



Comprehensive

Product Catalogue



Turning, Turn-Mill Centers /

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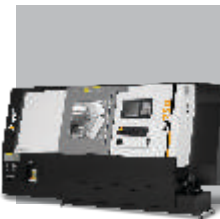
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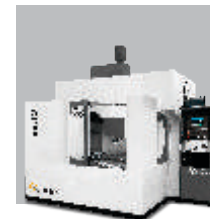
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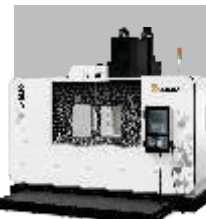
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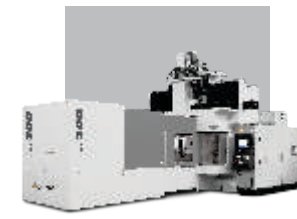
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MTX Series
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MX Series
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**Sales & Service
Network**

DELIVERING METAL CUTTING SOLUTIONS TO CUSTOMERS WORLDWIDE

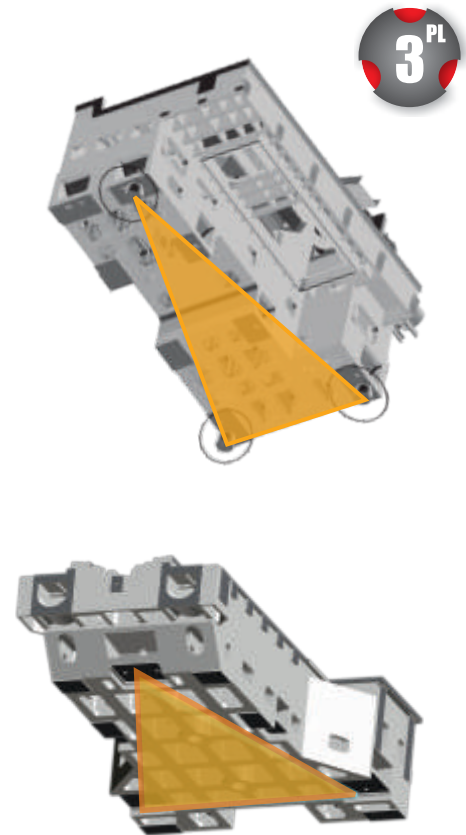
As one of the major and dedicated technology contributor to the World, Jyoti is dedicated to explore unlimited possibilities in the World of Machine Tools. Credited with many firsts in the industry, Jyoti is recognized as the manufacturer of CNC Machines for a large range of products with works both in India and France (Huron-100 % Subsidiary of Jyoti) 150 year old company based at Strasbourg, France. Catering to wide range of industries, our expanding footprint ensures our global presence with operations worldwide.

THREE POINT LEVELING

Generally machines are leveled on 4 points adjusting the leveling pad screws. This is because the uneven mass and leveling points would not allow.

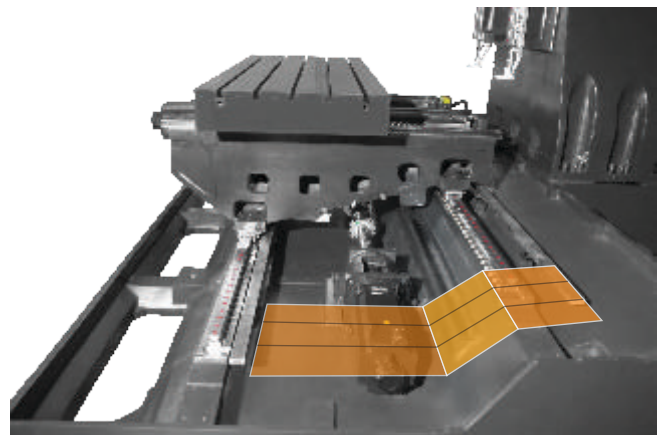
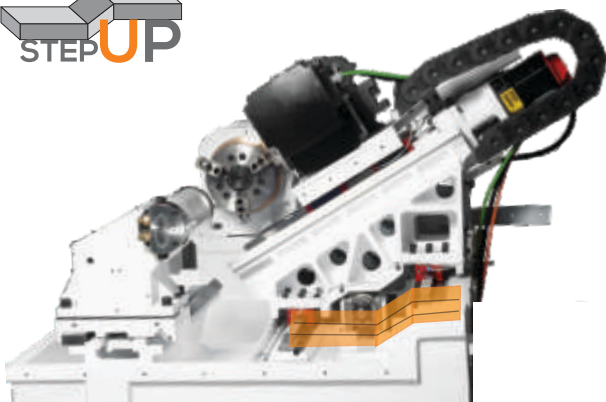
you to balance the machine on **THREE POINTS**. Special care has been taken to design JYOTI machines to balance the same on 3 points which allows these machines to rest on three points without stress. While 4 point leveling requires patience and tedious work to level the machine completely, the machines with 3 point leveling could be installed with ease and precision and can be easily relocated.

The stress created while leveling the machines with 4 points, may lead to the distortion in the level plane of the body, which gradually twists the machine body and results in erratic geometry of the machine. With a 3 point balanced machine, the body of the machine is always at rest and no stress or twisting takes place throughout the life, resulting a consistent geometrical accuracy.



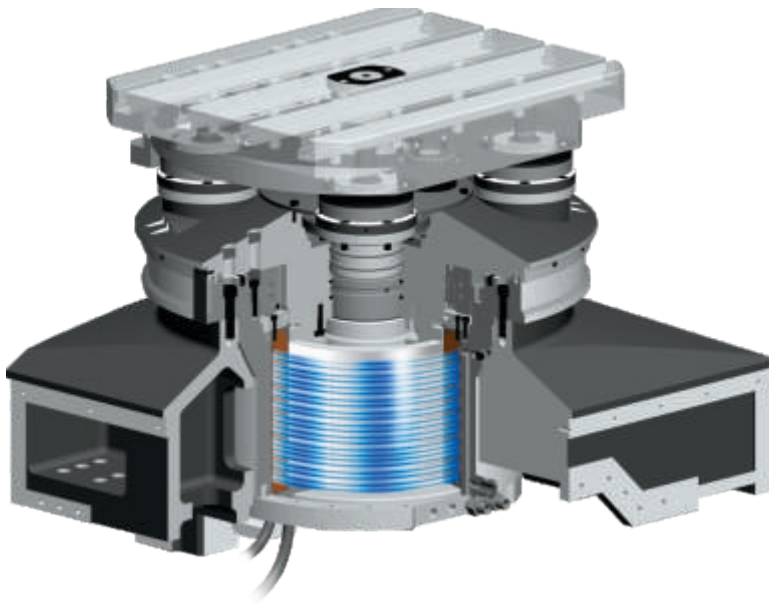
STEP-UP STRUCTURE

Step-up bed structure concept with widely spread guideways provides structural stability during demanding dynamic cutting condition and enables consistent machining performance even at higher extension of axis travels.



MAXIMUM IMPACT WITH MAXIMUM EASE!!

The **T**able with **R**otary **I**ntegral **M**otor which is a unique feature applied on JYOTI high tech machines. With TRIM concept, the complexity of mechanical elements in a rotary table are TRIMMED with the use of a High Torque Integral Servo Motor which replaces the complex mechanical elements like Worm Gears. The torque transmission is direct as the motor itself is the rotating part of the table. TRIM makes the rotating axis of machine perfect !



TRIM is Technology

TRIM is Lean

TRIM is Simple

TRIM is Time Saving

TRIM is Easy to Handle

TRIM is the Future



HIGH SPEED MACHINING

High-Speed Machining is a chip removal operation involving cutting speeds which, for certain materials, are five to ten times higher than those traditionally used for the same materials.

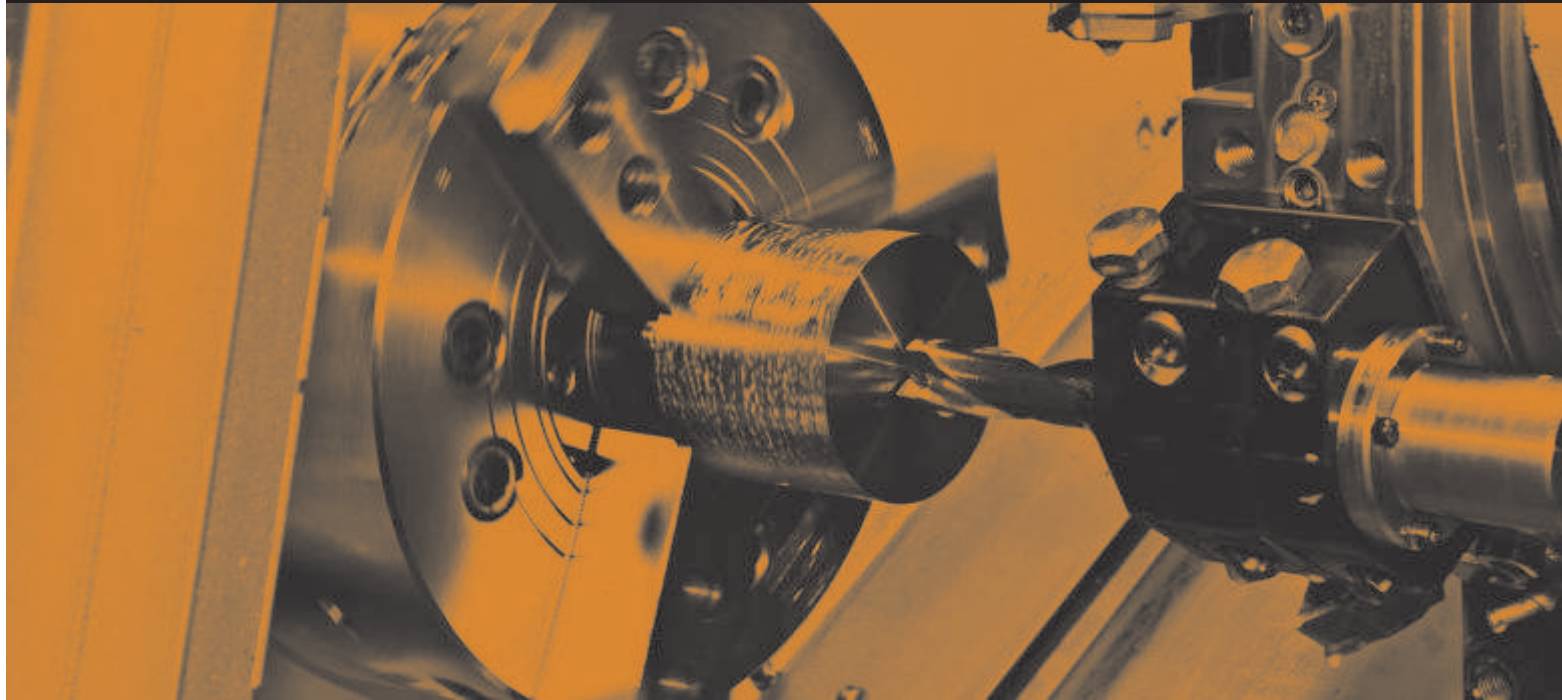
Such rapid cutting speeds generate sufficiently high temperatures in the chip shear plane for the mechanical properties of the material to be greatly diminished during machining.

Important role played by structural design, spindle, tool and NC selection, cutting strategy, cooling system & chip removal in machine tool.

ADVANTAGES OF HSM

- Cutting time reduced by a factor of 3 to 5.
- Increased productivity + Surface quality.
- Precise & Accurate contours (repeatability, positioning)
- Reduced polishing time & Leadtimes.
- Reduced part distortion.
- Machining of hard materials.
- Machining of thin "web".
- Overall cost reduction.





Simple Turning / Turn-Mill Center	Vertical Turning Center	Turning Center with Automation	Inverted Turning Center	Camless oval Turning Center	High Precision Turning/ Turn-Mill Center
DX 60 / DX 100 DX 150 DX 200 Series DX Series DX Large Series	VTL Series	DXG 100 TS 120	AT / ATM Series	i Sect	AX Series

DX Series

CNC Chucker (With Linear Tooling)



Model Variants

DX60 **DX100**

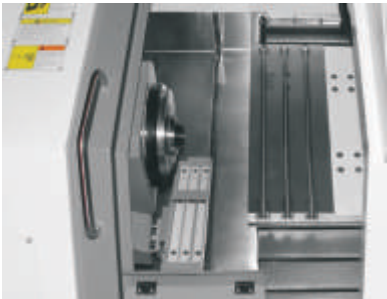
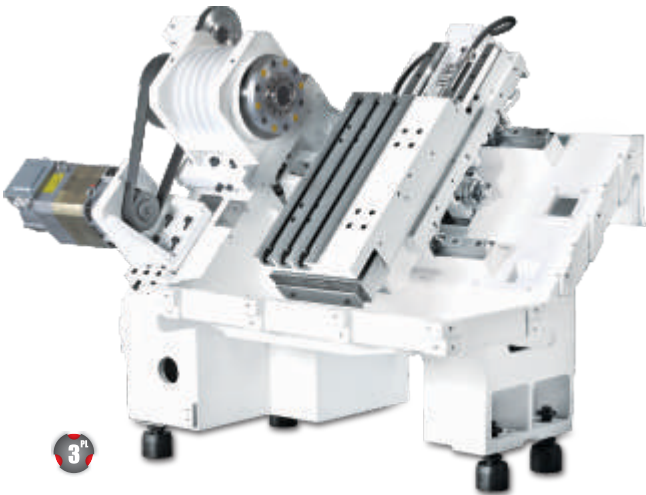
For small precision disc-type components in mass.

- Slant Bed Monoblock structure for rigidity even at higher dynamics. Better vibration dampning for better tool life.
- Gang type Linear tooling for quick approach to job for unmatched tool change time.
- Completely compatible for productivity options like Part Catcher, Automatic Tool Setting, Integration with Bar Feeder, Gantry Auto Loading, Robot Arm etc...



Specifications	DX 60	DX 100
Chuck Size	135 mm	170 mm
Std. Turning Dia.	60 mm	100 mm
Max. Turning Length	60 mm*	200 mm*
Travel (X / Z Axis)	240 / 100 mm	360 / 200 mm
Rapid Feed (X / Z Axis)	24 m/min	24 m/min
Spindle Motor Power - Mitsubishi	5.5 / 3.7 kW (A ₂ 4)	—
Spindle Motor Power - Fanuc	—	7.5 / 5.5 kW (A ₂ 5)
Spindle Motor Power - Siemens	4.2 / 2.8 kW (A ₂ 4)	10.5 / 7 kW (A ₂ 5)
Spindle Speed Range	50 - 6000 rpm	50 - 4500 rpm
Tooling System	Gang Type	Gang Type

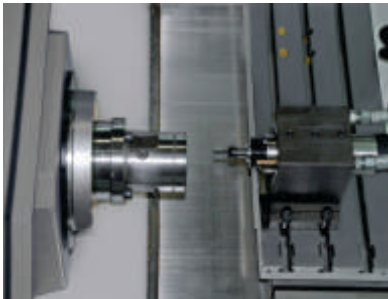
*Depends on Work holding device, Tooling & Workpiece



Part Catcher



Gang Type Linear Tooling



Live Tool System



DX Series

CNC Turning Center



DX150

Compact and Versatile

- Designed to produce small components and between center workpieces.
- Unique vertical (90°) monoblock design providing stability with least distortion, even for smooth dry machining with heavy cuts for faster production.
- Vertical fall of chip and coolant, prevents damage to Linear Motion Guideways and Ball Screws, thus increasing overall machine life.

PRODUCTIVITY
SOLUTIONS



Specifications

DX150

Chuck Size	170 mm
Max. Turning Dia.	250 mm
Max. Turning Length	350 mm*
Travel (X / Z Axis)	150 / 350 mm
Rapid Feed (X / Z Axis)	24 m/min
Spindle Power - Fanuc	7.5 / 5.5 kW (A ₂ 5)
Spindle Power - Siemens	10.5 / 7 kW (A ₂ 5)
Spindle Speed Range	50 - 4500 rpm
Max. Bar Capacity	38 mm
Tooling System	8 St. Servo Turret

* Depends on Work holding device, Tooling & Workpiece



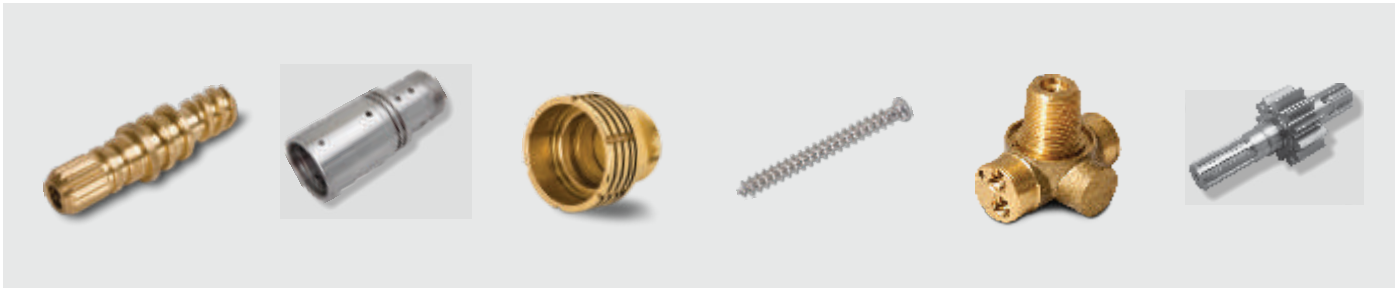
High Speed Servo Turret



Operator & TPM friendly



Tail Stock



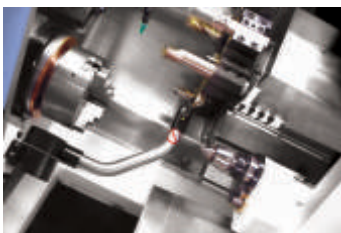


DX200

One of the most successful model in Indian Market

Your partner to deliver the optimum productivity with many features, delivering optimum performance to match demands of various workpiece size applications.

- Step-up Structure** concept with widely space guideways at higher tool life and least vibration even with hard material higher diameters. No vibration, means better surface finish even with grooving or threading materials.



