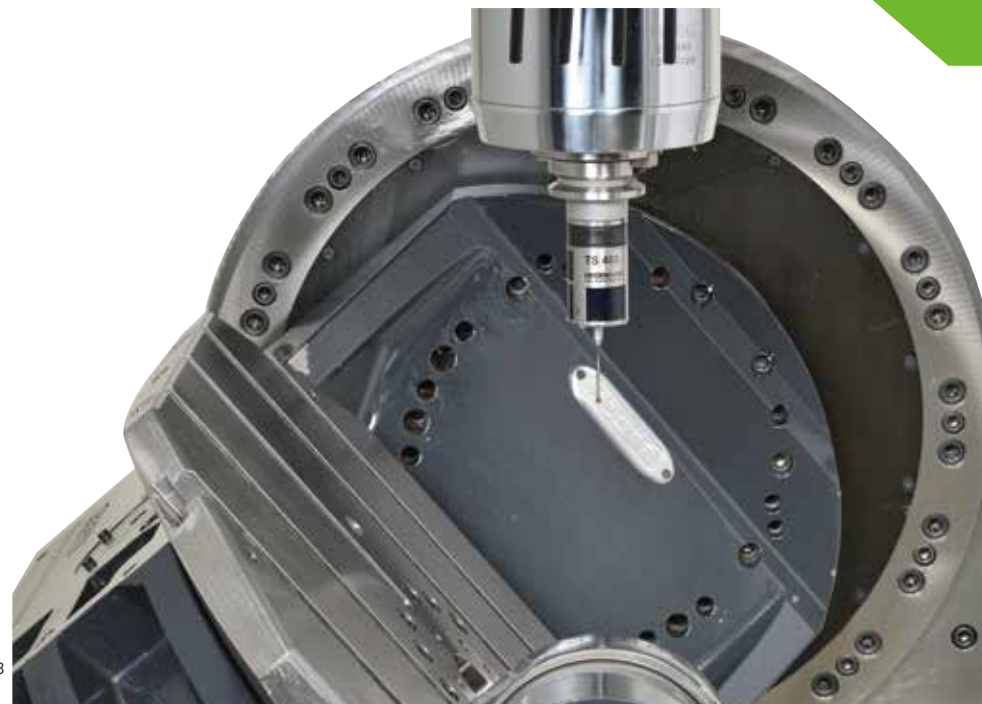




Simultaneous

SOGOTEC Precision Co., Ltd.

No.178, Guangqi Rd., Shengang Dist.,
Taichung City 42948 Taiwan
Tel: +886-4-2561-2611
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5 Axes Moving Column
Ram Type Machining Center



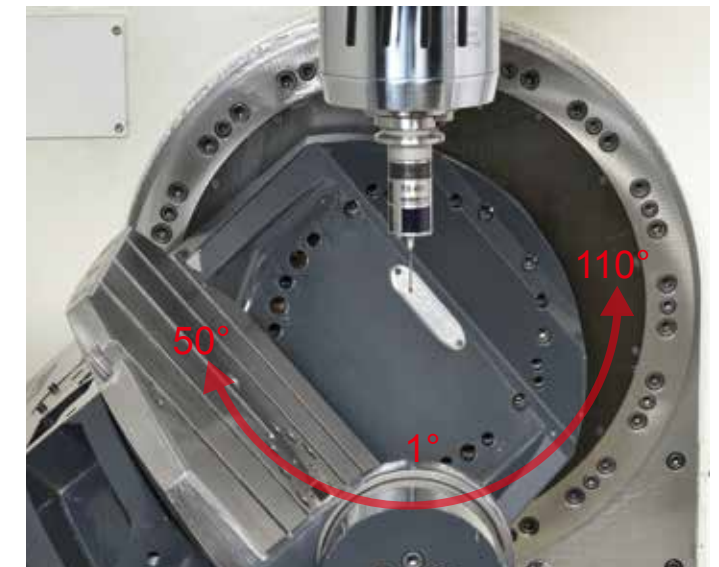
5 AXES Simultaneous Machining Center

Europe Design High Speed Machining

The Focaseiki FUV Series 5 Axes Machine is an advanced, multi-tasking European design and technology for producing complicated parts at high speed, With 5-axis configuration , complex machining can be accomplished in one step.



