
Swivelling Range (B axis)	deg.	±120°
Spindle Taper	type	BBT40 / HSK A63(opt.)
B axis Spindle Motor (Siemens)	kw	3.0
Indexing Accuracy (B axis)	sec.	20"
Repeatability (B axis)	sec.	6"
Spindle Transmission	type	Built-in Type
Feed Rate		
Cutting Feed Rate	m/min.	10000
Rapid Traverse (X / Y / Z axes)	m/min.	30 / 30 / 24
X / Y / Z Axes Servo Motor (Siemens)	kw	5.5 / 5.5 / 6.4
A / C Axes Servo Motor	kw	2.85 / 3.0
A.T.C		
Magazine Type	type	Arm Type & Removable
Tool Magazine Capacity	pc	24 / 30 (opt.)
Max. Tool Diameter/ Without Adjacent Tool	mm	Ø75 / Ø150
Max. Tool Length	mm	250
Max. Tool Weight	kg	7
Tool Selection	type	Random
Other		
Air Supply Required	kgs/cm²	6
Power Consumption	KVA	40
Voltage	V	220V / 400V, 3PH
Floor Space	mm	4600 x 3420 x 2950
Machine Weight	Kgs	9100

Specifications

MODEL	UNIT	UH - 500	UH - 500D
Working Range			
X Axis Travel	mm	1100	1100
Y Axis Travel	mm	600	600
Z Axis Travel (Vertical)	mm	610	610
Z Axis Travel (Horizontal)	mm	690	690
Table Surface To Spindle Nose (Vertical)	mm	30~640	30~640
Table Surface To Spindle Nose (Horizontal)	mm	195~885	195~885
Table Size	mm	1250 x 620	1250 x 620
T-slot	mm	5 x 18 x 125	5 x 18 x 125
Swivel head (B axis)			
Spindle Speed (Build-in Spindle)	rpm	15000	15000
Spindle Power (Fanuc)	kw	15 / 18.5	15 / 18.5
Spindle Power (Siemens)	kw	21 / 25	21 / 25
Swivelling Range (B axis)	deg.	±120°	±120°
Spindle Taper	type	BBT40 / HSK A63 (opt.)	BBT40 / HSK A63 (opt.)
Indexing Accuracy (B axis)	sec.	20"	20"
Repeatability (B axis)	sec.	6"	6"
Rotary Table			
Rotary Table Diameter	mm	Ø500	Ø500
Indexing Resolution	deg.	0.001°	0.001°
Drive Method	type	Worm Wheel	DD Motor
Max. Speed	rpm	25	120 / 800
Max. Table Load	kgs	500	500
Feed Rate			
Cutting Feed Rate	m/min.	1-10	1-10
Rapid Traverse (X / Y / Z axes)	m/min.	30 / 30 / 24	30 / 30 / 24
X / Y / Z Axes Servo Motor (Fanuc)	kw	4 / 4 / 7	4 / 4 / 7
X / Y / Z Axes Servo Motor (Siemens)	kw	5.5 / 5.5 / 6.4	5.5 / 5.5 / 6.4
A.T.C			
Magazine Type	type	Arm Type & Removable	Arm Type & Removable
Tool Magazine Capacity	pc	24 / 30 (opt.)	24 / 30 (opt.)
Max. Tool Diameter/ Without Adjacent Tool	mm	Ø75/Ø150	Ø75/Ø150
Max. Tool Length	mm	250	250
Max. Tool Weight	kgs	7	7
Tool Selection	type	Random	Random
Other			
Air Supply Required	kgs/cm ²	6	6
Power Consumption	KVA	40	40
Voltage	V	220V / 400V, 3PH	220V / 400V, 3PH
Floor Space	mm	4500 x 3200 x2950	4500 x 3200 x2950
Machine Weight	kgs	9200	9200

STANDARD ACCESSORIES

- Direct drive spindle speed 10000rpm (BT40)for X5-350/ X5-450
- Built-in spindle speed 15000rpm (BBT40) for UH-500/ UX-450
- Arm type ATC 24-tools
- Full enclosed splash guard
- Roller type linear guideways
- B axis optical encoder for UH-500/UX-450
- Z axis coolant through ballscrews
- Chain type chip conveyor
- Rigid tapping
- Cutting air blast system
- Spindle splash ring
- Spindle oil chiller
- Cooling system
- Auto lubrication system
- Air conditioner for electrical cabinet
- Telescopic covers for 3 axes
- LED warning light
- LED work lamp
- Coolant gun & Air gun

OPTIONAL ACCESSORIES

- Coolant through spindle (With sealed splash guard) 30bar / 70bar
- Arm type ATC 30 tools
- X/Y axes coolant through ballscrews
- C axis optical encoder
- Linear scale (Heidenhain)
- Tool measurement system
- Workpiece measurement system
- Transformer
- Stabilizer
- Disc type oil skimmer
- Intelligent Ballscrew
- CE Mark