Automatic Tool Setting



Step-up Structure



Operator Friendly



Tail Stock

Specifications

	DX 200 - 3A	DX 200 - 3B	DX 200 - 4A	DX 200 - 4B
Chuck Size	170 mm	210 mm	170 mm	210 mm
Max. Turning Dia.	320 mm		320 mm	
Max. Turning Length*	300 mm		400 mm	
Travel (X / Z Axis)	175 / 300 mm		175 / 400 mm	
Rapid Feed (X / Z Axis)	30 m/min		30 m/min	
Spindle Power - Fanuc	7.5 / 5.5 kW (A ₅)	11 / 7.5 kW (A ₆)	7.5 / 5.5 kW (A ₅)	11 / 7.5 kW (A ₆)
Spindle Power - Siemens	10.5 / 7 kW (A ₅)	13.5 / 9 kW (A ₆)	10.5 / 7 kW (A ₅)	13.5 / 9 kW (A ₆)
Spindle Speed Range	50 - 4000 rpm	50 - 4000 rpm	50 - 4000 rpm	50 - 4000 rpm
Max. Bar Capacity	38 mm	52 mm	38 mm	52 mm
Tooling System	8-St. Servo Turret		8-St. Servo Turret	

- High duty spindle.
- Bi-directional servo turret.
- Precision & class LM Guide & direct couple ball screw.
- Tailstock with 1-V Type & 1-Flat Type Guide.
- Rear / Front chip conveyor option

Specifications

	DX 200 - 5A	DX 200 - 5B	DX 200 - 7A	DX 200 - 7B	DX 200 - 12A	DX 200 - 12B
Chuck Size	210 mm	250 mm	210 mm	250 mm	210 mm	250 mm
Max. Turning Dia.	350 mm		365 mm		365 mm	
Max. Turning Length*	500 mm		700 mm		1200 mm	
Travel (X / Z Axis)	200 / 500 mm		200 / 700 mm		200 / 1200 mm	
Rapid Feed (X / Z Axis)	24 m/min		24 m/min		24 m/min	
Spindle Power - Fanuc	11 / 7.5 kW (A ₆)	15 / 11 kW (A ₈)	11 / 7.5 kW (A ₆)	15 / 11 kW (A ₈)	11 / 7.5 kW (A ₆)	15 / 11 kW (A ₈)
Spindle Power - Siemens	13.5 / 9 kW (A ₆)	16.5 / 11 kW (A ₈)	13.5 / 9 kW (A ₆)	16.5 / 11 kW (A ₈)	13.5 / 9 kW (A ₆)	16.5 / 11 kW (A ₈)
Spindle Speed Range	50 - 4000 rpm	50 - 3500 rpm	50 - 4000 rpm	50 - 3500 rpm	50 - 4000 rpm	50 - 3500 rpm
Max. Bar Capacity	52 mm	75 mm	52 mm	75 mm	52 mm	75 mm
Tooling System	8-St. Servo Turret		8-St. Servo Turret		8-St. Servo Turret	

* Depends on Work holding device, Tooling & Workpiece



DX Series

CNC Turning & Turn-Mill Center



Model Variants

DX250 **DX350**

(500/700/1000) (700/1000/1500/2000)

These machines are for producing world class products, with quick, accurate output and with minimum non-productive time. Robust machining of bigger components that require higher cutting load with better dampening capacity maintaining consistent accuracy, marginally boosting working capability.



- 45° Slant Bed Monoblock Structure with improved bed twisting rigidity for heavy duty & dynamic load cutting
- Step-up structure for DX 250-500
- Wide precision class Linear Motion (Roller Type) Guideways with directly coupled Ball screws, for enhanced machining capability
- Capable to deliver best performance even in hard part machining
- Heavy duty spindle with angular contact bearing
- Bi- Directional Servo Tool Turret
- Special plunger system for feed control movement of tailstock
- Wider working area & Efficient Chip Disposal system
- Easy-to-operate operator panel for operator friendliness
- Gearbox option for application demanding higher torque at lower rpm



Rigid Turret



Wide Working Area

Specifications

	DX 250 - 500	DX 250 - 700	DX 250 - 1000	DX 350 - 700A	DX 350 - 700B
Chuck Size	210 mm	250 mm		250 mm	305 mm
Max. Turning Dia.	490 mm	480 mm		600 mm	
Max. Turning Length*	500 mm	700 mm	1000 mm	700 mm	
Travel (X / Z Axis)	250 / 520 mm	250 / 700 mm	250 / 1000 mm	310 / 700 mm	
Rapid Feed (X / Z Axis)	24 m/min	24 m/min		24 m/min	
Spindle Nose	A ₂ 8	A ₂ 8		A ₂ 8	A ₂ 11
Spindle Power - Fanuc	15 / 11 kW	15 / 11 kW		18.5 / 15 kW	22 / 18.5 kW
Spindle Power - Siemens	16.5 / 11 kW	18 / 12 kW		18 / 12 kW	27.8 / 18.5 kW
Spindle Speed Range	50 - 3500 rpm	50 - 2500 rpm		50 - 2500 rpm	50 - 1500 rpm
Max. Bar Capacity	75 mm	65 mm		65 mm	90 mm
Tooling System	8 St. Survo Turret	8 - St. Survo Turret		8 -St. Servo Turret	
Tailstock (Dia. / Stroke)	85 / 120 mm	85 / 120 mm		85 / 120 mm	

* Depends on Work holding device, Tooling & Workpiece



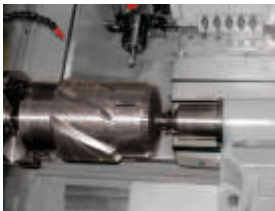
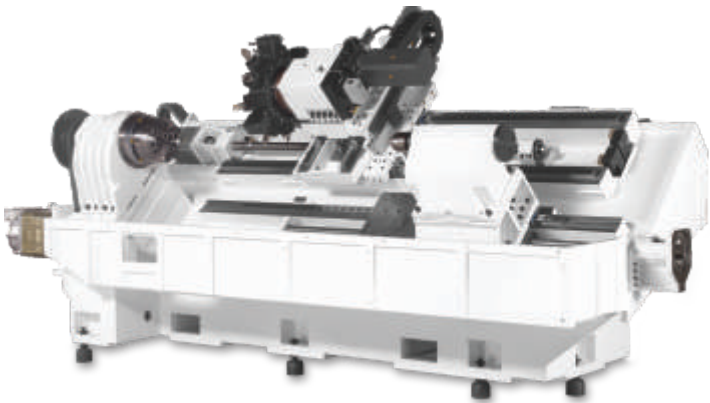


FLEXIBILITY FOR INTERFACING VARIOUS PRODUCTIVITY IMPROVING OPTIONS

Digital-Tailstock, High Speed Electro Spindle, Steady-Rest, Automatic Tool Setting, Gear-Box for higher torque at lower rpm, Big bore spindle for heavy jobs. More atomization by interfacing machines with Over-Head Gantry system / Robotic arm High Speed Unmanned Mass Production.

TURN-MILL OPTION WITH DRIVEN TOOL TURRET

Servo driven 12 Station -Live Tool Indexing Turret can be chosen for Turn-Mill Center version which allows mix and match of static or powered tools. Turret movement is controlled by High-Torque motor for various applications like PCD Drilling & Tapping, OD & ID profiles with Radial and Axial Live Tools.



Radial Live Tool



Axial Live Tool



Hydraulic Steady Rest



Overhead Gantry Interface

	DX 350 - 1000A	DX 350 - 1000B	DX 350 - 1500A	DX 350 - 1500B	DX 350 - 2000A	DX 350 - 2000B
Chuck Size	250 mm	305 mm	250 mm	305 mm	250 mm	305 mm
Max. Turning Dia.	600 mm		600 mm		600 mm	
Max. Turning Length*	1000 mm		1500 mm		2000 mm	
Travel (X / Z Axis)	310 / 1000 mm		310 / 1700 mm		310 / 2000 mm	
Rapid Feed (X / Z Axis)	24 m/min		24 m/min		24 m/min	
Spindle Nose	A ₈	A ₂₁₁	A ₈	A ₂₁₁	A ₈	A ₂₁₁
Spindle Power - Fanuc	18.5 / 15 kW	22 / 18.5 kW	18.5 / 15 kW	22 / 18.5 kW	18.5 / 15 kW	22 / 18.5 kW
Spindle Power - Siemens	18 / 12 kW	27.8 / 18.5 kW	18 / 12 kW	27.8 / 18.5 kW	18 / 12 kW	27.8 / 18.5 kW
Spindle Speed Range	50 - 2500 rpm	50 - 1500 rpm	50 - 2500 rpm	50 - 1500 rpm	50 - 2500 rpm	50 - 1500 rpm
Max. Bar Capacity	65 mm	90 mm	65 mm	90 mm	65 mm	90 mm
Tooling System	8 -St. Servo Turret		8 -St. Servo Turret		8 -St. Servo Turret	
Tailstock (Dia. / Stroke)	85 / 120 mm		130 / 150 mm		130 / 150 mm	

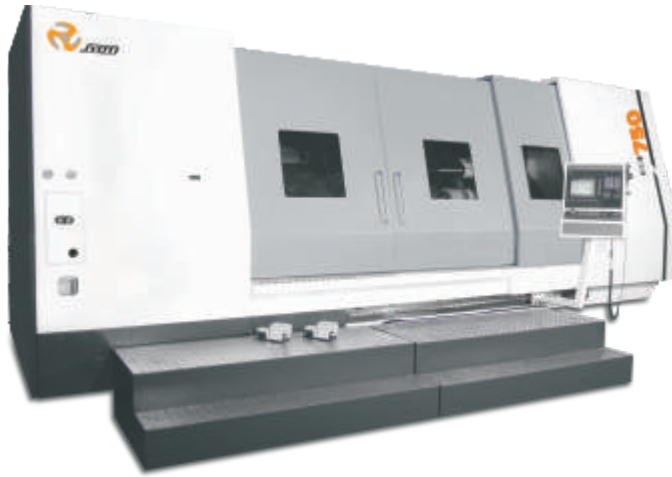
* Depends on Work holding device, Tooling & Workpiece

Beta IP Series Motor Available as an optional in Fanuc



DX Large Series

CNC Turning & Turn-Mill Center



Model Variants

DX 500

(1000/1250/2000)

DX 750

(1250/3000)

An ideal partner for machining large diameter components used in heavy engineering industry such as automobile, oil & natural gas, earth moving, various allied and subcontracting industries.

PRODUCTIVITY
SOLUTIONS

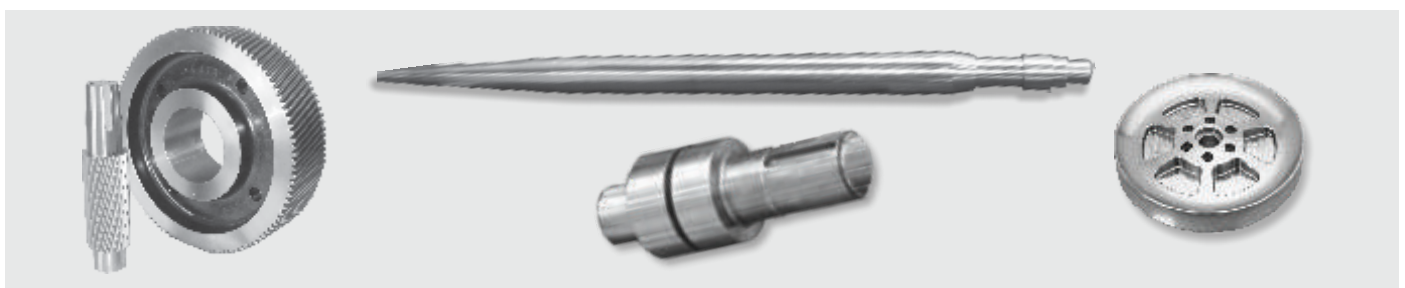
- Bed & Saddle made from higher grade cast-iron for maximum rigidity, most suitable for hard part turning
- Offer wide range of cutting sizes along with rapid positioning & bidirectional turret, for unmatched cycle time.
- FEM proven construction to optimally work with high speed & heavy duty process forces with minimal vibrations
- Wide precision class Linear Motion (Roller Type) Guideways with directly coupled Ball screws, for enhanced machining capability
- Heavy duty spindle with angular contact bearing with option of gearbox for high torque at lower rpm



Multiple Steady Rest For Extra Long Job

Specifications	DX 500 1000 A	DX 500 1000 B	DX 500 1000 C	DX 500 1250 A	DX 500 1250 B	DX 500 1250 C
Chuck Size	305 mm	380 mm	380 mm	305 mm	380 mm	380 mm
Max. Turning Dia.	700 mm			800 mm		
Max. Turning Length*	1000 mm			1250 mm		
Travel (X / Z Axis)	360 / 1000 mm			410 / 1250 mm		
Rapid Feed (X / Z Axis)	24 m/min			24 m/min		
Spindle Nose	A ₂ 8	A ₂ 11	A ₂ 15	A ₂ 8	A ₂ 11	A ₂ 15
Spindle Power - Fanuc	22 / 18.5 kW	26 / 22 kW	37 / 30 kW	22 / 18.5 kW	26 / 22 kW	37 / 30 kW
Spindle Power - Siemens	27.8 / 18.5 kW	33 / 22 kW	45 / 30 kW	27.8 / 18.5 kW	33 / 22 kW	45 / 30 kW
Spindle Speed Range	50 - 2500 rpm	50 - 1500 rpm	50 - 1200 rpm	50 - 2500 rpm	50 - 1500 rpm	50 - 1200 rpm
Max. Bar Capacity	65 mm	90 mm	90 mm	65 mm	90 mm	90 mm
Tooling System	8 - St. Servo Turret			8 - St. Servo Turret		
Tailstock (Dia./ Stroke)	130 / 150 mm			130 / 150 mm		

* Depends on Work holding device, Tooling & Workpiece



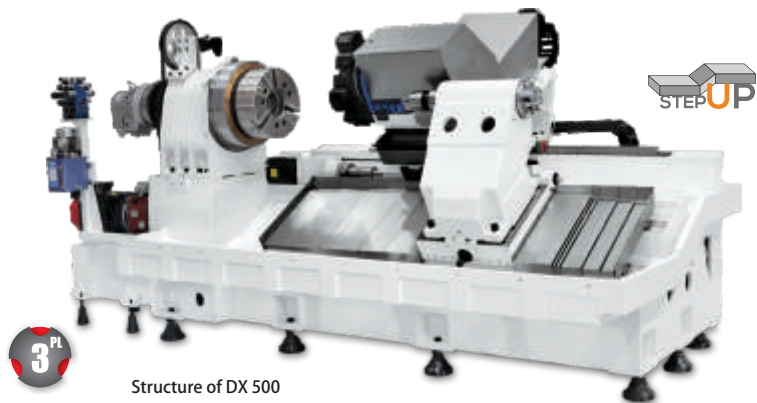


TURN-MILL OPTION WITH DRIVEN TOOL TURRET

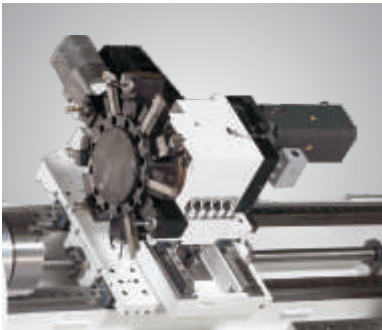
Servo driven 12 Station -Live Tool Turret can be chosen for Turn-Mill Center version which allows mix and match of static or powered tools. Turret movement is controlled by High-Torque motor for various applications like PCD Drilling & Tapping, OD & ID profiles with Radial and Axial Live Tools.



- Wider working area & Efficient Chip Disposal system
- Operator and TPM friendly



Structure of DX 500



Live Tool Turret for TMC

Specifications	DX 500 2000 A	DX 500 2000 B	DX 500 2000 C	DX 750 1250 A	DX 750 1250 B	DX 750 3000 A	DX 750 3000 B
Chuck Size	305 mm	380 mm	380 mm	380 mm	380 mm	380 mm	380 mm
Max. Turning Dia.	800 mm			920 mm	920 mm	920 mm	920 mm
Max. Turning Length*	2000 mm			1250 mm	1250 mm	3000 mm	3000 mm
Travel (X / Z Axis)	410 / 2000 mm			480 / 1250 mm	480 / 1250 mm	480 / 3100 mm	480 / 3100 mm
Rapid Feed (X / Z Axis)	24 m/min			24 m/min	24 m/min	24 / 20 m/min	24 / 20 m/min
Spindle Nose	A ₂ 8	A ₂ 11	A ₂ 15	A ₂ 11	A ₂ 15	A ₂ 11	A ₂ 15
Spindle Power - Fanuc	22 / 18.5 kW	26 / 22 kW	37 / 30 kW	26 / 22 kW	37 / 30 kW	26 / 22 kW	37 / 30 kW
Spindle Power - Siemens	27.8 / 18.5 kW	33 / 22 kW	45 / 30 kW	33 / 22 kW	45 / 30 kW	33 / 22 kW	45 / 30 kW
Spindle Speed Range	50 - 2500 rpm	50 - 1500 rpm	50 - 1200 rpm	50 - 1500 rpm	50 - 1200 rpm	50 - 1500 rpm	50 - 1200 rpm
Max. Bar Capacity	65 mm	90 mm	90 mm	90 mm	90 mm	90 mm	90 mm
Tooling System	8 - St. Servo Turret			12 - St. Servo Turret	12 - St. Servo Turret	12 - St. Servo Turret	12 - St. Servo Turret
Tailstock (Dia. / Stroke)	130 / 150 mm			170 / 200 mm	170 / 200 mm	170 / 200 mm	170 / 200 mm

* Depends on Work holding device, Tooling & Workpiece

*Large Spindle Bore Options Available



VTL Series

CNC Vertical Turning Center



3-SIDED ADJUSTABLE SUPPORTS FOR AXIS

3-sided support on both X & Z - Axis helps maintaining tolerance between axis & guide-ways during reversal movement delivering long term accuracy and durability.

Model Variants

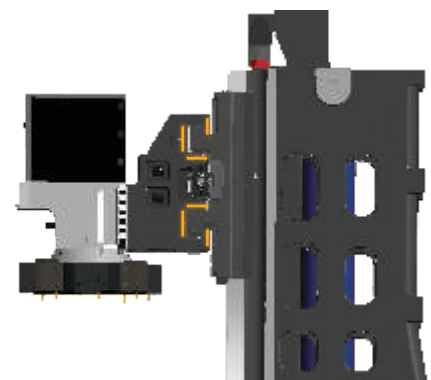
VTL500 VTL750

Compact and Versatile

VTL Series machines are specially designed for heavy and larger diameter component machining of heavy engineering industries like railways, heavy automobiles, oil & natural gas, compressor, power, earthmoving and other with addition to components like valves, pumps, motor bodies, gear blanks and components from various subcontracting industries.

