

- 5-Axis Trunnion Type
- 5-Axis Gantry Type
- 5-Axis Universal Head Type
- 5-Axis Bridge Type

5-Axis Solutions Machining Range

Imported Div.

COSMOS Machine Tool Solutions



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Your Partner in Progress ...



Trunion Type 5 Axis VMC
LU Series
 Litz, Taiwan

Table Size

- 400 & 620 MM
- 12000 rpm Direct Drive Spindle
- BBT40 Tool Taper
- High Performance Cutting
- Trunion table design



MODEL	UNIT	LU-400	LU-620
TRAVEL			
Working table (W x L)	mm	520 x 320	650 x 400
X axis travel	mm	400	650
Y axis travel	mm	350	520
Z axis travel	mm	350	460
Table tilting (B Axis)	deg	-50°~+110°	-50°~+110°
Table rotary (C Axis)	deg	360°	360°
Max torque	Nm	100	180
Table loading capacity	KG	150/200 (90deg/hor.)	200/300 (90deg/hor.)
Max spindle speed	RPM	12000	
Spindle motor	KW	5.5/7.5	18/21 (Siemens)
Type of tool shank		BT 40	
Rapid feed rate	m/min	48/48/48	36/36/36
Cutting feed rate	m/min	20	
Tool storage capacity	EA	30	32

Center calibration



Rigid, High-Powered Without Compromising Precision



Multi Pallet 5-Axis Machine

Number of Pallets: **6**
 APC Worktable size: **350 x 350mm**
 APC Worktable loading: **100kg**

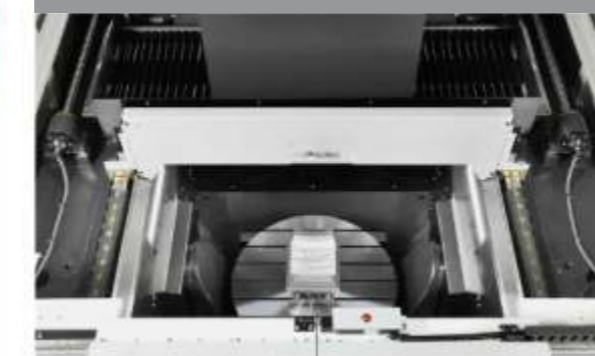
Standard Features

- Direct Drive Spindle Speed 12000Rpm
- Spindle Oil Cooler
- Spindle Motor Plate Cooling System
- Spindle Air Seal System
- Spindle Programmable Air Blow
- Spindle Splash Ring
- Chain Type Chip Conveyor
- Chip Cart
- Water Gun
- Air Gun
- Full Enclosure
- Worktable Tailstock Support
- Front Door/Side Door Safety Switch
- Disc Type Coolant Oil Separator
- XYZ Axes Lube Lubricating
- Automatic Tool Changer (ATC)
- Tool Specifications BBT-40
- Tool Capacity 32
- 3 Axes Roller Type Linear Guideways
- B Axis Linear Scale
- C Axis Linear Scale
- Z Axis Motor System W/ Brake
- Worklight
- Alarm Light
- M30 Auto Shut Off
- Heat Exchanger
- Heidenhain TNC-640 (5 Axes Simultaneous)



Rigid, High-Powered Without Compromising Precision

Sliding Top Roof



Easy Chip Removal



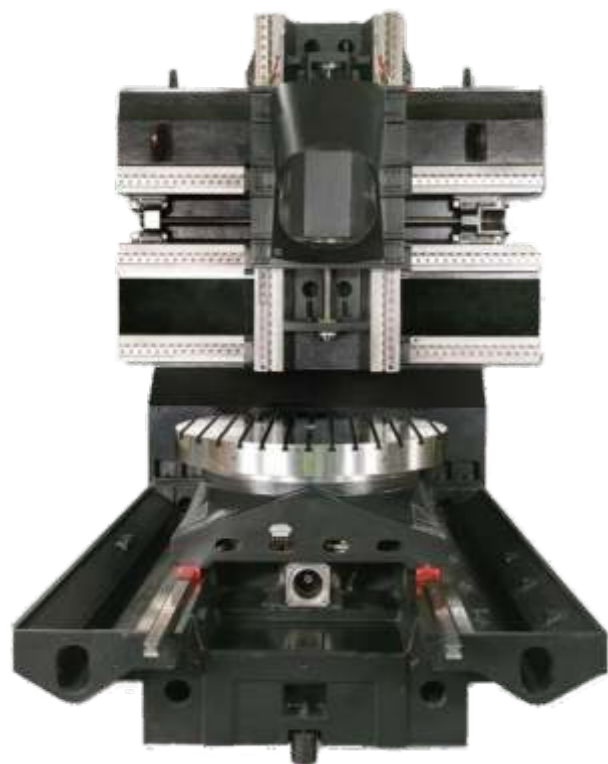
GANTRY Type 5 Axis
LU Series
 Litz, Taiwan