The machine dramatically reduces machining time, while helping you to stay competitive.



Assuring high accuracy in simultaneous machining of 5 axes and positioning at any angle .

Rotating/Tilting Axis (B/C-axis)

The high rigidity NC controlled rotating/tilting rotary table is equipped with linear encoders, ensuring excellent accuracy when performing complicated machining.



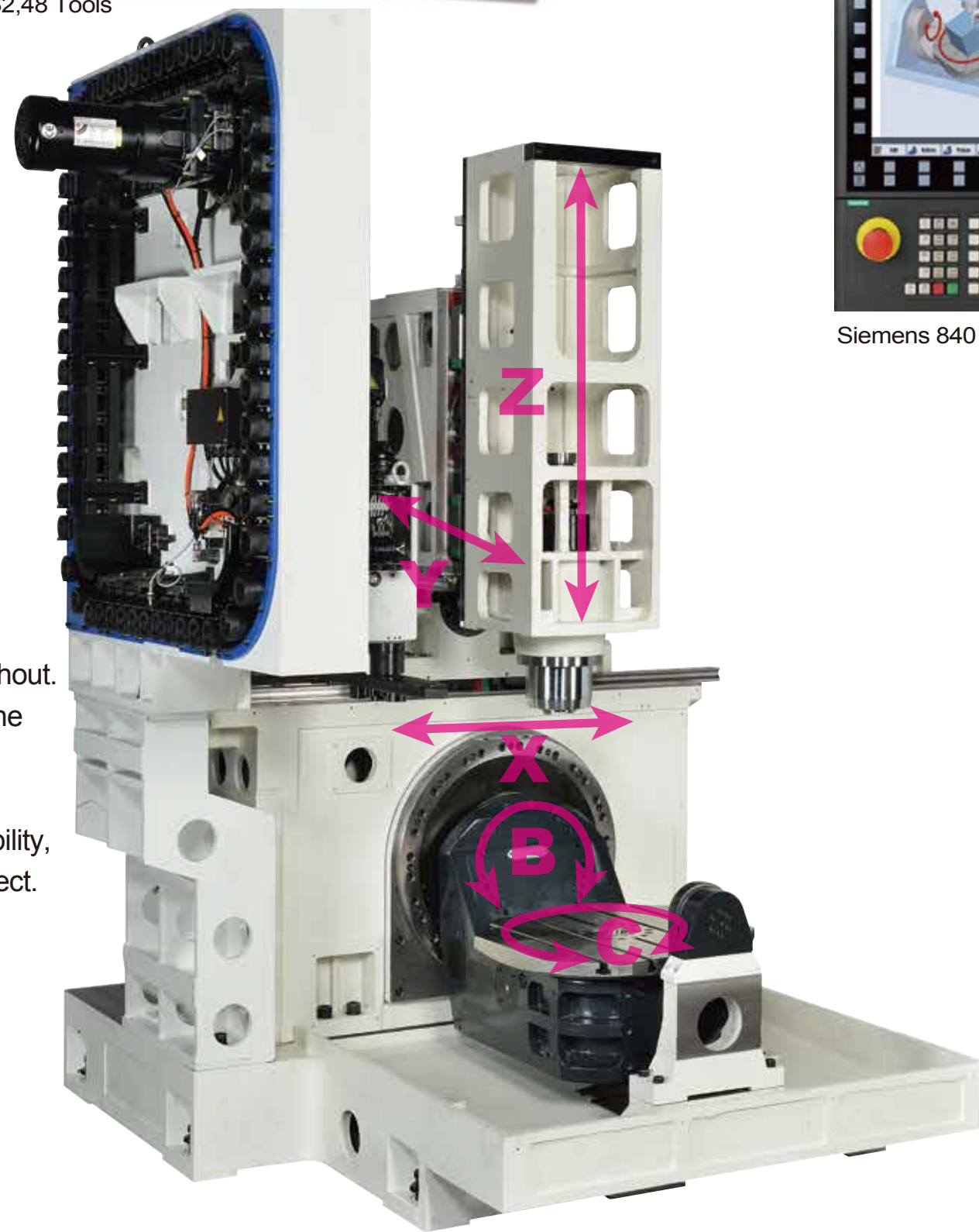
Europe style ergonomic state of the art design operating box, 360° rotation and any angle can be fixed. Convenient, modern.