- Box type design for heavy duty & dynamic load cutting
- High grade C.I. thermally stable bed & column
- Broad hardened and ground guide for rigidity at greater extension of turret
- Rigid structure with wider working area & Efficient Chip Disposal system
- Bi- Directional Servo Tool Turret
- Easy-to-operate operator panel for operator friendliness
- Hydraulic Counter Balancing system
- Ergonomic design for easy component loading / unloading
- Live Tool Turret option available for turning & milling in single set-up

PRODUCTIVITY
SOLUTIONS



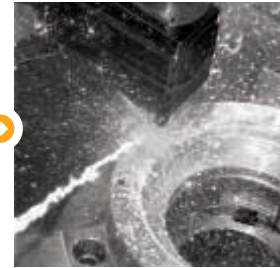
Specifications	VTL 500 5A	VTL 500 5B	VTL 500 7A	VTL 500 7B	VTL 750A	VTL 750B
Chuck Size	315 mm	400 mm	315 mm	400 mm	400 mm	530 mm
Max. Turning Dia.	500 mm	500 mm	500 mm	500 mm	750 mm	750 mm
Max. Turning Height*	500 mm	500 mm	750 mm	750 mm	750 mm	750 mm
Travel (X / Z Axis)	265 / 500 mm	265 / 500 mm	265 / 750 mm	265 / 750 mm	400 / 750 mm	400 / 750 mm
Rapid Feed (X / Z Axis)	20 m/min	20 m / min	20 m/min	20 m / min	20 m / min	20 m/min
Spindle Nose	A2-8	A2-11	A2-8	A2-11	A2-11	A2-15
Spindle Power - Fanuc	18.5 / 15 kW	22 / 18.5 kW	18.5 / 15 kW	22 / 18.5 kW	22 / 18.5 kW	22 / 18.5 kW
Spindle Power - Siemens	27.8 / 18.5 kW	27.8 / 18.5 kW	27.8 / 18.5 kW	27.8 / 18.5 kW	27.8 / 18.5 kW	46.5 / 31 kW
Spindle Speed	2500 rpm	2000 rpm	2500 rpm	2000 rpm	2000 rpm	1200 rpm
Gearbox	Opt.	Std.	Opt.	Std.	Std.	Std.
Max. Boring Bar Dia.	50 mm	50 mm	50 mm	50 mm	60 mm	60 mm
Turret	8 St. Servo	8 St. Servo	8 St. Servo	8 St. Servo	8 St. Servo	8 St. Servo

* Depends on Work holding device, Tooling & Workpiece



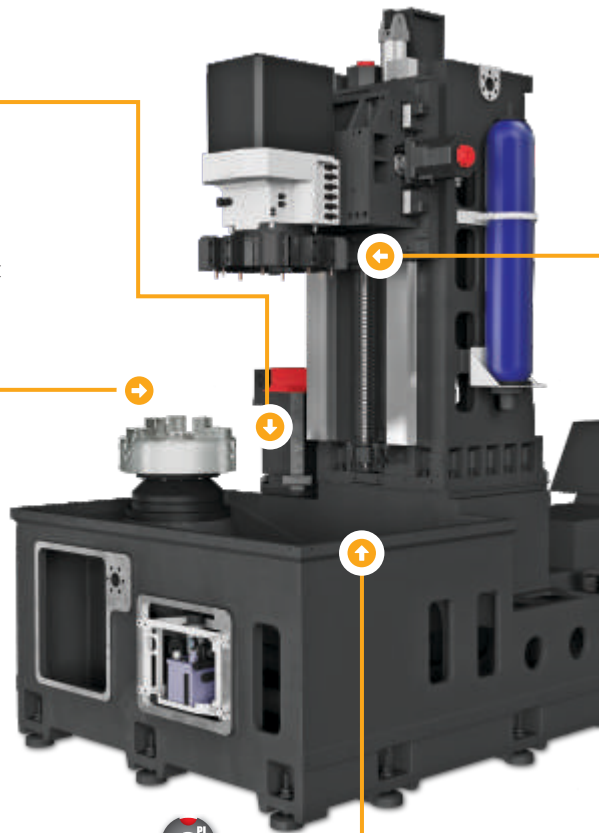
TWO STAGE AUTO-SHIFTING GEARBOX

For higher cutting torque at lower rpm during large size component machining



TURN-MILL VERSION

12 station servo driven live tool turret on to avoid multiple setup and increase the productivity. Turret movement is controlled by high torque servo motors for various applications like PCD Drilling, Tapping and OD & ID profiles with radial and axial live tools.

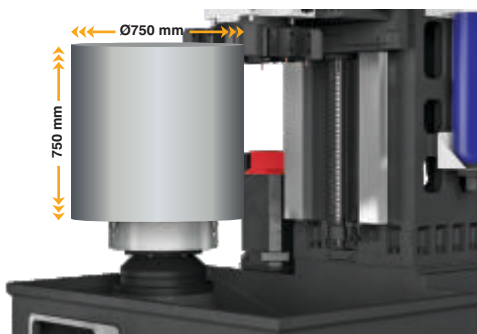


3 PL



EFFICIENT CHIP REMOVAL

Gravity fall of chips with hollow centre & flush coolant system for effective chip evacuation through rear side of machine.



BETTER MACHINING RANGE CAPABILITY

Delivering to the need of present market requirement for huge diameter components in full turning range capability.

[MAX. DIA. of component Turned to FULL LENGTH]



DXG Series

CNC Turning Center with Automation



DXG100

CNC Chucker With Gantry Robot

- An ideal solution for manufacturers looking for complete automation with mass productivity of chucker type components.



- Monoblock designed structure for better rigidity during full load conditions
- Special preloaded job conveyors for long unattended production
- Efficient chip removal system with free chip falls to match production rate
- Machine for flexible Machine utilization of 2 identical operations or 1st & 2nd operations with Turn-around station option

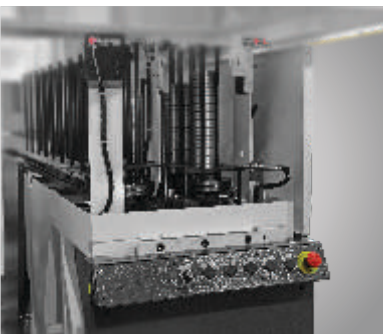
Specifications

DXG 100

Chuck Size	170 mm
Max. Job Dimension (Loader Capacity)	Ø85 mm X 45 mm
Travels (X / Z Axis)	360 / 200 mm
Rapid Traverse (X / Z Axis)	24 m/min
Spindle Power - Fanuc	7.5 / 5.5 kW (A ₂ 5)
Spindle Power - Siemens	10.5 / 7 kW (A ₂ 5)
Spindle Speed Range	50 - 4500 rpm
Max. Job Weight	1 kg X 2
Tooling System	Gang Type



Integral 2-Axis Gantry Robot



Auto Feeder



3rd



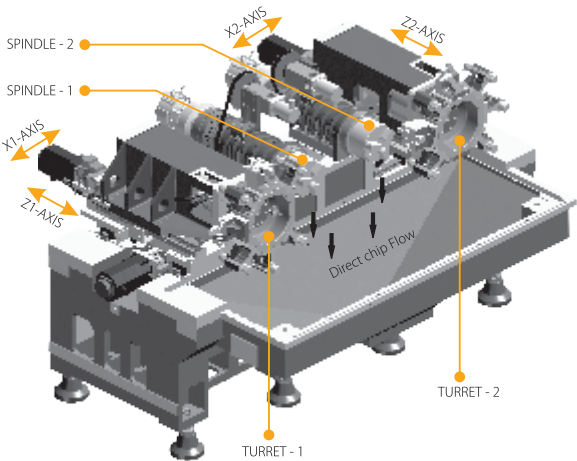
TS Series

CNC Turning Center with Automation

Ts120

Twin Spindle Twin Turret With Gantry Robot

- Automation with twin turret, twin headstock & gantry arm for uninterrupted mass production.



3-AXIS GANTRY ROBOT

High dynamic gantry with dual gripper swivel head helps instant and accurate automation Loading/ Unloading enabling long hours of unattended operation.

Stroke (X/Y/Z) : 1850/560/150 mm
Job Capacity : Ø 120 x 80 mm



Integral 3-Axis Gantry Robot

Twin Spindle (A₅) with Twin Turret 2 [16 (8 x 8)]

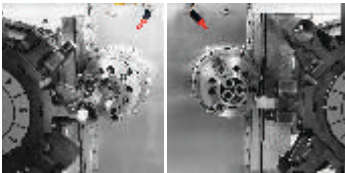
Specifications

TS 120

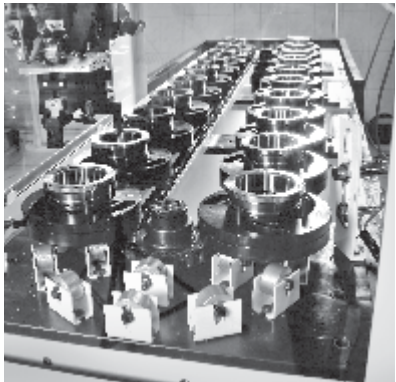
Chuck Size	170 mm
Max. Job Dimension (Loader Capacity)	Ø120 mm X 80 mm
Travels (X / Z Axis)	75 / 145 mm
Rapid Traverse (X / Z Axis)	24 m/min
Servo Turret (No. of Tools)	16 (8 + 8)
Spindle Power - Fanuc	7.5 / 5.5 kW (A ₅)
Spindle Power - Siemens	8.3 / 5.5 kW (A ₅)
Spindle Speed Range	50 - 4500 rpm
Max. Job Weight	3 kg X 2



Work Piece Change-Over Station



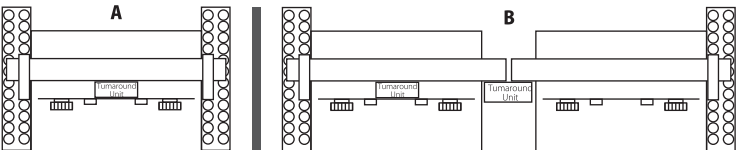
Twin Servo Turret with Twin Spindle



Customized Auto Feeder System



CUSTOMIZE LINE WITH DIFFERENT LAYOUT OPTIONS



Twin chucker machine with two gantry loader

Twin chucker machine combination for line production to match cycle time of two operations

AT/ATM Series

Inverted Turning Center



Model Variants

AT160 **ATM160**

Inverted Spindle with Automation

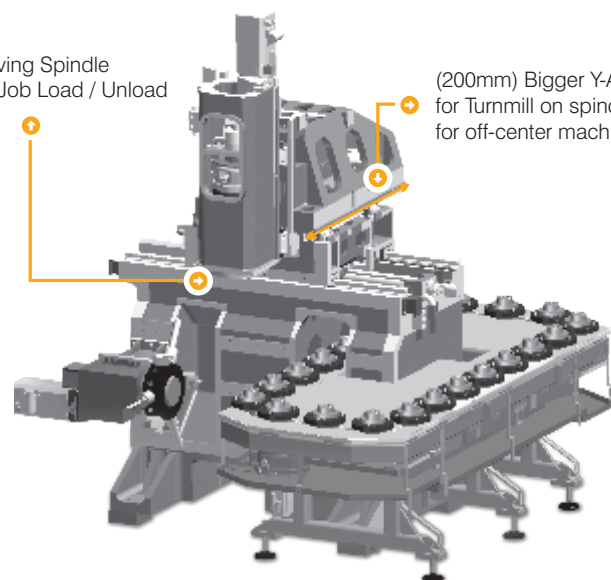
- Vertical Line Series machines with automated job feeding feature are quite suitable for batch type daily production to mass production jobs performing variety of operations in one setup like Turning, Milling, Drilling & Tapping and even Grinding.



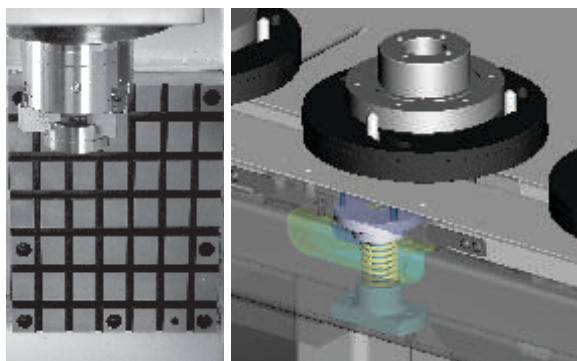
ADVANTAGES OF VERTICAL LINE MACHINES

- Spindle automatically loads/unloads job reducing cyclotime.
- Multi Function Station for Customization with auto job feeding arrangement
- Very high rapid traverse with 5000 rpm electro spindle ensures reduced cyclotime
- Ideal chip flow (directly falls to the bottom chip conveyor) ensures ease of maintenance and better machine life
- Compact footprint
- Easily replaces horizontal single spindle machines with of gantry loaders or robots because of its simplicity and compactness.

Moving Spindle
for Job Load / Unload



(200mm) Bigger Y-Axis
for Turnmill on spindle,
for off-center machining



Customized
Tool Station

Pick up Station

Specifications

	AT 160	ATM 160
Chuck Size	160 mm [200 mm]	
Max. Job Capacity (Ø X L) of Auto Loader	Ø160 X 200mm (10 kg)	
Travel (X / Y / Z Axis)	700 / NA / 300 mm	700 / 200 / 300 mm
Rapid Traverse (X / Z Axis)	50 m/min	
Turret Type	8- St Servo	12 - St. Live Tool
Customized Tooling Table	340 x 430 mm	
Spindle Motor Power - Fanuc	18.5 / 15 kW	
Spindle Motor Power - Siemens	9 / 7.5 kW	
Spindle Speed Range	50 - 5000 rpm	
Spindle Nose	Flat Dia. 140	



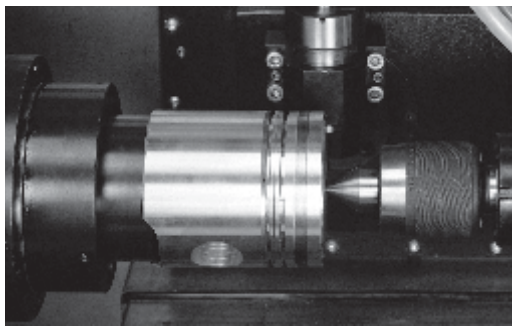
i Sect

Camless Oval Turning Center

iSect

Catching the pulse with linear motors for ovality

- With cutting edge technology and research, iSect the Non Circular Turning Machine has become the first Indian Machine, specially designed for Aluminum Piston Oval Turning to help users to cope-up with various national and international standard norms.



Specifications

i Sect

Travel (X/Z Axis)	120 / 350 mm
Travel Y Axis (Linear)	25 mm
Max. Turning Length	300 mm
Max. Turning Dia.	200 mm
Rapid Feed (X/Z Axis)	20 m/min
Spindle Power - Siemens (S6-40% /Cont. Rating)	13 / 10 kW (A ₂ 5)
Spindle Speed Range	50 - 3000 rpm
Min. C-Axis Increment	0.001°
Quill (Dia. / Stroke)	75 / 100 mm



Electro Spindle with C Axis

High power electro spindle with quick acceleration / deceleration. Hydraulic disc brake in C-Axis.

Y-Axis

Special linear motor on Y-axis for maximum dynamics and accuracy.

Turret & Tailstock

I Sect is available with standard tail stock & optional 4 station tool turret for jobs like Diesel Engine Pistons with Cast Iron Piston Rings. Changing of tools allows using different tools for different surfaces and thus saving tool life.



POTS (Piston Oval Turning Software)

POTS is a programming software by JYOTI, exclusively used for programming Piston Oval Turning. This software can be used to create almost all type of Piston Profiles. The programs created in POTS can be verified by the graphic display of Piston Profiles.

AX Series

CNC High Precision Turning & Turn-Mill Center



Model Variants

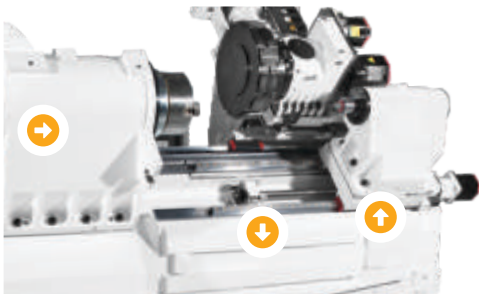
AX200 **AX300**

Compact and Versatile

Moving a step ahead in achieving even higher level of accuracy & precision, AX Series machines have been designed. Thus to cater increasing demand of market for multi-tasking with highest precision in turning and milling to deliver productivity solutions with reliability.



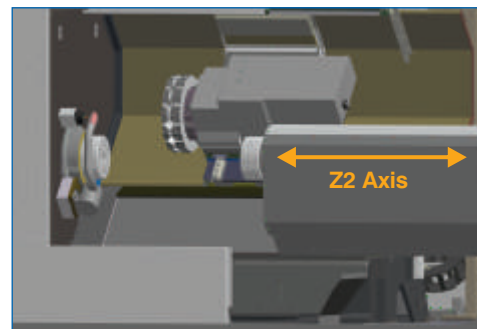
- Roller type LM Guideways for higher rigidity and accuracy to maximize productivity.
- Digital tailstock with option to replace with Sub-spindle.
- 1st and 2nd setup machining in single part clamping with better accuracy.
- Single piece slant bed architecture made out of high grade cast iron for maximal rigidity working at higher feed rates up to **35 m/min**.
- Off center machining capability due to Y-Axis in turret.
- Linear Glass Scale delivering (6 μm) positioning with (3 μm) repeatability.
- Fully capable to interface with various other productivity improvement options for better output.
- Machining capability of angled surfaces and complex part machining.



MAIN ELECTRO
SPINDLE

DIGITAL
TAILSTOCK

STEADY REST
PROVISION



Sub Spindle with Z-Axis Movement



(Main + Secondary) Electrospindle

Powerful electrospindle as standard, enclosed in headstock made out of closed grain casting and provided with provision for better heat dissipation.

- Hydraulically clamped C-axis disc brake to enable heavy duty and precision milling operations.
- Sub-spindle has Z-Axis movement to pick component from main spindle.
- Sub-spindle can work in synchronisation to main spindle for critical long shaft application.