- Table Size**
- 800 & 1200 MM
 - 12000 rpm Direct Drive Spindle
 - BBT40 Tool Taper
 - High Performance Cutting
 - Trunnion table design

MODEL	UNIT	LU-800	LU-1200
TRAVEL			
Working table (W x L)	mm	850 x 400	1150 x 900
X axis travel	mm	800	1100
Y axis travel	mm	900+330	1370+380
Z axis travel	mm	620	800
Table tilting (B Axis)	deg	-120°~+120°	-120°~+120°
Table rotary (C Axis)	deg	360°	360°
Max torque	Nm	236	400
Table loading capacity	KG	1000	2000
Max spindle speed	RPM	12000	8000
Spindle motor	KW	20/ 37	27 / 64
Type of tool shank			BT 40
Rapid feed rate	m/min		48/48/48
Cutting feed rate	m/min		20
Tool storage capacity	EA	32	24(40)

Standard Features

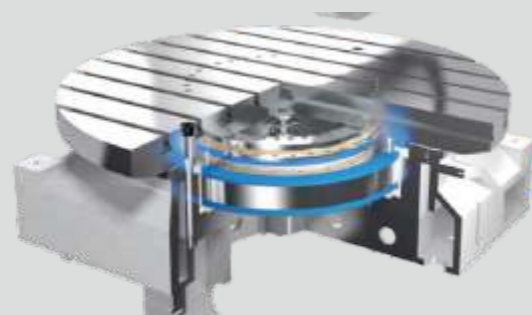
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- Spindle Oil Cooler
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- 3 Axes Roller Type Linear Guideways
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Automatic swiveling milling head

Optional

1320mm diameter torque motor drive rotary table with maximum rotation 30RPM, 3940Nm peak torque, 10000Nm brake torque, 4000kg load, +5" / +2.5" positioning / repeatability accuracy, German made



Universal Head type 5-Axis

UMC Series

Eumach, Taiwan

Table Size

- 1000 & 1600 MM
- Universal Head type construction
- Torque Motor Drive Head
- 14000 & 24000 RPM Spindle available
- Trunnion table design

MODEL	UNIT	UMC-1000	UMTC-1000	UMC-1600	UMTC-1600
TRAVEL					
X axis travel	mm	1000	1000	1620	1620
Y axis travel	mm	800	800	1260	1260
Z axis travel	mm	700	610	1050	1050
Universal head (B Axis)	Deg	0~180			
Rotary table (C Axis)	Deg	360			
Rapid feed rate (X/Y/Z)	m/min	24/24/24			
Table size	mm	800 x 1000	Dia. 800	Dia. 1320	Dia. 1320
Table loading capacity	KG	1500	1000	4000	3200
Max spindle speed	RPM	14000 (Opt 18000)	12000	8000	8000
Spindle motor	KW	29.3 / 35		37.4 / 54	
Type of tool shank	-	BT 40 (Opt HSK A63)	KM 63	HSK A100 / BT 50	
Tool storage capacity	EA	40	40	40	40

Standard Features

- Glazed Window Type Splash Guard
- Programmable Coolant System
- Automatic Lubrication System
- Spindle Air Blast System
- Working Lamp
- Alarm Lamp For Abnormal Situation
- M.P.G.
- Indication Lamp For Dwell & End Of Job
- Levelling Bolts & Pads
- Bt#50 Long Nose Spindle
- Rs-232 Terminal Interface Port
- Machine & Control Manuals
- Toolbox With Spanners & Wrenches
- Screw Type & Chain Type Chip Conveyors
- Fanuc Oi-Md Control