54,60 Tools



32,48 Tools



The FUV-650 is rigidly constructed throughout. The rigid base provides solid support for the rotating / tilting rotary table (B/C-Axis). This combined with a cross slide design and ensures machine structure's high stability, and reliable accuracy you've come to expect.

- 5 axes simultaneous control
- The advanced control will dramatically increase machining accuracy, efficiency and safety during machining



Siemens 840 D SL

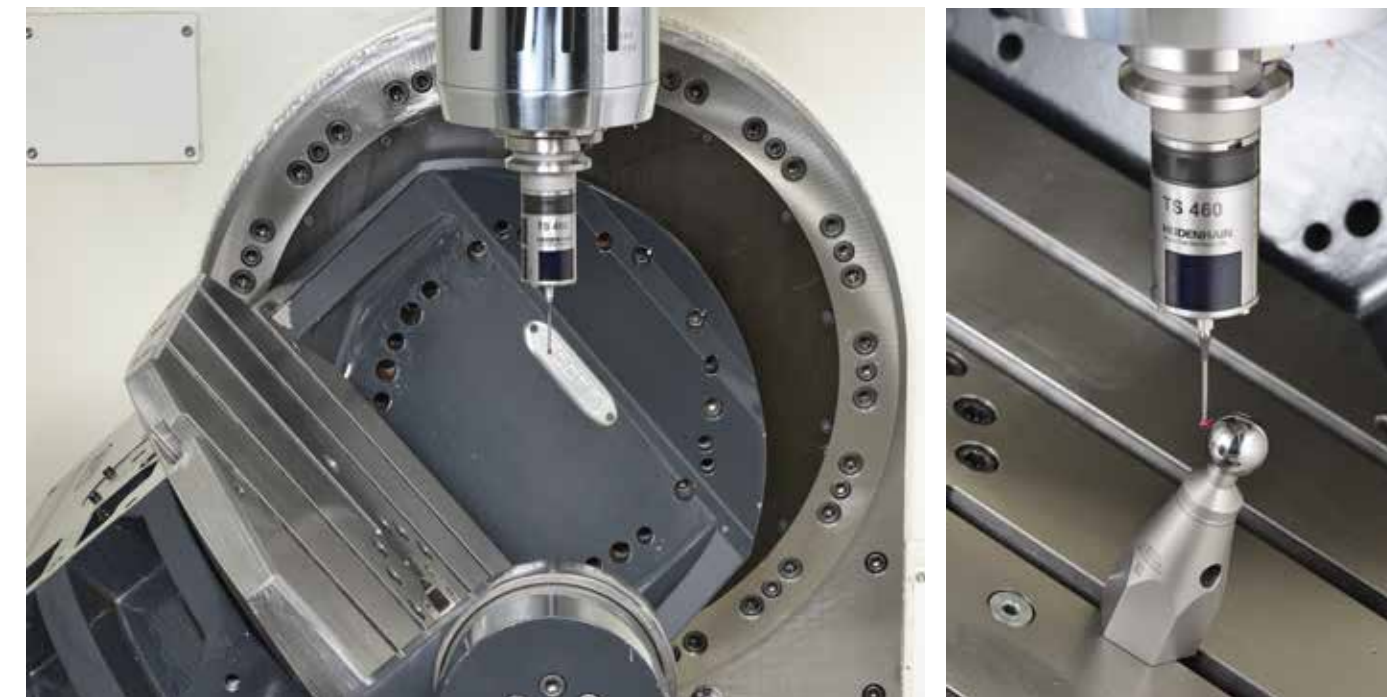


Heidenhain iTNC-640



FAGOR 8065 POWER

- 12000 rpm direct-drive spindle
- 32(48/54/60) tool magazine
- Handles complicated machining with ease
- Best bell theorem structural design
- Linear scales / encoders on 5 axes
- Thermal isolation design compensation kit.