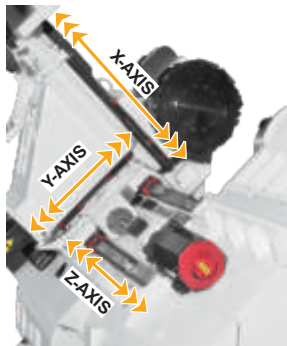




Axial-Live Tool



Radial-Live Tool



Y-AXIS FUNCTION FOR DIFFERENT APPLICATION

In Y-axis plane, tools can move in a (+) or (-) direction perpendicular to the Z-axis and spindle centre line, Y motion is away from the door of the machine. Various shapes of cutting as below

- On-centre face groove
- Off-centre side grooving
- Poly side machining
- Y & X circular interpolation

Specifications

	AX 200	AX 200 M	AX 200 MY	AX 200 MSY
Chuck Size	210 mm	210 mm	210 mm	210 mm
Max. Turning Dia.	370 mm	330 mm	330 mm	330 mm
Max. Turning Length*	325 / 625 mm	325 / 625 mm	325 / 625 mm	625 mm
Travel (X / Y / Z Axis)	200 / NA / 325 & 625 mm	200 / NA / 325 & 625 mm	200 / ± 40 / 325 & 625 mm	200 / ± 40 / 625 mm
Rapid Feed (X / Y* / Z Axis)	24 / NA / 35 m/min	24 / NA / 35 m/min	24 / 24 / 35 m/min	24 / 24 / 35 m/min
Spindle Power	10 kW (A ₂ 6)	10 kW (A ₂ 6)	10 kW (A ₂ 6)	10 kW (A ₂ 6)
Spindle Speed Range	5000 rpm	5000 rpm	5000 rpm	5000 rpm
Sub Spindle Power	--	--	--	7 kW (A ₂ 5)
Tooling System	8 St. Servo Turret	12 St. LTT Turret	12 St. LTT Turret	12 St. LTT Turret
Tailstock	Digital with Live Quill	Digital with Live Quill	Digital with Live Quill	---

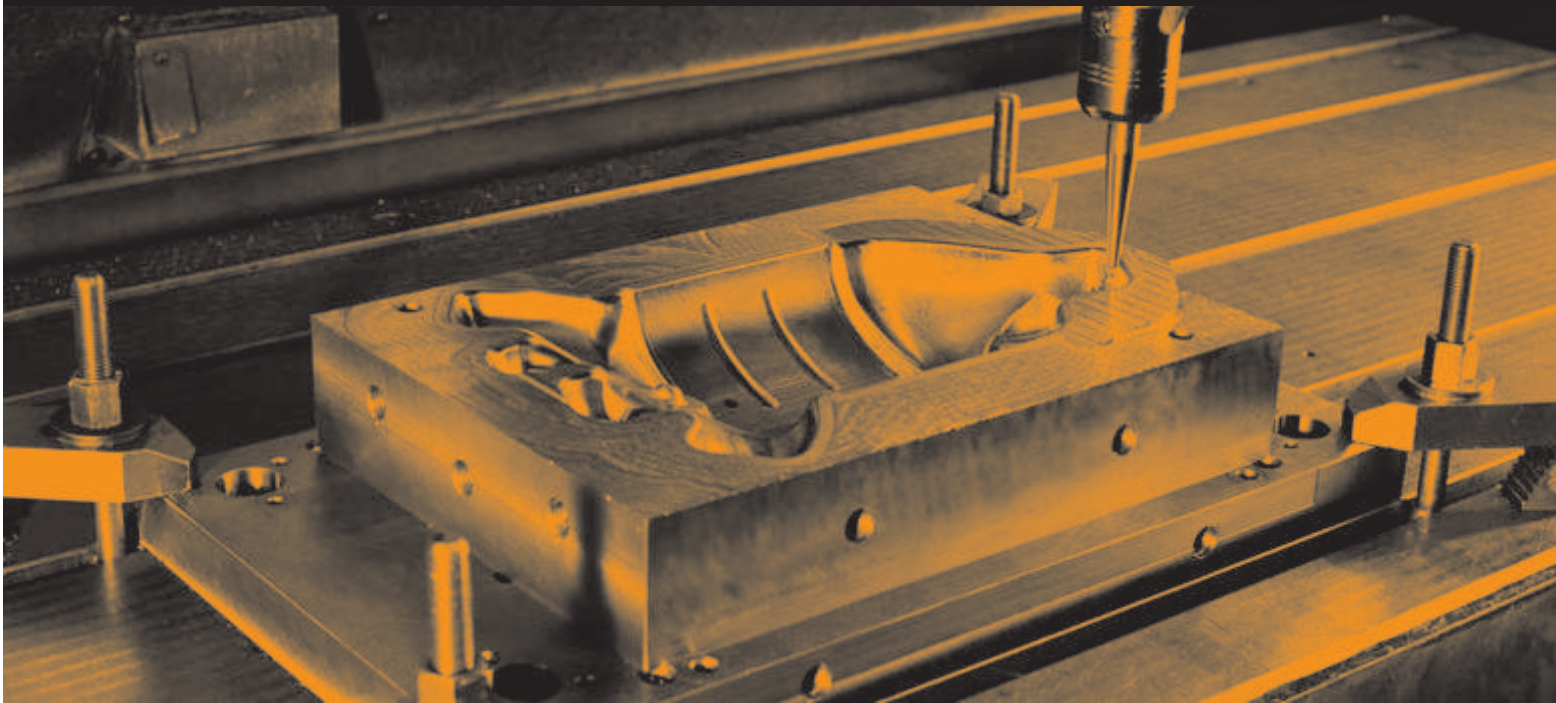
Specifications

	AX 300	AX 300 M	AX 300 MY	AX 300 MSY
Chuck Size	250 mm	250 mm	250 mm	250 mm
Max. Turning Dia.	480 mm	420 mm	420 mm	420 mm
Max. Turning Length*	600 / 1200 mm	600 / 1200 mm	600 / 1200 mm	600 mm
Travel (X / Y / Z Axis)	250 / NA / 625 & 1225 mm	250 / NA / 625 & 1225 mm	250 / ± 50 / 625 & 1225 mm	250 / ± 50 / 625 mm
Rapid Feed (X / Y* / Z Axis)	24 / NA / 30 m/min	24 / NA / 30 m/min	24 / 24 / 30 m/min	24 / 24 / 30 m/min
Spindle Power	20 kW (A ₂ 8)	20 kW (A ₂ 8)	20 kW (A ₂ 8)	20 kW (A ₂ 8)
Spindle Speed Range	4000 rpm	4000 rpm	4000 rpm	4000 rpm
Sub Spindle Power	--	--	--	10 kW (A ₂ 6)
Tooling System	8 St. Servo Turret	12 St. LTT Turret	12 St. LTT Turret	12 St. LTT Turret
Tailstock	Digital with Live Quill	Digital with Live Quill	Digital with Live Quill	---

* Depends on Work holding device, Tooling & Workpiece

* If Applicable

Vertical / Horizontal Machining Centers (3-Axis)



Mill-Tap Center

Tachyon Series
Mill-Tap Series

Production Series

PX Series
RX Series
RAX Series

Die-Mould Series

RDX Series
K Mill / KX Series
Performance Series

Die-Mould Large Series

Performance Large Series
EX Series
NX Series

Horizontal Machining Center

HX Series
HSX Series

TACHYON Series

High Speed Mill-Tap Center

Model Variants

TACHYON 4 TACHYON 5 TACHYON 7

Compact and Versatile

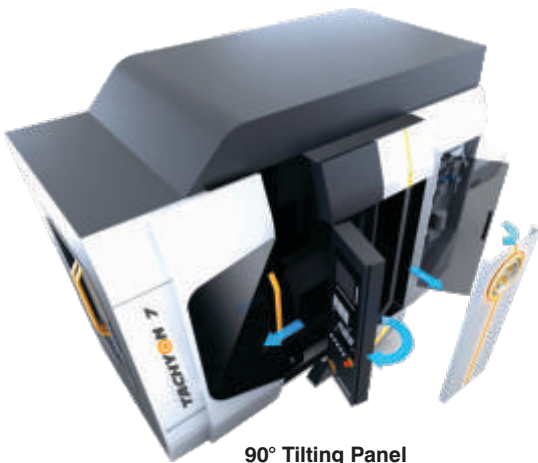
- Machine is totally dedicated to fast drilling, tapping and light milling operations for small & medium mass production components to achieve cut-throat cycletime with almost nil loading/unloading time.



- All axis movement on top, none on table
- Very high axis acceleration upto **15 m/s²**
- Rapid rate (X/Y/Z : **60 m/min**)
- Integrated workpiece changer (changeover time : **4 Sec**)



HSM

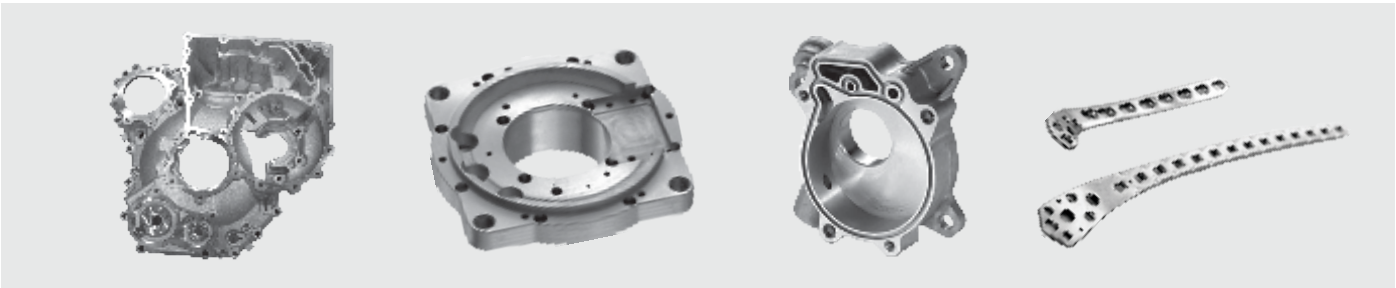


90° Tilting Panel

- Ideal for continuous Drilling & Tapping applications
- Combination of high speed & precision [ATC + Work Piece Changer + Axis Rapid with high acceleration] help achieve productivity
- 3 - LM Guide in Y-Axis + highly stable X & Z-Axis more overall stability during demanding dynamic load condition
- Direct-coupled powerful and precise spindle motor
- Perfect potential partner for In-Line machining
- Ergonomic design for operator and TPM friendly
- Flexibility of mounting 4th & 5th rotary table or hydraulic fixture interface
- Effective Chip removal

Specification	TACHYON 4	TACHYON 5	TACHYON 7
Pallet Table Section (Each)	500 X 400 mm	600 X 400 mm	800 X 400 mm
Travels (X/Y/Z Axis)	400 / 400 / 450 mm	550 / 400 / 450 mm	750 / 400 / 450 mm
Rapid Traverse (X/Y/Z Axis)	60 m/min	60 m/min	60 m/min
Pallet Load Capacity (Each)	250 kg X 2	300 kg X 2	300 kg X 2
Max. Spindle Speed (Taper)	10000 (BT 30)	10000 (BT 30)	10000 (BT 30)
Spindle Power - Siemens	4.8 kW	4.8 kW	4.8 kW
Tool Storage Capacity	16 [24]	16 [24]	16 [24]

[] Options



MILL TAP Series

Mill-Tap Center



Model Variants

MILL TAP10 **MILL TAP20**

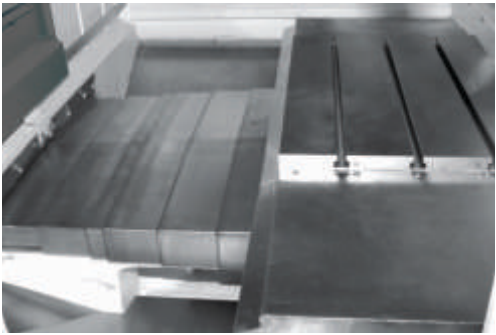
Compact and Versatile

Mill Tap Centers and PX Series have been designed and developed with the capability to deliver high speed, high performance and high productivity requirements of industries seeking performance for production workpieces in 3 & 4 axis machining segment.



Specifications

	Mill Tap 10	Mill Tap 20
Working Table size	660 X 360mm	660 X 460mm
Travel (X/Y/Z Axis)	510 / 410 / 510 mm	510 / 510 / 510 mm
Rapid Traverse (X/Y/Z Axis)	40 m/min	
Table Load Capacity	250 kgf	
Max. Spindle Speed	8000 rpm	
Spindle Taper	BT-30	
Spindle Power - Fanuc	5.5 / 3.7 kW	
Spindle Power - Siemens	5.6 / 3.8 kW	
Tool Storage Capacity	20	



Efficient Chip Removal System

HIGH PRODUCTIVITY IN MILL TAP

- Non-cutting time is reduced by increasing spindle acceleration/deceleration.
- Various functions, such as rapid traverse rate of **40 m/min** with increased acceleration for repeated start - stops for short distances during drills & tap.
- Stable machine structure to withstand high dynamic loads.
- Special and faster Automatic Tool Changer with enhanced feature to achieve tool change time of 1.6 sec.
- Use of rotary table with production system and hydraulic fixture is possible for improvising productivity.



4th Axis Rotary Production System



PX Series

Vertical Machining Center (3-Axis)

Model Variants

PX10 PX20 PX30 PX40

Easy Operating and Maintenance

- Operator Panel mounted on right side with better ergonomics for operator friendliness.
- Complete safeguard around machine ensuring safety.
- In better proximity for operator ease.
- TPM friendly design.



Specifications	PX 10	PX 20	PX 30	PX 40
Working Table size	660 X 360 mm	660 X 460 mm	915 X 360 mm	915 X 460 mm
Travel (X/Y/Z Axis)	510 / 410 / 510 mm	510 / 510 / 510 mm	760 / 410 / 510 mm	760 / 510 / 510 mm
Rapid Traverse (X/Y/Z Axis)	25 m/min		25 m/min	
Table Load Capacity	400 kgf		500 kgf	
Max. Spindle Speed	6000 rpm		6000 rpm	
Spindle Taper	BT-40		BT-40	
Spindle Power - Fanuc	7.5 / 5.5 kW		7.5 / 5.5 kW	
Spindle Power - Siemens	8.25 / 5.5 kW		8.25 / 5.5 kW	
Tool Storage Capacity	20		20	

- Precision class L.M. Guideways in all 3-Axis with directly coupled Ballscrews and thermally stable structure.
- 6000 rpm (BT40 Taper) precision spindle for various industry needs for machining on various variety materials.
- Various productivity improving options available such as Rotary Table, Coolant Through Spindle, Probes, Fully tooled up solutions...
- Rapid 40 m/min available as an option.
- Efficient chip disposal with unique center through structure from rear.



Wide Working Area



Easy Chip Removal



RX / RAX Series

Vertical Machining Center (3-Axis)



Model Variants

RX10 **RX20**

RAX10 **RAX20** **RAX30**

Your Productivity Partner

To match the demand of greater accuracy and total reliability at higher speeds, Jyoti has developed special RX Series Vertical Machining Center. These machines are rigid base C-Type machines with moving table for easy access. The high dynamic structure supports rapid axis take-offs with a higher acceleration.



- High Precision and powerful spindle with ACBB
- Extra broad column design to take heavy cutting load
- Single piece rigid broad base with heavy cross ribbings
- Rigid saddle for excellent stability
- Special design Combination of Integrated nut & bearing housing + direct coupled precision ballscrews + precision LM Guides + better motor drive with acceleration special for Die-Mould
- Rapid 40 m/min with high acceleration
- 90 Tilting Operator Panel
- Effective Chip removal



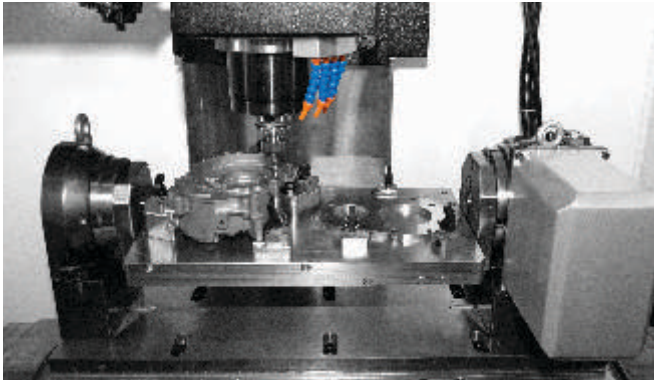
Specifications

	RX 10	RX 20
Working Table size	800 X 500 mm	1000 X 530 mm
Travel (X / Y / Z Axis)	600 / 450 / 510 mm	820 / 510 / 510 mm
Rapid Traverse (X / Y / Z Axis)	40 m/min	40 m/min
Table Load Capacity	400 kgf	400 kgf
Max. Spindle Speed	8000 rpm	8000 rpm
Spindle Taper	BT-40	BT-40
Spindle Power - Fanuc	11 / 7.5 kW	11 / 7.5 kW
Spindle Power - Siemens	15.8 / 10.5 kW	15.8 / 10.5 kW
Tool Storage Capacity	20 [24, 40]	20 [24, 40]





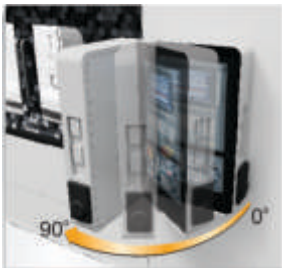
Improved Maintenance



Rotary Production System



Flush Coolant



Tilting Panel

AUTOMATIC PALLET CHANGER

Keeping in mind customer's requirement for reducing total production time, JYOTI presents Vertical Machining Centers with Auto Pallet Changer equipped with spindle of 8000 rpm.

Hydraulic fixture can be interface to reduce job setup time.

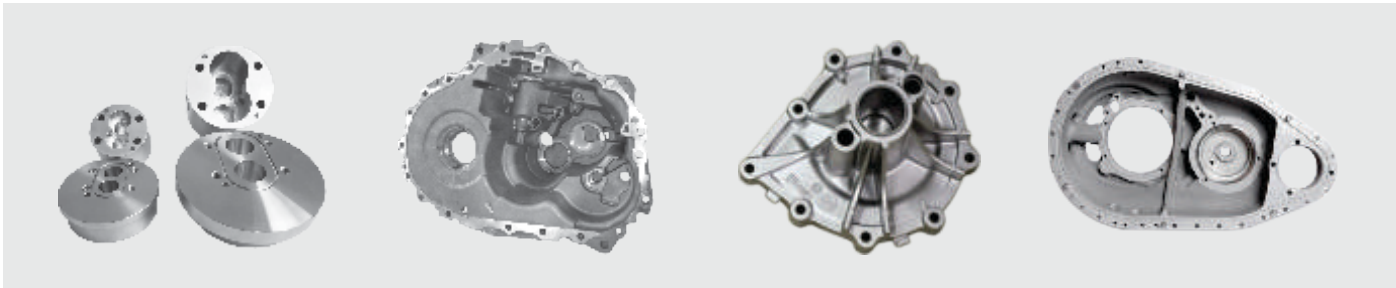


Specifications	RAX 10	RAX 20	RAX 30
Working Table size (each pallet)	600 X 430 mm	800 X 485 mm	1000 X 585 mm
No. of Pallet	2	2	2
Travel (X / Y / Z Axis)	600 / 450 / 510 mm	820 / 510 / 510 mm	1020 / 600 / 610 mm
Rapid Traverse (X / Y / Z Axis)	40 m/min	40 m/min	24 m/min
Table Load Capacity	300 kg X 2	400 kg X 2	600 kg X 2
Max. Spindle Speed (Taper)	8000 rpm (BT 40)	8000 rpm (BT 40)	8000 rpm (BT 40)
Spindle Power - Fanuc	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW
Spindle Power - Siemens	15.8 / 10.5 kW	15.8 / 10.5 kW	15.8 / 10.5 kW
Tool Storage Capacity	20 [24, 40]	20 [24, 40]	20 [24, 30]

#Series with Pallet Changer (Twin Electromechanical Type)

BROADER COLUMN

Heavy extra broad construction of column help for better stability & balancing the whole machine while taking heavy cutting load.