Bridge / Double Column Type 5 Axis
DVM Series
 Eumach, Taiwan

Table Size

- 2200 & 1700 to 6000 x 3500
- Bridge type construction
- Cytec make fork type 5-axis head
- Heavy duty cutting design

MODEL	UNIT	DVM-20xx 5Ax	DVM-30xx 5Ax	DVM-40xx 5Ax	DVM-50xx 5Ax	DVM-60xx 5Ax
TRAVEL						
X axis travel	mm	2200	3200	4200	5200	6200
Y axis travel	mm	I:1750; II:2200	I:1750; II:2200 III:2600	I:2200; II:2600 III:3100; IV:3600	I:2200; II:2600 III:3100; IV:3600	I:3100; II:3600
Z axis travel	mm	700 (Opt 900; 1100; 1300)				
Distance between column	mm	I:1750; II:2130	I:1750; II:2130 III:2530	I:2130; II:2530 III:3030; IV:3530	I:2130; II:2530 III:3030; IV:3530	I:3030; II:3530
Head tilting (B Axis)	Deg	±105				
Head rotary (C Axis)	Deg	±360				
Table size	mm	2000 x I:1600 (II:1700)	3000 x I:1600 (II:1700; III:2100)	4000 x I:1700 (II:2100; III:2600; IV:3100)	5000 x I:1700 (II:2100; III:2600; IV:3100)	6000 x I:3030 (II:3530)
Rapid feed rate (X/Y/Z)	m/min	15/15/10	15/15/10	10/10/10	10/10/10	10/10/10
Cutting feed rate	m/min	8	8	8	8	8
Table loading capacity	KG	I:6000; II:8000	I:8000; II:11000 III:14000	I:13000; II:16000 III:20000; IV:24000	I:15000; II:18000 III:21000; IV:25000	I:23000; II:28000
Tool storage capacity	EA	24				



CYTEC Head

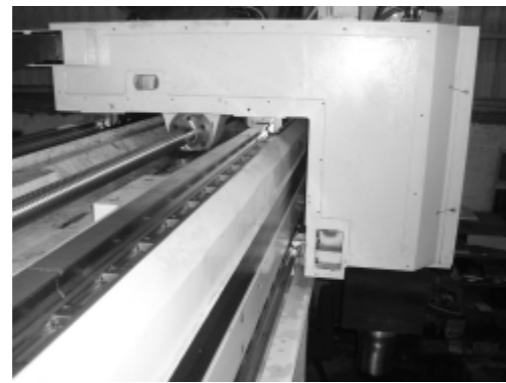
M21 Fork/ Universal 2Axis Milling head
 0.001° Indexing
 HSK A100 Taper / 1000 RPM
 34/42 kW Power / 220Nm Torque

Latest innovation design not only for Mould & Die Application but also for Aerospace, Construction, Textile Machinery industries and General machining, with High efficiency, High Accuracy and High power characteristics combined with a Large work envelope.

X-AXIS:
 Two roller guideways & two ball guideways

Y-AXIS :
 Three roller guideways.
 (Two on top & one on front)

Z-AXIS:
 420mm x 420 mm,
 heavy duty box ways



Standard Features

- Fanuc 0iMF Controller
- Ethernet for program transfer 24 Tool arm type automatic tool changer
- Belt drive spindle
- Z-axis servo brake
- LM Guideways on all axes
- Full splash guard
- Rigid tapping
- Portable MPG
- Heat Exchanger for electrical panel
- Air and air gun
- Automatic lubrication system Coolant system
- Oil coolant separator
- Chip Tray
- Operation lamp
- Work lamp
- Leveling pad
- Maintenance kit, Operation and maintenance manual