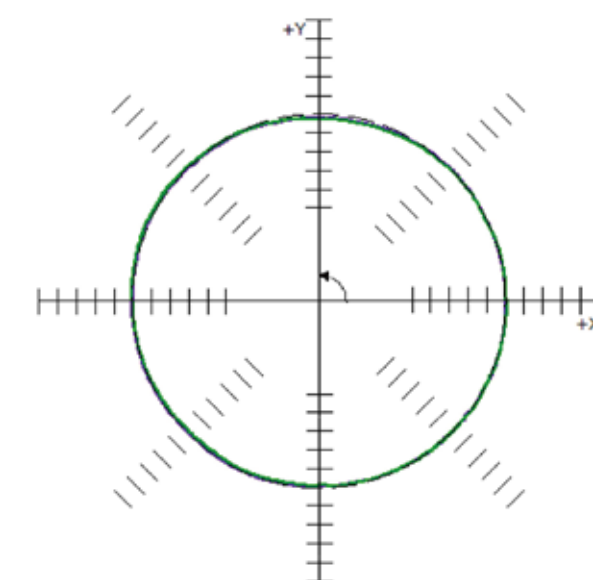


(Optional)

Kinematics Calibrating Device

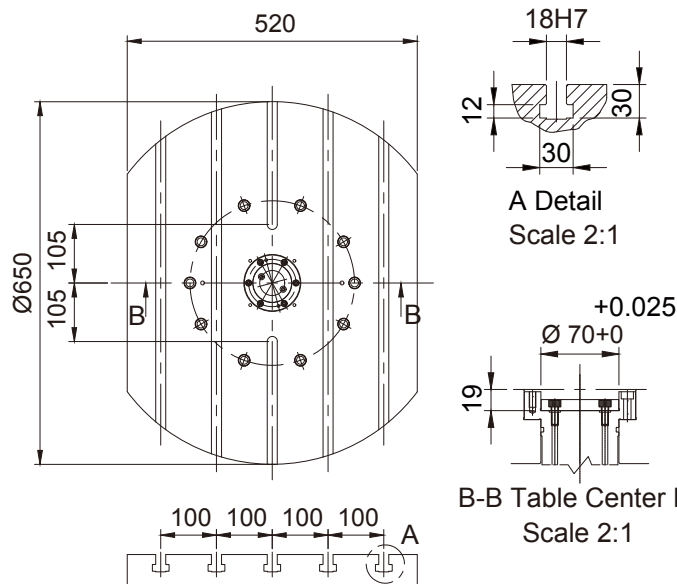
The device employs a Heidenhain TS-460 high precision probe. Standard measuring ball and measuring software for accurately inspecting the table center. The measured values is then input into the control system to ensure the accuracy of the table center.

Dynamic ASME B5.54			
Non roundness	4.2µm		
Maximum deviation	2.1µm	155.47651°	
Minimum deviation	-2.1µm	90.72483°	
Test parameters			
Radius	150.0000mm		
Sample rate	52.632Hz		
Feedrate	2000.0mm/min		
Run sequence	CW CCW		
Plane under test	XY		
Test position			
Start angle	0°		
End angle	360°		
Overshoot angle	180°		
Centre offset X	0.6µm		
Centre offset Y	-2.3µm		
Calculated feedrate	1996.8mm/min		