RDX Series

Vertical Machining Center (3-Axis)



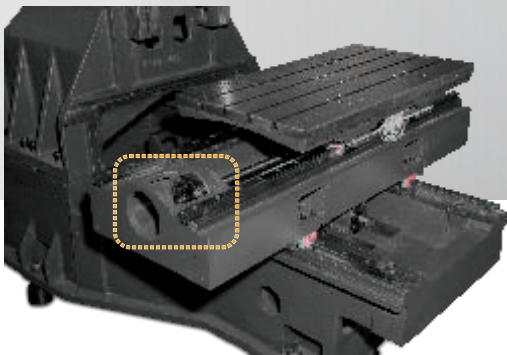
Model Variants

RDX10 RDX20

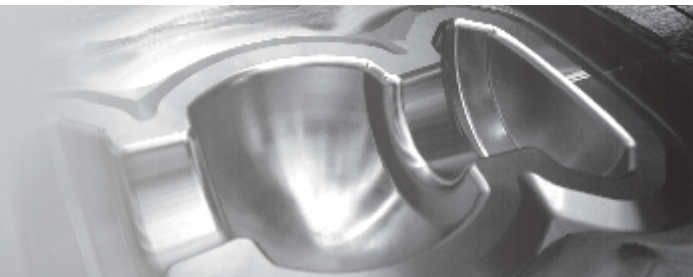
Compact and Versatile

- Jyoti has specially developed RDX Series for die and moulds application with greater accuracy. Structure with broad rigid base is made out of graded casting dampens the effect of vibration and giving better thermal stability for continuous working condition to keep the pace with growing die-mould market applications.

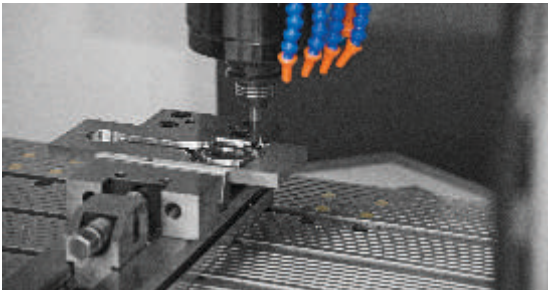
DIE & MOULD SOLUTIONS



INTEGRATED HOUSING (FRONT AND END BRACKET)



- High Precision and powerful spindle with ACBB
- Extra broad column design to take heavy cutting load
- Single piece rigid broad base with heavy cross ribbings
- Rigid saddle for excellent stability
- Special design Combination of Integrated nut & bearing housing + direct coupled precision ballscrews + precision LM Guides + better motor drive with acceleration special for Die-Mould
- 90 Tilting Operator Panel
- Effective Chip removal



Specifications

	RDX 10	RDX 20
Working Table size	800 X 500 mm	1000 X 530 mm
Travel (X / Y / Z Axis)	600 / 450 / 510 mm	820 / 510 / 510 mm
Rapid Traverse (X / Y / Z Axis)	30 m/min	30 m/min
Table Load Capacity	400 kgf	400 kgf
Max. Spindle Speed	8000 rpm	8000 rpm
Spindle Taper	BT-40	BT-40
Spindle Power - Fanuc	11 / 7.5 kW	11 / 7.5 kW
Spindle Power - Siemens	15.8 / 10.5 kW	15.8 / 10.5 kW
Tool Storage Capacity	20 [24, 40]	20 [24, 40]



K Mill / KX Series

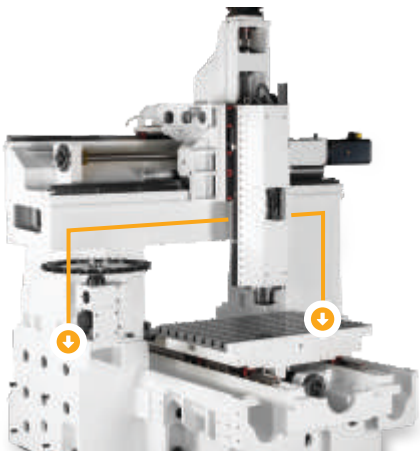
Bridge Type Vertical Machining Center (3-Axis)



Model Variants

K Mill8 K2X8 KX10
K Mill10 K2X10 K2X20 KX30

Bridge Type Machining Center
Bridging gap between big and small machines



Bridge Type Structure

These machining center enable machining operations in 3 axis, from roughing to finishing, of all kind of complex work pieces such as injection molds, forging dies, punching dies, cutting tools, aeronautic jobs or pieces for mechanics. These vertical machining center are projected to be at the highest level in its category.

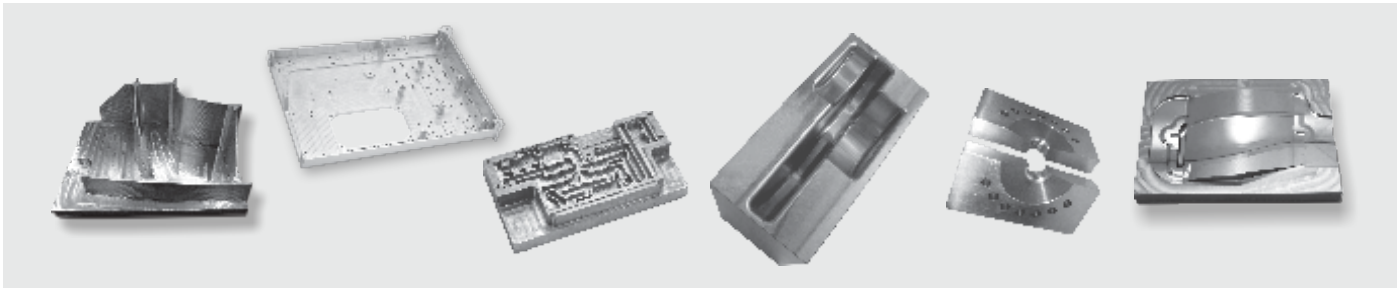
- Machining for work piece up to 2500 kg
- Harmonic 8 table structure for demanding cutting conditions.
- Hard material machining in a minimal time
- Very high accuracy in 3D contouring and profiles
- HSM (High Speed Machining) capability
- Best performance for complex applications with repeated start - stop

Specification

	K Mill 8	K Mill 10	K2X 8
Travels (X / Y / Z Axis)	700 / 600 / 500 mm	1000 / 700 / 600 mm	700 / 600 / 450 mm
Rapid Feedrate (X / Y / Z Axis)	40 / 40 / 40 m/min	30 / 30 / 18 m/min	40 / 40 / 40 m/min
Table Size	800 x 600 mm	1250 x 700 mm	800 x 600 mm
Spindle Speed (Taper)	15000 rpm (BT-40)	15000 rpm (BT-40)	24000 rpm (HSK-63A)
Spindle Power - Torque (Siemens)	15 kW - 110 / 84 Nm	15 kW - 110 / 84 Nm	25 / 20 kW - 40 / 32 Nm
Tool Changer Capacity	24	24	20 [30 / 40 / 60 / 100]
Accuracies (as per VDI / DGQ 3441)			
Positioning Uncertainty: P (X / Y / Z)	0.010 mm	0.015 mm	0.004 mm
Repeatability: (Ps Medium)	0.005 mm	0.007 mm	0.002 mm

	K2X 10	K2X 20	KX 10	KX 30
Travels (X / Y / Z Axis)	1000 / 800 / 500 mm	1200 / 1000 / 500 mm	1000 / 700 / 600 mm	1800 / 1000 / 600 mm
Rapid Feedrate (X / Y / Z Axis)	60 / 60 / 60 m/min	50 / 60 / 60 m/min	30 / 30 / 18 m/min	30 / 30 / 18 m/min
Table Size	1150 x 800 mm	1400 x 1000 mm	1250 x 700 mm	2000 x 1000 mm
Spindle Speed (Taper)	18000 rpm (HSK 63A)	18000 rpm (HSK 63A)	18000 rpm (HSK 63A)	18000 rpm (HSK 63A)
Spindle Power - Torque (Siemens)	35 / 25 kW - 130 / 86 Nm	35 / 25 kW - 130 / 86 Nm	35 / 25 kW - 130 / 86 Nm	35 / 25 kW - 130 / 86 Nm
Tool Changer Capacity	20 [30 / 40 / 60 / 100]	20 [30 / 40 / 60 / 100]	20	20 [30 / 40 / 60 / 100]
Accuracies (as per VDI / DGQ 3441)				
Positioning Uncertainty: P (X / Y / Z)	0.004 mm	0.005 mm	0.007 mm	0.009 / 0.007 / 0.007 mm
Repeatability: (Ps Medium)	0.002 mm	0.003 mm	0.005 mm	0.005 mm

Machine Capacities with Siemens Controller. [] Options



Performance Series

Vertical Machining Center (3-Axis)



DDIE & MOULD
SOLUTIONS



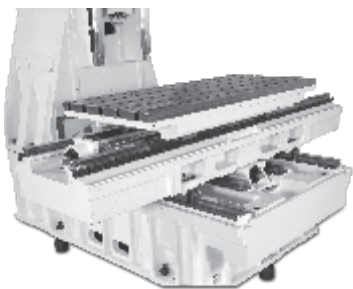
Model Variants

VMC640 **VMC850** **VMC1050**
VMC1060 **VMC1260**

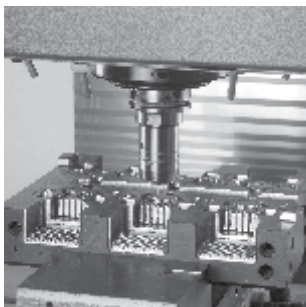
C-Frame machines at it's best

These machines have been designed to match the demand of greater accuracy delivering total reliability for complex 3D profile contours of Die & Mould applications with better cutting parameters at great acceleration/decelaration rates.

- The high dynamic structure supports rapid axis take-offs with an acceleration of 5 m/s².
- FEA proven structure made out of graded casting and heat treated for consistent accuracy for long time.
- Broad rigid heavily ribbed base with heavy column dampens the effect of vibrations while balancing machine while taking high cutting load.
- Powerful BT40 spindle for ability to efficiently work on varieties of materials
- High Torque directly coupled axis motors with widely spaced precision LM guides for higher material removal rates.
- High Speed Electro Spindle options upto 18000 rpm.
- BT 50 Spindle Available with Higher Motor Power.



4-L.M. Guideways on Y-Axis, 6-Blocks on X-Axis on VMC - 1050,1060 & 1260



Specifications

	VMC 640-DM	VMC 850-DM	VMC 1050-DM	VMC 1060-DM	VMC 1260-DM
Working Table Size	800 X 500 mm	1000 X 530 mm	1200 X 530 mm	1200 X 630 mm	1400 X 630 mm
Travels (X/Y/Z Axis)	600/400/510 mm	820/510/510 mm	1020/510/510 mm	1020/600/610 mm	1220/600/610 mm
Rapid Traverse (X/Y/Z Axis)	24 m/min	24 m/min	24 m/min	24 m/min	24 m/min
Table Load Capacity	400 kgf	500 kgf	800 kgf	900 kgf	1200 kgf
Max. Spindle Speed	10000 rpm	10000 rpm	10000 rpm	10000 rpm	10000 rpm
Spindle Taper	BT-40	BT-40	BT-40	BT-40	BT-40
Spindle Power - Fanuc	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW
Spindle Power - Siemens	15.8 / 10.5 kW	15.8 / 10.5 kW	15.8 / 10.5	15.8 / 10.5	15.8 / 10.5
Tool Storage Capacity	20 [24, 40]	20 [24, 40]	20 [24, 40]	20 [24, 40]	20 [24, 40]

Specifications

	VMC 640-P	VMC 850-P	VMC 1050-P	VMC 1060-P	VMC 1260-P
Working Table Size	800 X 500 mm	1000 X 530 mm	1200 X 530 mm	1200 X 630 mm	1400 X 630 mm
Travels (X/Y/Z Axis)	600/400/510 mm	820/510/510 mm	1020/510/510 mm	1020/600/610 mm	1220/600/610 mm
Rapid Traverse (X/Y/Z Axis)	24 m/min	24 m/min	24 m/min	24 m/min	24 m/min
Table Load Capacity	400 kgf	500 kgf	800 kgf	900 kgf	1200 kgf
Max. Spindle Speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Spindle Taper	BT-40	BT-40	BT-40	BT-40	BT-40
Spindle Power - Fanuc	15 / 11 kW	15 / 11 kW	15 / 11 kW	15 / 11 kW	15 / 11 kW
Spindle Power - Siemens	18 / 12 kW	18 / 12 kW	18 / 12 kW	18 / 12 kW	18 / 12 kW
Tool Storage Capacity	20 [24, 40]	20 [24, 40]	20 [24, 40]	20 [24, 40]	20 [24, 40]

[] Options

Performance Large Series

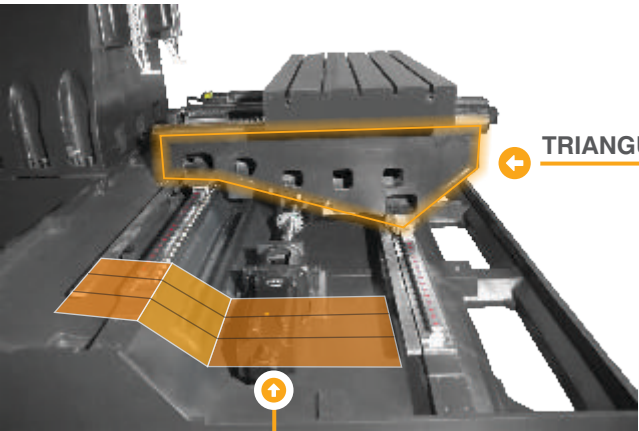
Vertical Machining Center (3-Axis)

Model Variants

VMC1570 VMC1580
VMC1870 VMC1880

T-Base machines at it's best

To match the demand of bigger size heavy component like with greater accuracy, Jyoti has developed special Performance Large Series Vertical Machining Centres broad based C type Structure with moving table for easy access. For complex work piece such as injection moulds, forging dies, large plates to keep the pace with growing market applications.



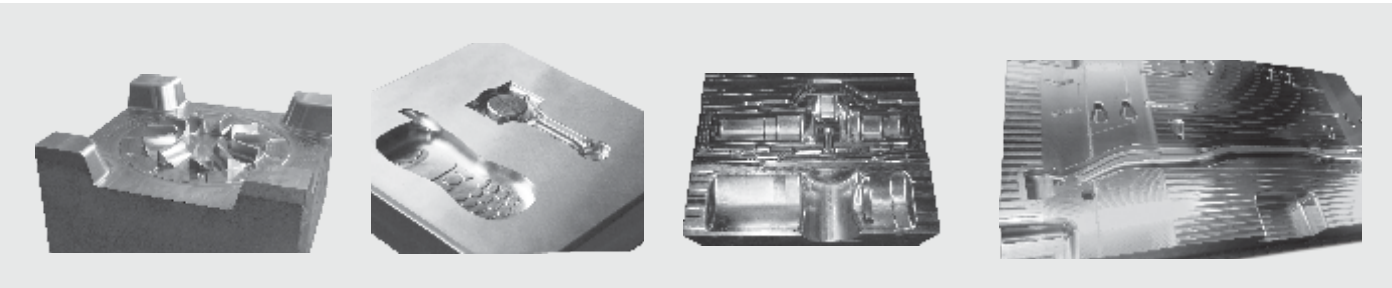
TRIANGULAR SADDLE

STEP-UP BED CONSTRUCTION

- Graded C.I. rigid step-up structure for optimum stability and maximum vibration damping even at heavy depth of cut.
- To support broad table, X axis with 8 LM blocks and Y axis with 3 LM Guideways for better dynamics with increased load carrying capacity.
- Precision class Roller type L. M. Guideways with directly coupled axis motor and ballscrew.
- FEA proven design with superior vibration damping characteristics during heavy interrupted metal cutting operations.
- High Speed Electro spindle options available upto 18000 rpm.
- BT 50 Spindle Available with Higher Motor Power.
- Complete TPM friendly design.

Specifications	VMC 1570	VMC 1580	VMC 1870	VMC 1880
Working Table Size	1700 X 810 mm	1700 X 810 mm	2000 X 810 mm	2000 X 810 mm
Travel (X / Y / Z Axis)	1510 / 710 / 810 mm	1510 / 810 / 810 mm	1810 / 710 / 810 mm	1810 / 810 / 810 mm
Rapid Traverse (X / Y / Z Axis)	20 m/min	20 m/min	20 m/min	20 m/min
Table Load Capacity	2000 kgf	2000 kgf	2500 kgf	2500 kgf
Max. Spindle Speed	8000 rpm	8000 rpm	8000 rpm	8000 rpm
Spindle Taper	BT 40	BT 40	BT 40	BT 40
Spindle Power - Fanuc	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW	11 / 7.5 kW
Spindle Power - Siemens	15.8 / 10.5 kW	15.8 / 10.5 kW	15.8 / 10.5 kW	15.8 / 10.5 kW
Tool Storage Capacity	20 [24, 40]	20 [24, 40]	20 [24, 40]	20 [24, 40]

[] Options



EX Series

Moving Column Vertical Machining Center (3-4-5 Axis)



Model Variants

EXF1280 **EXF1680**

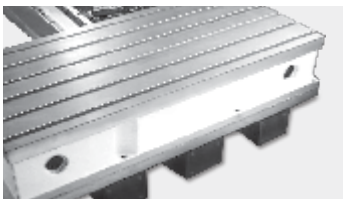
EXF2480

High Performance Machining Centers with great versatility

EX Series of machines have capacity to cover maximum range of jobs within the working envelope to machine work pieces with complex shapes along 3, 4 and 5 Axis from light weight till heavy weight workpieces.



- High speed machining with very high metal removal.
- Moving column structure in X & Y-Axis, with fixed table.
- Graded C.I. structure with a high mechanical performance which maximizes structure rigidity and with optimum harmonic stability during demanding cutting conditions
- Fixed table standard with option of (A) or (C) - Axis rotary table
- Precision class LM (Roller) guideways with rapid traverse rate up to 30 m/min.
- Options of (P) & (N) head for 4th & 5th Axis application.