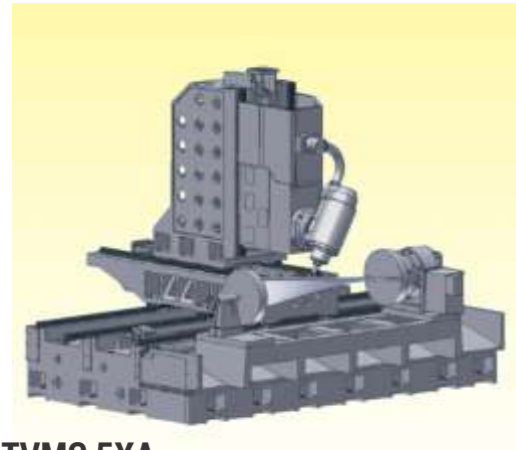
Other 5-Axis Machines



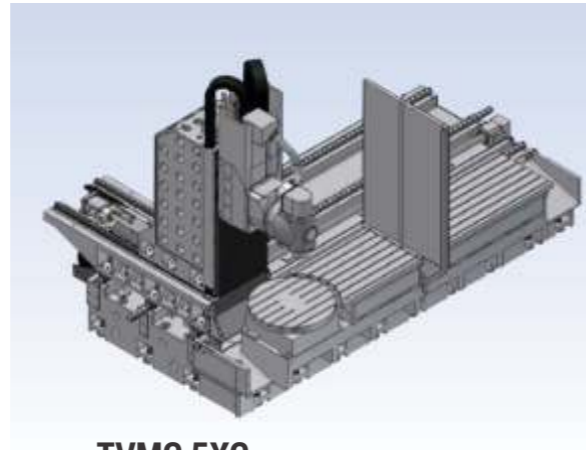
H2 50RT



FBE-2000



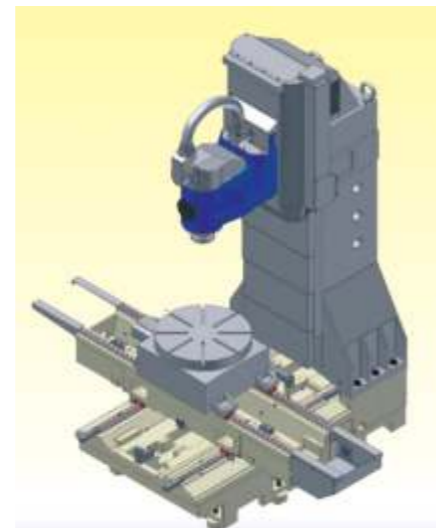
TVMC 5XA



TVMC 5XC



HSM 250U



HSM 5XC

COSMOS: Service Support

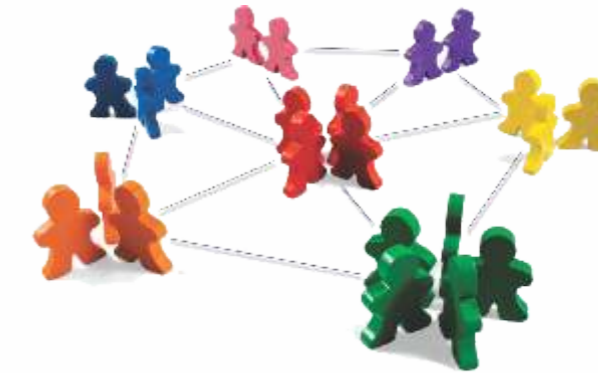
COSMOS as a leading provider of machine tools services is dedicated to enhancing our customer experience at every level of the organization. We do this through providing world class products supported by customer focused services and support in the form of COSMOS Service Line. Our goal is rewarding growth through exceeding the expectations of our customers every day.

Field Service

Qualified machine tool service keeps your business running. Our quick response times with knowledgeable, factory-trained engineers give us a distinct edge in our service capabilities. With our wide service network, our engineers are always a phone call away. May it be preventive maintenance or disaster management our service team has you covered for it all. The Cosmos service team will help maintain your machines for the many years to come.

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Get more out of your machines through proper training of your operating team at the COSMOS Training center. On machine training can be conducted giving the user an edge & added expertise on machine usage. Our application, programming, and service training modules will facilitate more efficient usage of your machine. Topics include machine servicing, hands-on operation, and Basic CNC programming.



COSMOS Service Line

COSMOS Service line is the first of its kind in the country. Its is a centralized system to maintain & record all service complaints the first calling point for all customers anywhere in India and with completely auto-tracking system for each problem until it is resolved. Once a complain is registered, on the spot troubleshooting is provided by our Sr. Engineers and if unresolved an engineer visit is scheduled.

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