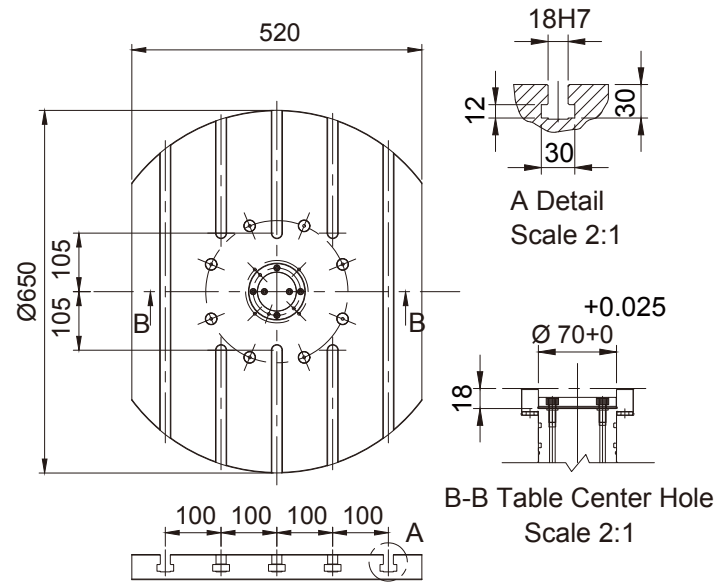


10.0µm/div

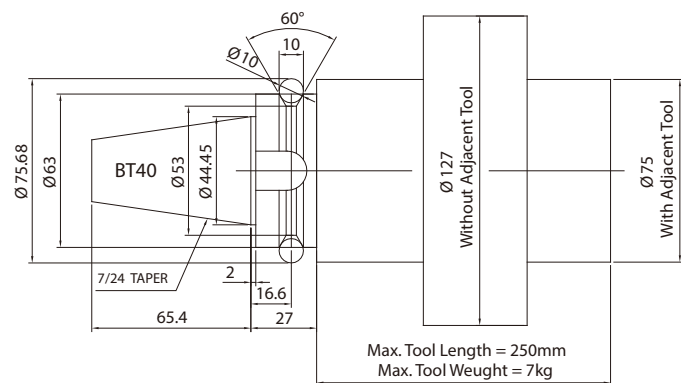
Detron Tilting Rotary Table



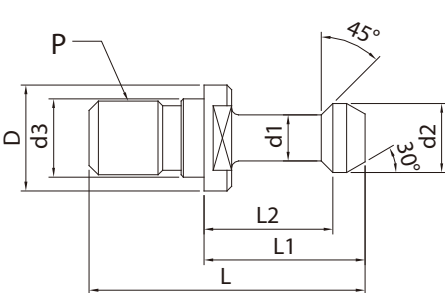
Detron Tilting Rotary Table