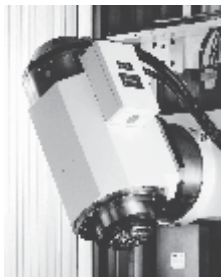
The Fixed Table



TYPE "F" (Fixed Head)



TYPE "N" (2-Position Head Only Horizontal & Vertical)



TYPE "P" (Cont. Servo for 5-Axis) B-Axis : $\pm 100^\circ$

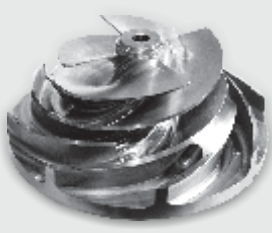
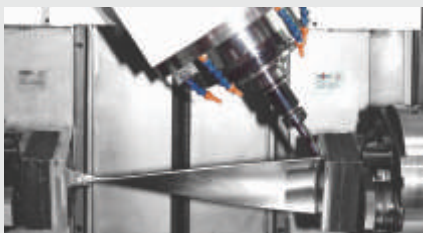


Rotating Table in Table 700 mm x 800 mm

Specifications

	EX-F 1280	EX-F 1680	EX-F 2480
Travels (X / Y / Z Axis)	1200 / 800 / 800 mm	1600 / 800 / 800 mm	2400 / 800 / 800 mm
Rapid Feedrate (X / Y / Z Axis)	30 m/min	30 m/min	30 m/min
Table Size	1600 X 800 mm	2000 X 800 mm	2800 X 800 mm
Max. Load on Table	2500 Kg	3500 Kg	4500 Kg
Spindle Speed	8000 rpm	8000 rpm	8000 rpm
Spindle Taper	BT-40	BT-40	BT-40
Spindle Power - Fanuc	15 / 11 kW	15 / 11 kW	15 / 11 kW
Spindle Power - Siemens	16.5 / 11 kW	16.5 / 11 kW	16.5 / 11 kW
Tool Changer Capacity	20 [36 - 40 - 60]*	20 [36 - 40 - 60]*	20 [36 - 40 - 60]*

[*] Options - No. of tools depends on head type - Different power and rpm options with relative spindle taper and head



4th Axis Rotary Table

NX Series

Double Column Vertical Machining Center (3-Axis)

Model Variants

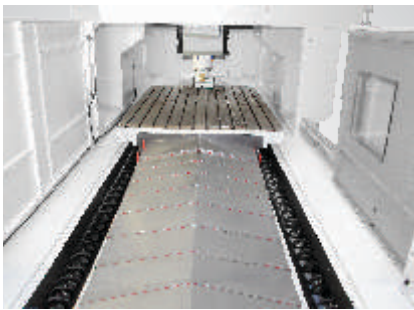
NX2215 **NX3215**
NX3222 **NX4222**

High Performance Double Column Machining Center

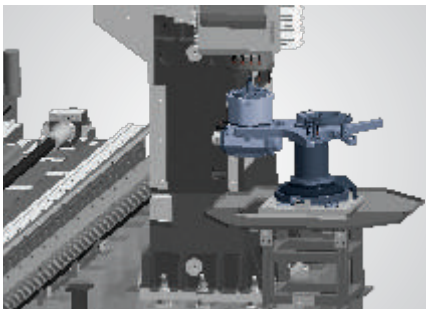
NX Series Heavy Duty Double column vertical machining center are suitable for heavy machining of large part components with wider range of tool lengths to be used in the same setup.



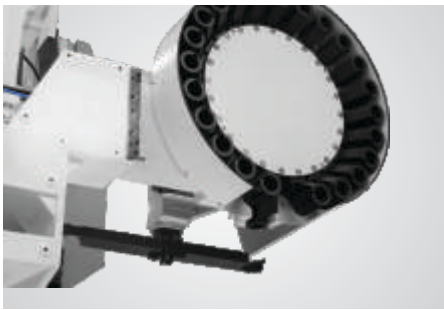
- Ram type Z-Axis movement in headstock for more rigid machining at greater extensions without much interference of Axis elements.
- FEM proven state-of-art design with a wider gap maintained between both the columns enabling it to have larger size components.
- X and Y Axis moves on precise L.M. Guideways (Roller Type) enabling higher rapids and better productivity.
- Wider range of spindle taper and rpm options.



Wide Working / 90° Auto Indexing Head



Head Changer Solution

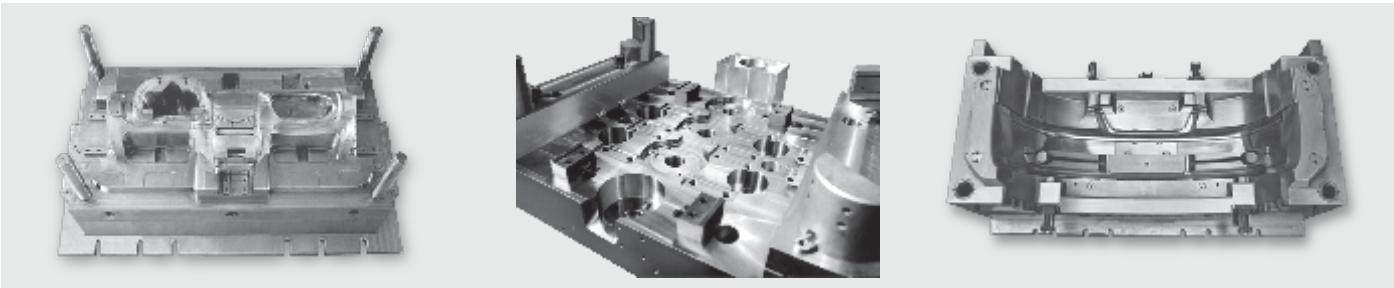


Auto Tool Changer

Specification

	NX 2215	NX 3215	NX 3222	NX 4222
Travels (X / Y / Z Axis)	2200 / 1500 / 800* mm	3200 / 1500 / 800* mm	3200 / 2200 / 800* mm	4200/ 2200 / 800* mm
Rapid Traverse (X / Y / Z Axis)	20 / 20 / 15 m/min	15 / 20 / 15 m/min	15 / 15 / 15 m/min	15 / 15 / 15 m/min
Distance Between Column	1600 mm	1600 mm	2500 mm	2500 mm
Working Table Size	2200 X 1250 mm	3000 X 1250 mm	3000 X 2000 mm	3500 X 2000 mm
Table Load Capacity	6000 kgf	8000 kgf	10000 kgf	10000 kgf
Max. Spindle Speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm
Spindle Taper	BT-50	BT-50	BT-50	BT-50
Spindle Power - Fanuc	22 / 18.5 kW	22 / 18.5 kW	22 / 18.5 kW	22 / 18.5 kW
Spindle Power - Siemens	32.3 / 21.5 kW	32.3 / 21.5 kW	32.3 / 21.5 kW	32.3 / 21.5 kW
Tool Storage Capacity	24 [40 / 60 / 90]	24 [40 / 60 / 90]	24 [40 / 60 / 90]	24 [40 / 60 / 90]

[] Options *1000 mm Z-Axis stroke available



HX Series

Horizontal Machining Center



Model Variants

HX500 HX510 HX600 HX610

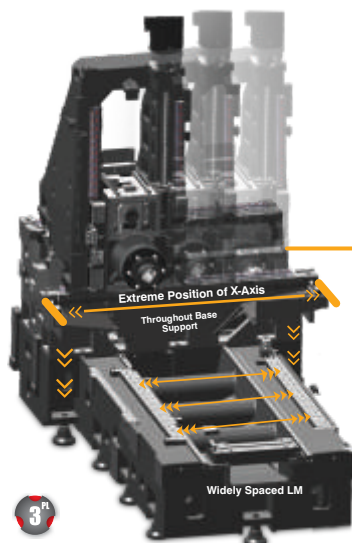
Compact and Versatile

To match the demand of multiple face machining operations in single set-up with high accuracy and precision for heavy components like Gear Box Casing, Engine Head & Cylinder, Valve and Pump Body etc. and machining of components in multiple stacking with higher rigidity and productivity, Jyoti has developed state-of-art HX Series Horizontal Machining Centre Series. Rugged & graded cast iron T-Base structure with higher mechanical performance from roughing to finishing operation.



- TPM & Operator friendly design
- T-Base robust design for even large job envelop cutting at higher parameters
- Optimum spaced LM Guides for load uniformity and geometrical accuracy
- Wide door opening for easy loading/unloading
- APC (180° indexing) and pressurized air spray concept

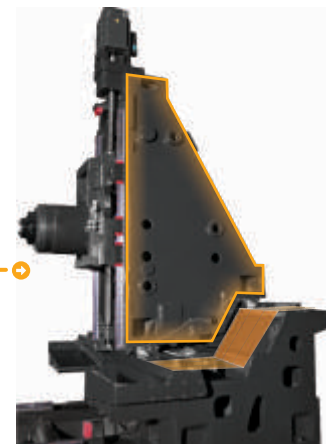
- Effective chip disposal with unique center through structure design
- Heavy duty spindle with high torque gear head option
- Flexibility to interface with Pneumatic + Hydraulic line for complex fixtures
- 5th Axis Rotary Table interfacing
- 40 Tool ATC with 60, 90, 120 tool option



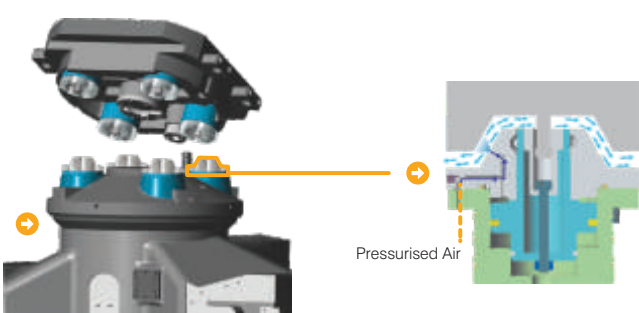
WIDE T-BASE STRUCTURE

STEP-UP STRUCTURE WITH TRIANGULAR COLUMN

HX Series comprises of Step-up base construction for better load distribution and triangular column construction to support X-Axis in extreme position ensuring higher rigidity, with higher cutting parameters.



AUTOMATIC PALLET CHANGER

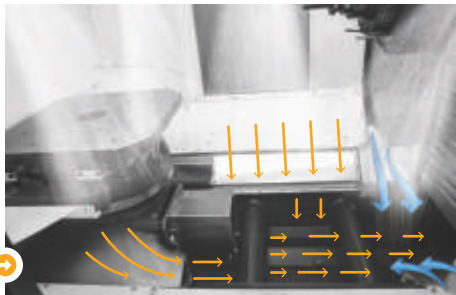


ROTARY TABLE

HX Series consists of 180° rotary type Automatic pallet change During pallet change cycle, strong jets of air are discharged from the taper cones which removes any chips & provides clean surface for location of pallet onto the machine ensuring high repeatability of pallet position.



SHOWER COOLANT SYSTEM



EFFICIENT CHIP FLOW



EASY ACCESSIBILITY FROM TOP SIDE

Specifications

	HX 500	HX 510	HX 600	HX 610
Twin Pallet Changer (Pallet Size)	500 x 500 mm		630 x 630 mm	
Max. Workpiece Size (Ø x Height)	Ø 650 x 750 mm		Ø 800 x 950 mm	
Maximum Weight on Pallet	500 kg		800 kg	
Travels (X / Y / Z Axis)	700 / 600 / 600 mm	800 / 600 / 600 mm	900 / 730/ 750 mm	1200 / 730 / 750 mm
Rapid Traverse (X / Y / Z Axis)	30 m/min		30 m/min	
Type of Table	1 ^o Indexing Rotary Table		1 ^o Indexing Rotary Table	
Spindle Speed (Belt Driven)	6000 rpm (BT-50)		6000 rpm (BT-50)	
Spindle Power-Fanuc	15 / 11 kW		22 / 18.5 kW	
Spindle Power-Siemens	18 / 12 kW		27.8 / 18.5 kW	
Tool Storage Capacity	40		40	

HSX Series

High Dynamic Horizontal Machining Center



Model Variants

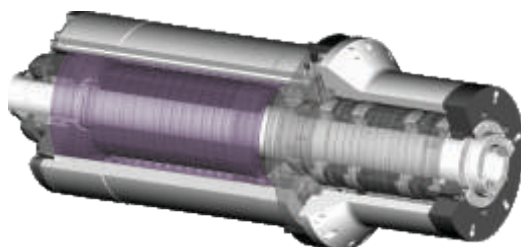
HSX540 HSX650 HSX860
HSX1080 HSX1210

Compact and Versatile

- A revolutionary concept of High Dynamic High Precision HSX Series are suitable for a wide range of applications right from heavy duty cutting to high speed machining with better positional accuracy metal removal rate and reduce ideal machining time delivering quick response to commands.

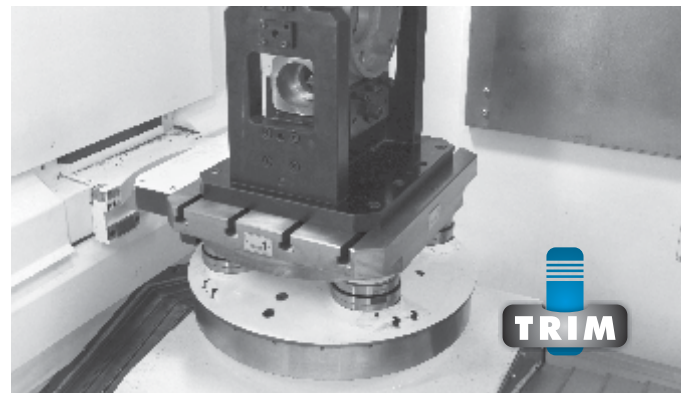


- Higher table load carrying capacity with wider working area.
- Efficient chip removal and coolant system.
- Operator-friendly panel.
- Thermally stable graded cast-iron body with widely spaced, heavily ribbed base to damp vibration and enable higher cutting parameters.
- Moving Column with Step-Up structure for accuracy, higher dynamic & vibration dampening.
- Precision class (Roller Type) LM Guideways High Rapid traverse rate upto 50 m/min total non cutting time.



Electro Spindle

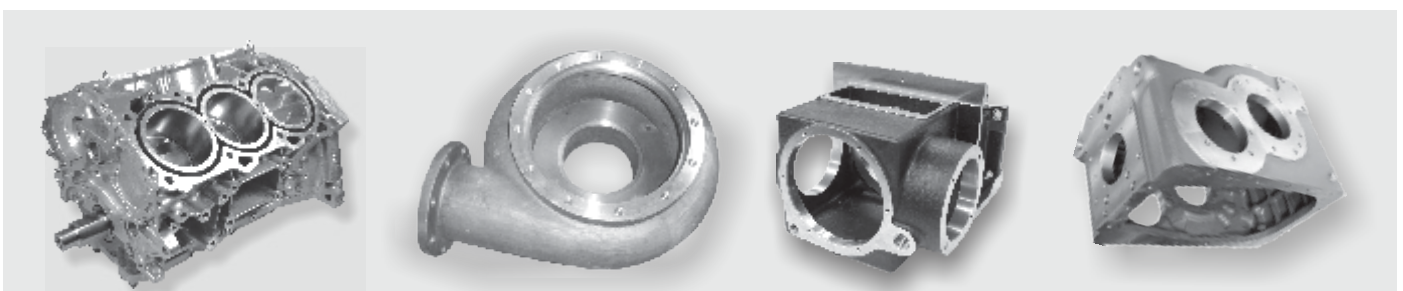
Electro Spindle having special temperature controlled chilling with better ramp-up and ramp -down for optimum speed power & torque



Rotary Table

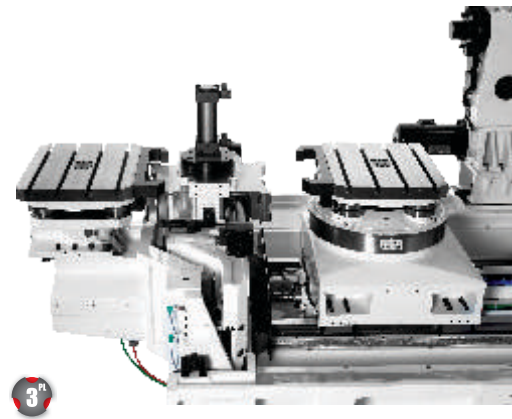
ROTARY TABLE

B-Axis with 1° indexing rotary system. Option of Rotary Integrated motor table (TRIM). Available with rotating speed of 80 rpm for HSX 540, 60 rpm for HSX 650, and 50 rpm for HSX 860 / HSX 1080 / HSX 1210 for better cutting parameters, accuracy and overall life. TRIM enables cutting of large work-piece in single cut, offering precise positioning mechanism for multiple drilling and tapping.



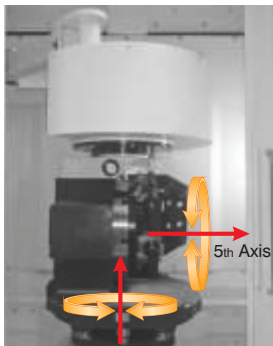
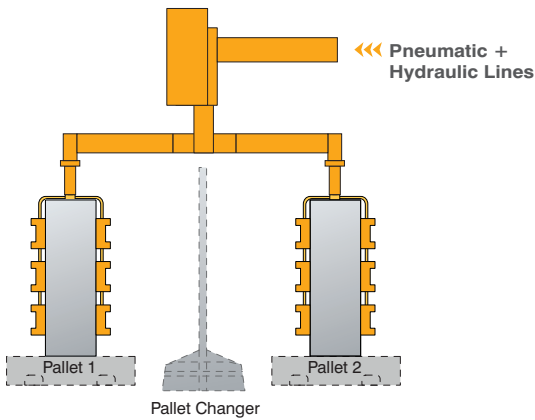
AUTO PALLET CHANGER

180° indexing hydraulic actuated APC for faster and accrate indexing multiple pallet changer options such as 6 pallet system or automated line as per requirement.



Easy Accessibility at work

ON-LINE FIXTURE INTERFACE (HYDRAULIC + PNEUMATIC)



- Various Combination of Pneumatic & Hydraulic ports for online fixture
- Air-Seat Check for Job Clamping Confirmation
- 5th Axis Rotary Table Interfacing



MP PRO (6-Pallet System Option)

Specifications	HSX 540	HSX 650	HSX 860	HSX 1080	HSX 1210
Twin Pallet Changer (Pallet Size)	500 x 400 mm	630 x 500 mm	800 x 630 mm	1000 x 800 mm	1200 x 1000 mm
Max. Workpiece Size (Ø x Height)	Ø650 x 750 mm	Ø800 x 950 mm	Ø1000 x 1100 mm	Ø1200 x 1250 mm	Ø1600 x 1250 mm
Maximum Weight on Pallet	400 kg	700 kg	1100 kg	1500 kg	2500 kg
Travels (X / Y / Z Axis)	630/600/600 mm	800/730/750 mm	1100/900/1000 mm	1400/1000/1000 mm	1700/1000/1200 mm
Rapid Traverse (X / Y / Z Axis)	50 m/min	50 m/min	40 m/min	20 m/min	20 m/min
Type of Table	1° Indexing Rotary Table [Direct Torque Motor - TRIM]				
Spindle Speed (Electro Spindle)	12000 rpm (BT-40)	10000 rpm (BT-50)		10000 rpm (BT-50)	
Spindle Power-Siemens (Fanuc)	26 kW (18.5/22 kW)	41 kW		41 kW	
Tool Storage Capacity	40 [60 / 90 / 120]	40 [60 / 90 / 120]		40 [60 / 90 / 120]	

[] Options



5-Axis Machining Center

- U-Mill Series
- MU Tech

**5-Axis High Performance
Machining Center**

- MX 4
- KX Five Series

5-Axis Large Machining Center

- KX Large Series
- KXG Series

U-Mill Series

Vertical Machining Center (5-Axis)

Model Variants

U-MILL6

Compact and Versatile

- These range of 5-Axis machining centers are designed with compact footprint to job machining capability, enhanced rigidity for high performance and quality machining. Ideally suited for complex 5-axis high precision mechanical parts, aerospace, automotive, rail, energy applications with 3D typical contours.



Specification

U-Mill6

Travels (X / Y / Z Axis) (Linear)	700 / 740 / 550 mm
Rapid Feed (X / Y / Z Axis)	40 / 40 / 40 m/min
Axis Acceleration (X / Y / Z Axis)	6 / 4 / 6 m/s ²
Table Swiveling A-Axis	- 20° / + 110°
Table Rotation C-Axis	360° continuous
Rapid Feed A - C Axis	20 - 35 rpm
Table Size	Ø630 mm
Spindle Speed	10000 rpm
Spindle Taper	SK 40
Spindle Power (S6 / S1) - Torque	26.2 / 12 kW - 250 / 115 Nm
Tool Changer Capacity	30

Accuracies (As Per VDI / DGQ 3441)

Positioning Uncertainty: P	Linear : 0.015 mm
Repeatability (Ps Medium)	Linear : 0.005 mm

Machine Capacities with Siemens Controller.



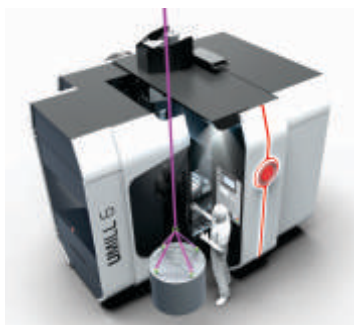
- Capable of HSM (High Speed Machining)
- 5-Axis machining of workpiece upto 600 kg
- Portal structure + Swiveling rotary table on fixed cradle with high geometric stability
- Modular design for configuration flexibility
- Roller Type (LM) Guideways for speed and stability
- Powerful direct coupled spindle with high torque motor for high MRR
- Long nose spindle for excellent approach to 5-Face machining
- Operator & TPM friendly design
- Effective Chip removal



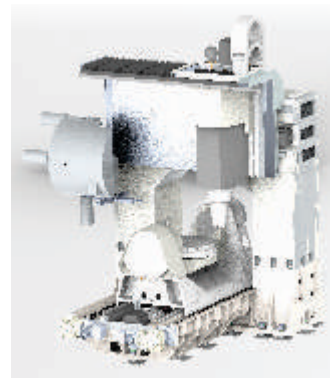
Rotary Table



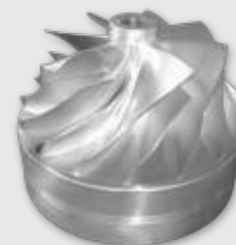
Direct Inline Spindle



Easy Loading from Top



Structure



MU Tech Series

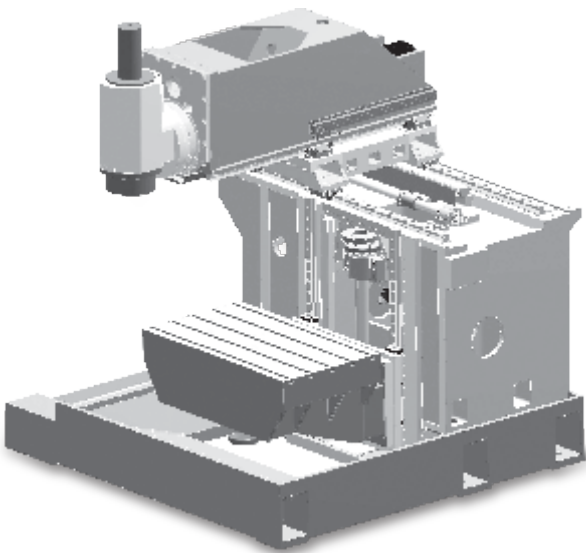
Vertical Machining Center (5-Axis)

MU Tech6

Compact and Versatile

MU TECH is a versatile milling center bringing up revolution in 5-Axis machining technology.

- Bigger working envelop with smaller footspace requirement.
- Symmetric ribbed architecture ensuring machining stability.
- Continuous head rotation by a play-free system for possible simultaneous 5-Axis machining applications.
- +30° / -120° (B-Axis) covers both vertical & horizontal operations.
- Geometric capacities, clamping surface and power for heavy, bulky milling jobs to complex small size workpieces with precision.



Fixed table with integrated rotating table - C axis

Fixed Table	1000 x 600 mm
Rotating Table	Ø 600 mm
Max. Workpiece	Ø 800 x 550 mm
Max. Admissible Load	500 kg



Specification

MU Tech 6

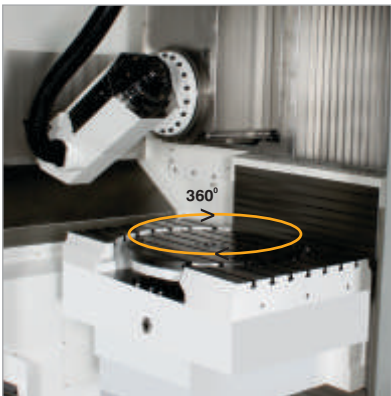
Travels (X / Y / Z Axis)	750 / 560 / 560 mm
Rapid Feedrate (X / Y / Z Axis)	30 m/min
Table Size	1000 X 600 mm
Rotating Head (B axis)	+30° / -120°
Spindle Axis / Saddle Plane	
Rotating Speed (B axis)	35 rpm
Spindle Taper	SK 40
Spindle Speed	12000 rpm
Spindle Power-Torque (S6 - 40 % / S1)	23.6 kW- 110 / 84 Nm
Electrospindle	
Tool Changer Capacity	24 [40 - 60]

Accuracies (As Per VDI / DGQ 3441)

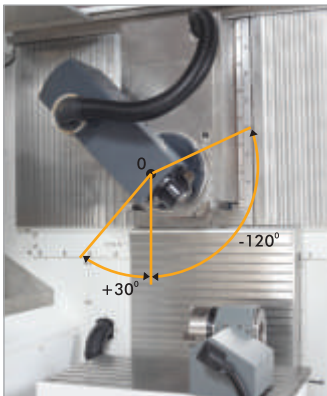
Positioning Uncertainty: P (X-Y-Z Axis)	0.010 mm
Repeatability: Ps Medium (X-Y-Z Axis)	0.005 mm

Machine Capacities with Siemens Controller.

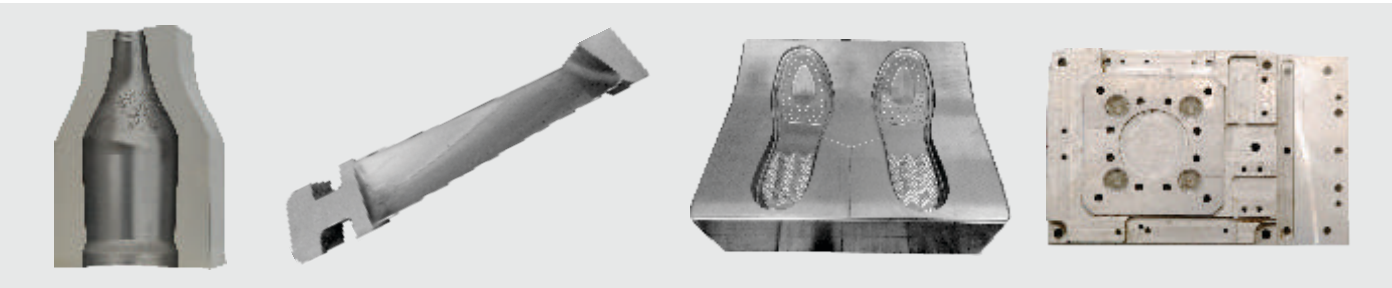
[] Options



Rotating Table (C-Axis)



Rotating Head (B-Axis)



MX4

High Performance Machining Center (5-Axis Linear)



Compact Foot Print

Specification

MX4

Travels (X / Y / Z Axis) (Linear)	750 / 700 / 500 mm
Rapid Feedrate (X / Y / Z Axis)	60 / 120 / 120 m/min
Axis Acceleration (X / Y / Z Axis)	6 / 10 / 10 m/s ²
Table Swiveling A-Axis	- 45° / 180°
Table Rotation C-Axis	360° continuous
Rapid Feedrate A - C Axis (Rotation)	100 rpm
Pallet Size	Ø440 mm
Spindle Speed	24000 rpm
Spindle Taper	HSK-63 A
Spindle Power (S6 / S1) - Torque	25 / 20 kW - 40 / 32 Nm
Tool Changer Capacity	36

Accuracies (As Per VDI / DGQ 3441)

Positioning Uncertainty: P	Linear : 0.004 mm Rotating : 7.2 sec
Repeatability (Ps Medium)	Linear : 0.002 mm Rotating : 3.6 sec

Machine Capacities with Siemens Controller.

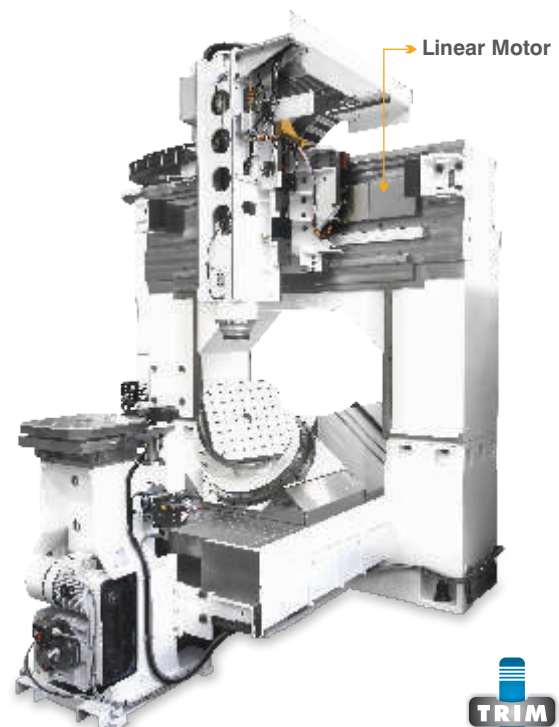
BRIDGE TYPE MACHINE WITH SWIVELLING TABLE

- The "linear motor" technology for Cartesian Axis. Rapid Traverse (Y & Z = **120 m/min**)
- Swiveling Table (A-Axis : **-45° / +180°** C-Axis : **360°**)

MX4

Turbulent Speed Delivered with Perfection

Revolutionary New Concept High Performance 5-Axis Bridge Type Machining Centers for machining of complex and critical components with maximum productivity.



- Capable of HSM (High Speed Machining)
- 5 Axis machining for work piece up to 250 kg
- Hard material machining in a minimal time
- Very high accuracy in contouring and profiles
- Complete automation of the machine
- A & C Axis for horizontal, vertical and intermediate positions
- Machine with Bi-Pallet changer option



KX Five Series

Bridge Type Vertical Machining Center (5-Axis)



Model Variants

K3X8^{Five}

K2X10^{Five}

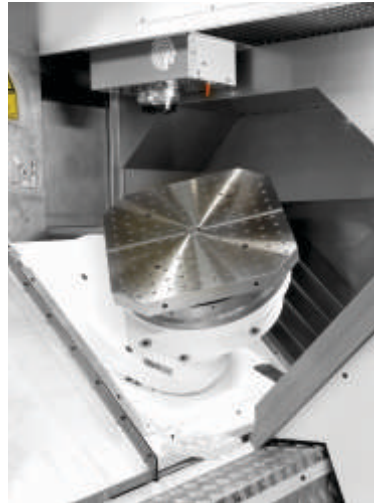
5-Axis Machining Marvel

A range of very high performance 5-Axis bridge type machining center for machining of complex and critical components with very high surface finish for complex profiles in one setup clamping.



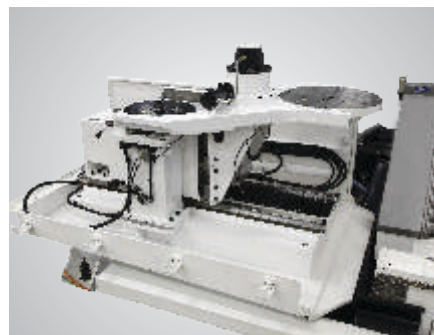
- Capable of HSM (High Speed Machining)
- Fixed bridge type architecture with Step-Up base
- A & C axis TRIM table with high torque capacity
- Direct measurement on all 5 Axis for very high accuracy in counting & profile
- 5 Axis powerful algorithms in torque, speed, acceleration & jerk for remarkable reduction in cycletime & cost
- Electro spindle with 24000 rpm (HSK 63 A taper)
- 5-Axis machining for work pieces up to 500 kg (750 kg with reduced feeds)
- Very large accessibility to the table and the work piece from top and side





20° Negative Angle (K3X 8 Five)

Pallet changer option to zero down on component loading/unloading and setup time improving productivity.



Palletized Table (Option)



Specification

	K3X 8 FIVE	K2X 10 FIVE
Travels (X / Y / Z Axis)	780 / 700 / 500 mm	900 / 900 / 500 mm
Rapid Feedrate (X / Y / Z Axis)	50 m/min	50 m/min
Travel A (Rotary Axis)	- 30° / + 180° (20° Negative Angle)	- 45° / + 180°
Travel C (Rotary Axis)	360°	360°
Table Size	Ø 500 mm	Ø 630 mm
Spindle Speed	24000 rpm [16000 - 42000]	24000 rpm [16000 - 42000]
Spindle Taper	HSK-63A	HSK-63A
Spindle Power - Torque (S6-40% / S1)	25 / 20 kW - 40 / 32 Nm	25 / 20 kW - 40 / 32 Nm
Tool Changer Capacity [Options]	20 [30 - 40 - 60 - 100]	20 [30 - 40 - 60 - 100]

Accuracies (As Per VDI / DGQ 3441)

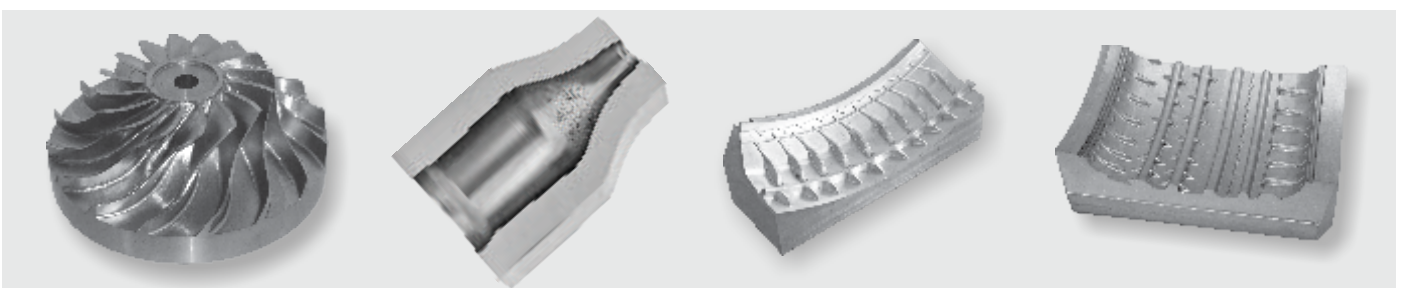
Positioning Uncertainty : P (X-Y-Z / A-C)	0.004 mm / 7.2 sec	0.004 mm / 7.2 sec
Repeatability : Ps Medium (X-Y-Z / A-C)	0.002 mm / 3.6 sec	0.002 mm / 3.6 sec

Machine Capacities with Siemens Controller.

[] Options



Easy Maintenance



KX Large Series

High Speed Double Column Machining Center (5-Axis)



Model Variants

KX50 **KX100** **KX200** **KX300**

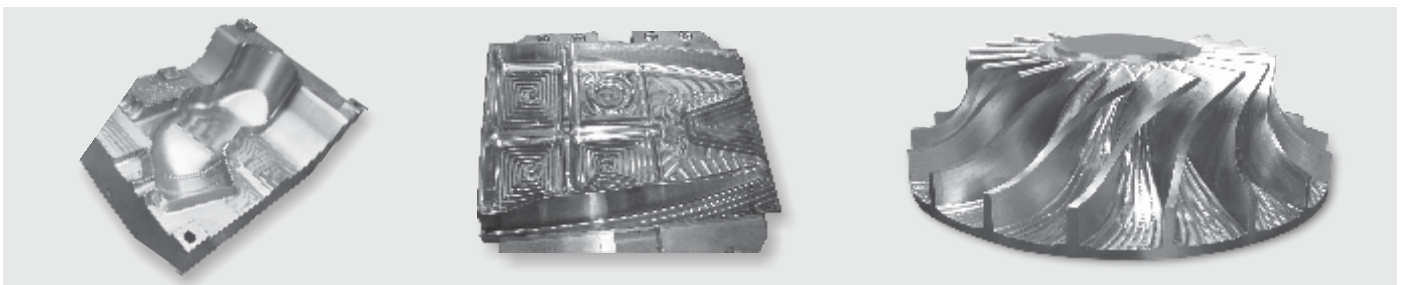
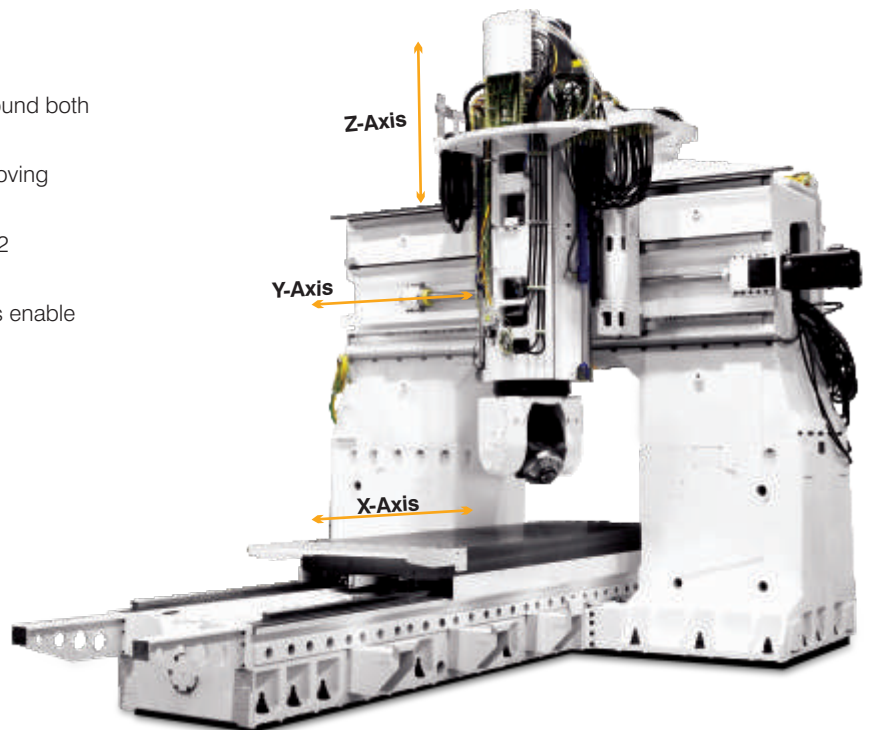
**High Performance Double Column Machining
Center for machining of complex parts**

- Capable of HSM (High Speed Machining) with rigidity in structural elements
- Portal architecture equipped with forked milling head with (C & B) Axis
- 5-Axis powerful algorithm in torque, speed, acceleration & jerk leading to remarkable reduction in cycletime & cost
- High accuracy performance in positioning and in 3D contouring
- Excellent for very precise engineering applications of aeronautic, toolroom, Die Mould...