Tool Shank

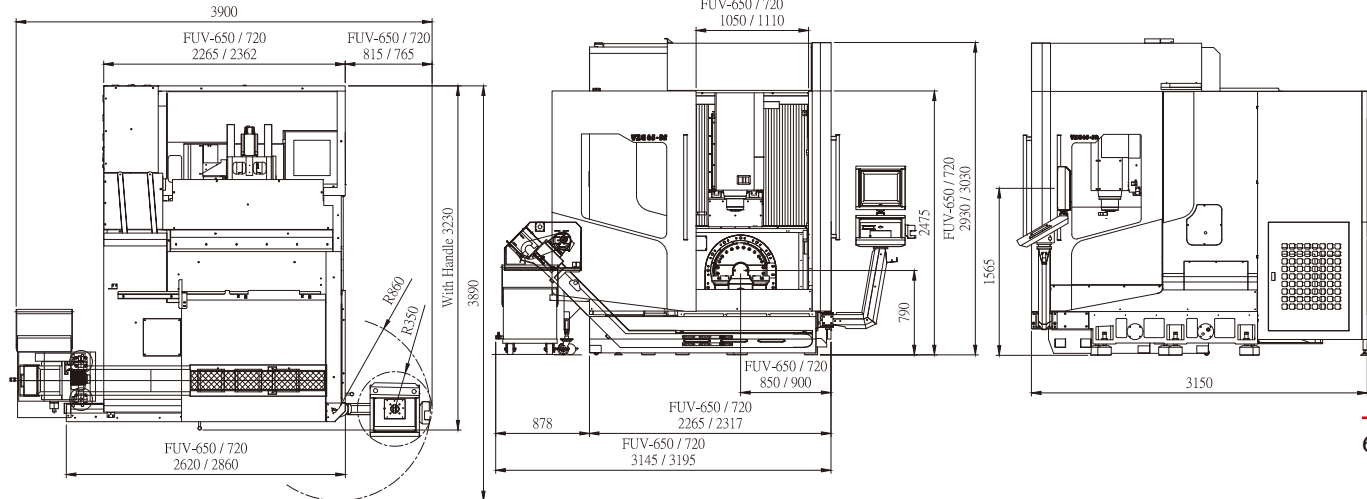


Pull Stud



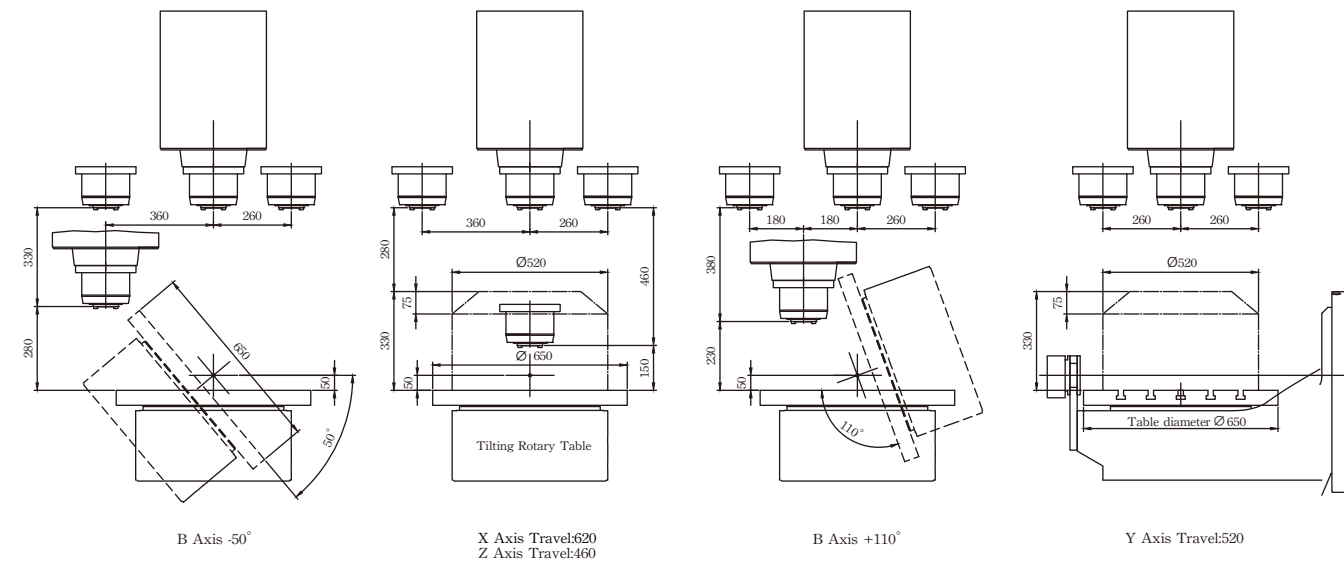
MODEL	D	d1	d2	d3	L	L1	L2	P
BT40	23	10	15	17	60	35	28	M16*2.0

Dimensions

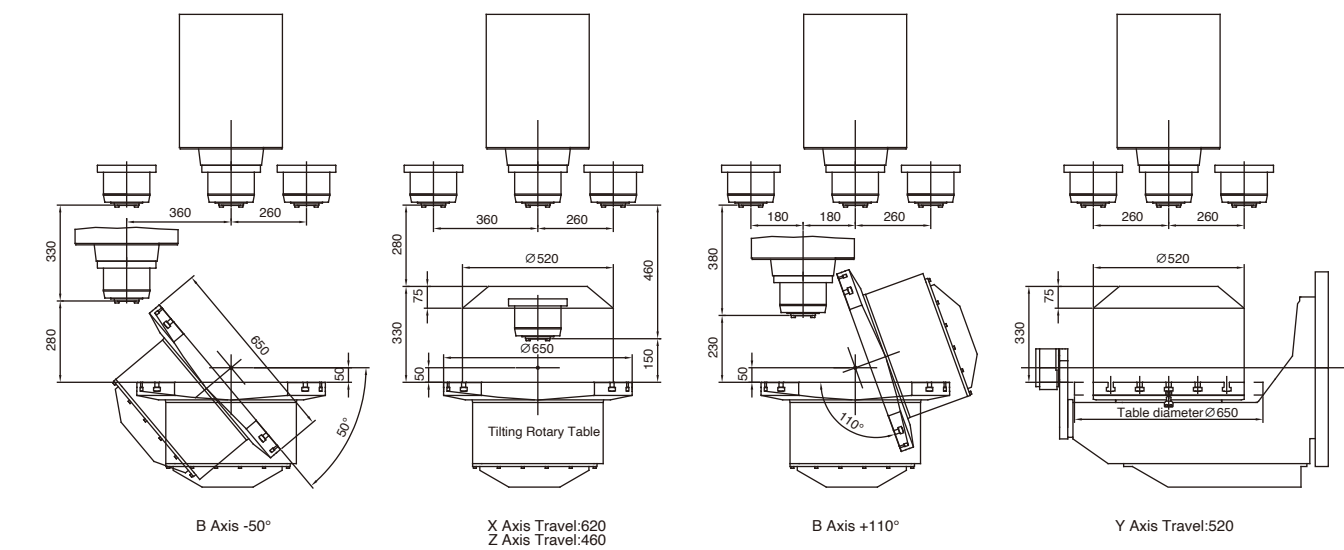


Working Area (For FUV-650)

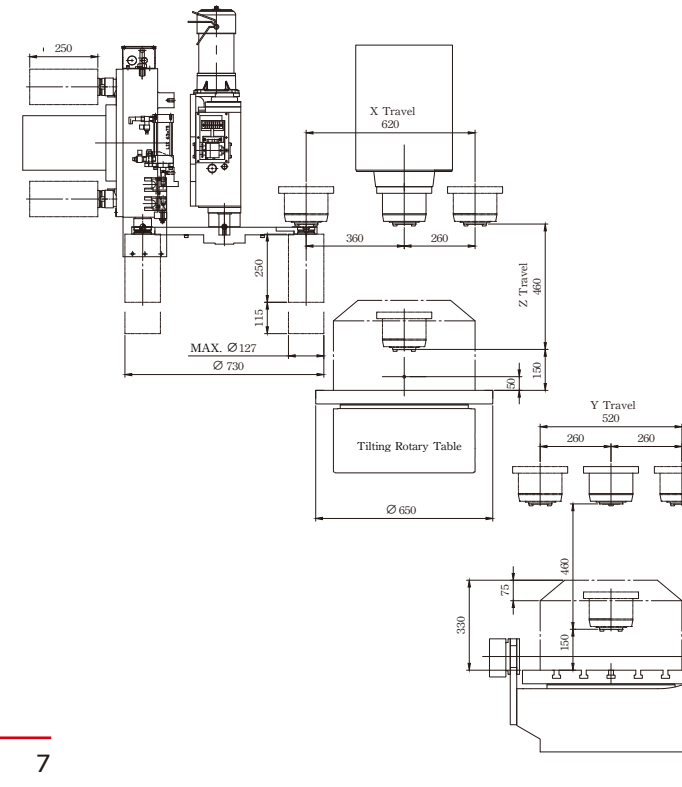
Tilting Rotary Table (Worm Gear)



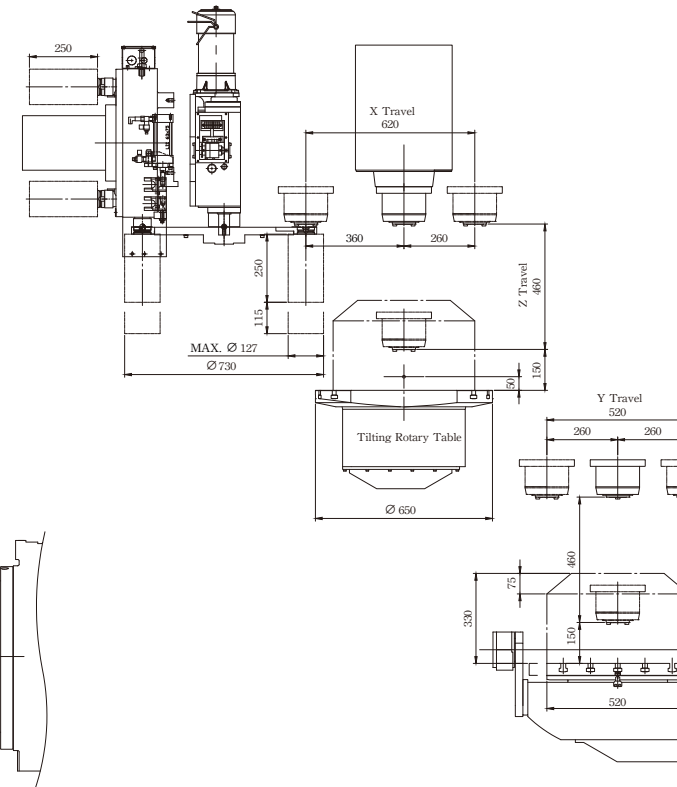
Tilting Rotary Table(DDM)



Tilting Rotary Table (Worm Gear)(For FUV-650)



Tilting Rotary Table (DDM) (For FUV-650)



Machine Specification

	650	720
Spindle		
Spindle transmission	Direct (Built-in)	Direct (Built-in)
Spindle taper	ISO 40 (HSK63A)	ISO 40 (HSK63A)
Spindle r.p.m	12000 (15000/18000/20000/24000)	
Travel		
X/Y/Z (mm)	620/520/460	720/600/520
B Axis tilting range	-50°~+110°	-50°~+110°
C Axis rotating range	360°	360°
Spindle nose to table surface (mm)	150-610	140-660
ATC		
Tool magazine capacity(T)	32 (48/54/60/120/204)	
Tool Shank	ISO 40 (HSK63A)	ISO 40 (HSK63A)
Max . tool length (mm)	250	250
Max. tool diameter (mm)	Ø 75/ 127	Ø 75 / 127
Rapid Speed		
X/Y/Z axis (mm/min)	48	48
B/C axis (rpm)	100/50 (25/25)	100/50
Cutting federate M/min	20	20
B/C AXIS		
Table size (0.D/1.D)mm	Ø650	Ø720
Center hole size (mm)	Ø70H7x19 (Ø50H7x30)	Ø70H7x29
T-Slot number/pitch (mm)	5x100x18	5x100x18
Max. table load (kgs)	300	300
Others		
Machine Dimension (mm)	3145mm x 3890mm x 2930mm	3195mm x 3890mm x 3030mm
Machine Weight	10000 kgs	10800 kgs
Coolant tank capacity (L)	210	210
Pneumatic supply(kg/cm2)	6	6

- We reserve the right to modify the design and specification without notice in advance. Above specifications are for reference only. Correct specifications are based on actual machine.
- Description in () are optional accessories.

Standard Accessories:

- Spindle speed 12000rpm
- Spindle Chiller
- Chip conveyor
- A.T.C 32T
- Heat exchanger
- 3 Axes linear scales
- B/C axis encoder
- Heidenhain iTNC 640
- M30
- Coolant Gun
- Air Gun
- Chip conveyor
- Z Axis Thermal Compensation

Optional Accessories:

- C.T.S
- Laser tool length measurement (Blum/ Renishaw)
- Work piece measurement
- CE
- Transformer
- Air conditioner
- Spin window
- Kinematics calibrating device (KKH-100/ TS460/ TS640)
- Oil mist collector
- Controller:Siemens 840D SL / Fagor 8065 Power
- Movable Roof