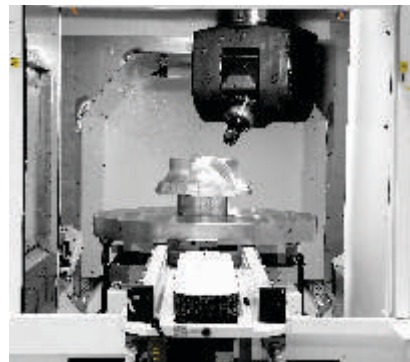
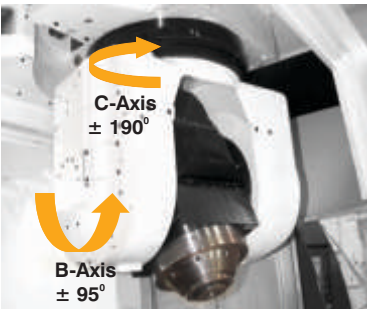
LINEAR AXIS

- X axis is as a moving table with wider spacing around both columns
- Y axis is mounted on a traverse supporting the moving saddle.
- Z axis equipped with orientable milling head with 2 orthogonal rotation axes and an electro spindle.
- Linear guideways with recirculating roller bearings enable feedrates up to 40 m/mn



ROTARY AXIS

For KX Large Series B & C Axis are equipped with angular encoder directly mounted and offer high positioning accuracy. Both the axis have direct driven high torque motors designed specially by Jyoti Huron to synchronize with all linear axis movements for overall excellent results.



Specifications

	KX 50 M	KX 50 L	KX 100	KX 200	KX 300
Travels (X / Y / Z Axis)	2000 / 1700 / 900 mm	3000 / 1700 / 900 mm	2300 / 2300 / 1000 mm	3300 / 2300 / 1000 mm	5000 / 3100 / 1500 mm
Rapid Feedrate (X / Y / Z Axis)	40 / 40 / 40 m/min	40 / 40 / 40 m/min	40 / 40 / 40 m/min	25 / 40 / 40 m/min	20 / 20 / 20 m/min
Tilting Head (B / C) Axis	±95° / ±190°	±95° / ±190°	±95° / ±190°	±95° / ±190°	±95° / ±190°
Table Size	2200 x 1250 mm	3300 x 1250 mm	2500 x 1250 mm	3500 x 1250 mm	5200 x 2000 mm
Max. Rotation Speed (B - C)	60 rpm	60 rpm	30 rpm	30 rpm	30 rpm
Spindle Speed	20000 rpm [10000]	20000 rpm [10000]	18000 rpm [12000]	18000 rpm [12000]	18000 rpm [12000]
Spindle Taper	HSK-63A	HSK-63A	HSK-63A [HSK-100A]	HSK-63A [HSK-100A]	HSK-63A [HSK-100A]
Spindle Power (S6-40% / S1)	75 / 60 kW	75 / 60 kW	30 / 20 kW	30 / 20 kW	30 / 20 kW
Spindle Torque (S6-40% / S1)	75 / 60 Nm	75 / 60 Nm	240 / 160 Nm	240 / 160 Nm	240 / 160 Nm
Tool Changer Capacity	30 [40 / 60 / 100]	30 [40 / 60 / 100]	40 [60 / 100]	40 [60 / 100]	40 [60 / 100]
Accuracies (as per VDI/DGQ 3441)					
Positioning Uncertainty: P (X-Y-Z / B-C)	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.010 mm Rotating : 10 sec
Repeatability: Ps Medium (X-Y-Z / B-C)	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.005 mm Rotating : 5 sec

Machine Capacities with Siemens Controller. [] Options

KXG Series

Gantry Type Machining Center with Linear Motor (5-Axis)

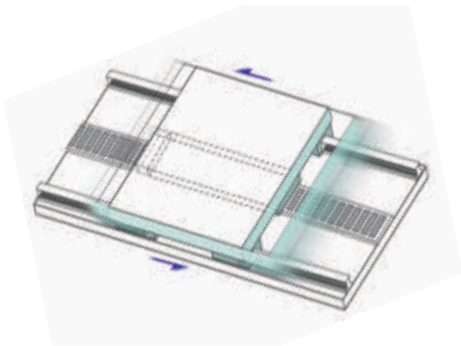
Model Variants

KXG45-14 KXG45-23

KXG60-23 KXG90-23

**Linear Motor Gantry Machining Center
for Very Highspeed 5-Axis Machining**

5-Axis Big Size Gantry Type Vertical Machining Center with Linear Motor suitable for big sized complex workpieces with requirement of high precision.



- Capable of HSM (High Speed Machining) with high MRR
- A very high static and dynamic rigidity of structures.
- Head equipped with Integrated torque motor with high rate of rotational acceleration
- Capability for 5-Axis machining for work piece up to 52000 kg
- High dynamics Linear Motors in X-Axis lateral walls, cooled ballscrews, coupled motors and acceleration higher than 1g with 5-Axis.
- High precision with direct measure for high accuracy in contour profiles

Linear Motor in X-Axis Supported by Two Lateral Walls

Dual linear motors are used for maximum dynamics and accuracy for high quality and faster production rates. Acceleration rates up to 18 m/s². They are adequately protected from dust and temperature maintained with separate chiller unit.

Specification

	KXG 45-14	KXG 45-23	KXG 60-23
Travels (X / Y / Z Axis)	4500 / 1400 / 800 mm	4500 / 2300 / 800 mm	6000 / 2300 / 800 mm
Rapid Feedrate (X / Y / Z Axis)	60 / 60 / 45 m/min	60 / 60 / 45 m/min	60 / 60 / 45 m/min
Axis Acceleration (X / Y / Z Axis)	4 / 4.5 / 6 m/s ²	4 / 4.5 / 6 m/s ²	4 / 4.5 / 6 m/s ²
Travels B - C Axis (2 Axis continuous swivelling head)	B-Axis: ± 95° C-Axis: ± 190°	B-Axis: ± 95° C-Axis: ± 190°	B-Axis: ± 95° C-Axis: ± 190°
Max. Rotation Speed (B, C)	60 rpm	60 rpm	60 rpm
Axis Acceleration (B, C)	12 rad/s ²	12 rad/s ²	12 rad/s ²
Table Area	4700 X 1400 mm	4700 X 2500 mm	6200 X 2500 mm
Max. Load on Table	18000 Kg	25000 Kg	30000 kg
Spindle Speeds	20000 rpm [10000 rpm]	20000 rpm [10000 rpm]	20000 rpm [10000 rpm]
Spindle Taper	HSK-63A	HSK-63A	HSK-63A
Spindle Power Torque (S6-40% / S1)	75 / 60 kW - 75 / 60 Nm	75 / 60 kW - 75 / 60 Nm	75 / 60 kW - 75 / 60 Nm
Tool Changer Capacity	40 [60 / 100]	40 [60 / 100]	40 [60 / 100]

Accuracies (As per VDI DGQ 3441)

Positioning Uncertainty: P (X - Y - Z / B - C)	Linear : 0.01 mm Rotating : 10 sec	Linear : 0.01 mm Rotating : 10 sec	Linear : 0.01 mm Rotating : 10 sec
Repeatability: Ps (X - Y - Z / B - C)	Linear : 0.005 Rotating : 5 sec	Linear : 0.005 Rotating : 5 sec	Linear : 0.005 Rotating : 5 sec

Machine Capacities with Siemens Controller.

[] Options

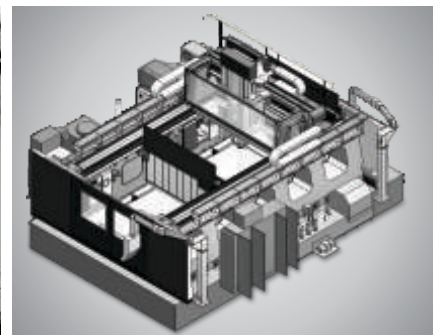


Structure integrating large glasses
allowing an easy control of machining



Twin / Pendulum Machine Option

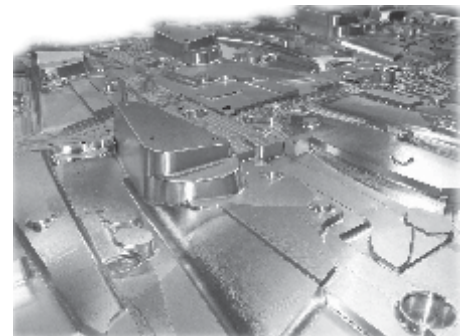
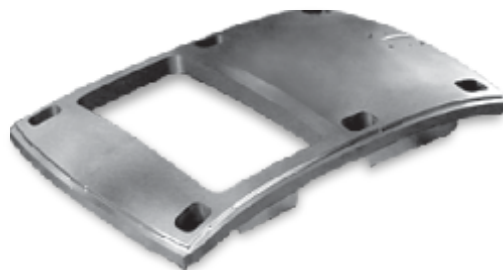
- Special modified design for those high end workshop applications that require single machine yet with capability to machine 2 different high precision bigger 5-Axis components
- Partition for clamping 2 different components separately.
- Dual control system for each component.



Powerful spindle

B-axis : $\pm 95^\circ$

C-axis : $\pm 190^\circ$



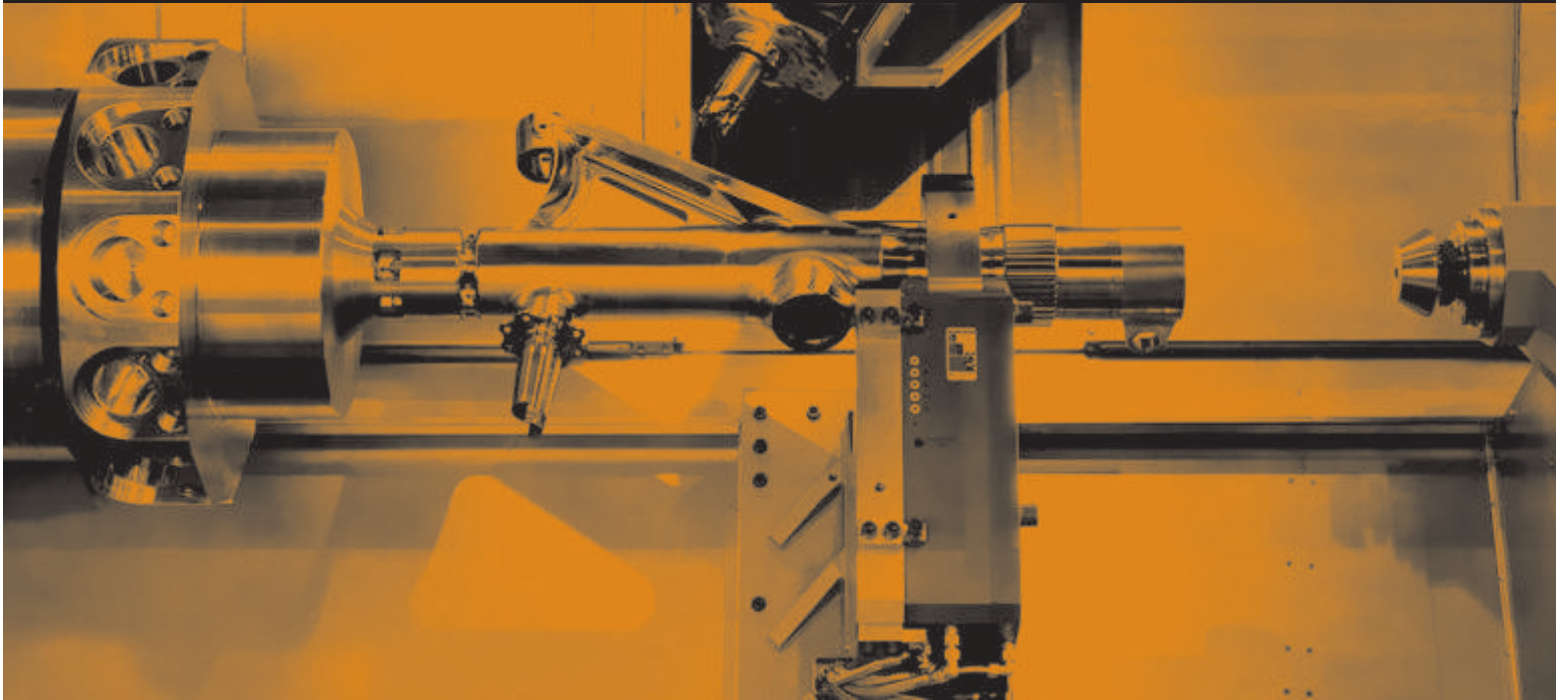
KXG 90-23

9000 / 2300 / 800 mm
60 / 60 / 45 m/min
4 / 4.5 / 6 m/s ²
B-Axis: $\pm 95^\circ$
C-Axis: $\pm 190^\circ$
60 rpm
12 rad/s ²
9000 X 2500 mm
52000 Kg
20000 rpm [10000 rpm]
HSK-63A
75 / 60 kW - 75 / 60 Nm
40 [60 / 100]

Linear : 0.01 mm
Rotating : 10 sec
Linear : 0.005
Rotating : 5 sec



Multi-Tasking Machines



Turn-Mill Series

TMX Series
MTX Series

Mill-Turn Series

MX Series

TMX Series

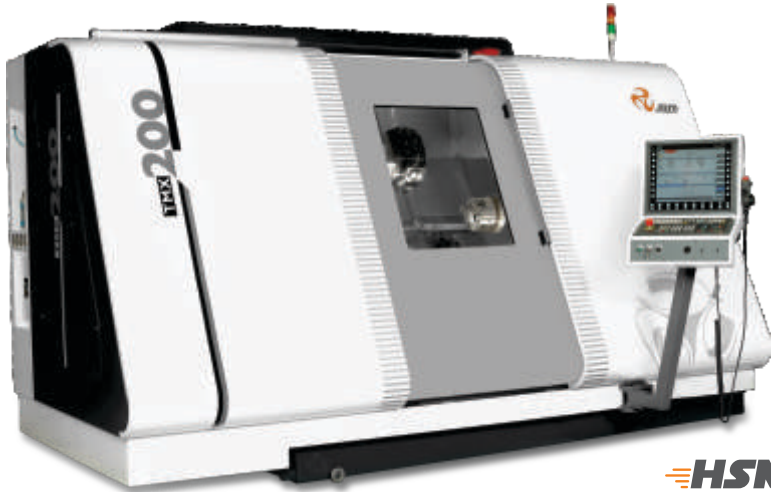
Twin Spindle Twin Turret Turn-Mill Center

Model Variants

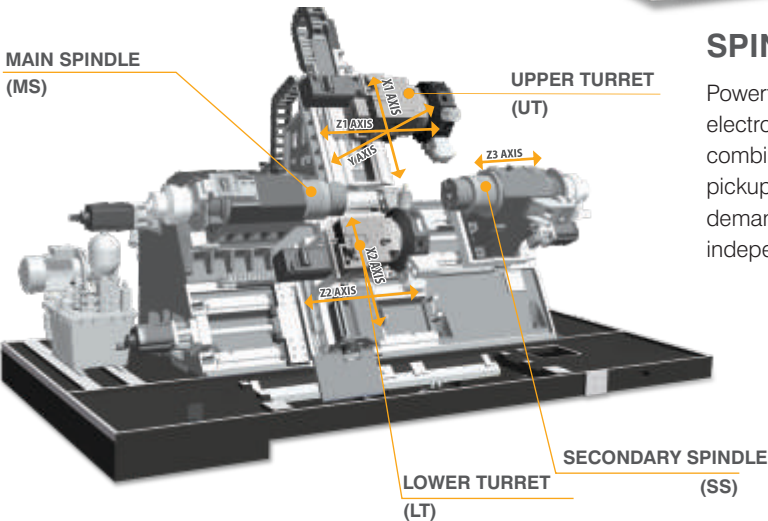
TMX200

Twin Spindle Twin Turret Turn-Mill Center

TMX Series, milling/turning machine with various possibilities of configuration with spindles and turrets has been developed to equip the production facilities.



HSM



SPINDLE

Powerful main electrospindle which is stationary. Secondary electrospindle is available that can slide on linear Z3-Axis in combination to main spindle for second set-up workpiece pickup and perform machining. In case of different application demand, both spindles can also simultaneously and independently work in combination to either turrets.



LINEAR AXIS (TURRETS)

Standard live-tool servo Upper Turret with (X1/Y/Z1 Axis) for complex application requirements in turning and milling & Secondary Turret available with (X2 / Z2 Axis).

Flexible Simultaneous Machining Combinations

- (MS+UT) & (SS+LT) • (MS+UT+LT) & (SS+UT+LT)
- (MS+LT) & (SS+UT) • (MS+SS+UT+LT)
- Multitasking possible with combination of two spindle and two turrets with only one workpiece clamping thanks to live tool, C & Y Axis
- Significant reduction in cycle time
- Ergonomy and easy accessibility for setting up of tools and inserts
- Very efficient removal of chips
- Possibility to add optional equipments as bar feeder, finished workpiece conveyor to achieve maximum profitability

Specifications

TMX 200

Standard Turning Dia.	Ø250 mm
Max. Turning Length	725 mm
Chuck Size	210 mm
Travel (X1/Y/Z1 Axis)	300 / ±40 / 750 mm
Travel (X2/Z2/Z3 Axis)	180 / 750 / 770
Rapid Feed (X1/Y/Z1 Axis)	25 / 15 / 30 m/min
Rapid Feed (X2/Z2/Z3 Axis)	25 / 30 / 30 m/min
Spindle Power (Electrospindle) (Main & Secondary Spindle)	27 / 21 kW (A ₂ 6)
Spindle Speed Range	50 - 4000 rpm
Upper & Lower Turret	12 -St. Live Tool Turret

Machine Capacities with Siemens Controller.



MTX Series

Multi-Tasking Machine



MAIN & SUB ELECTROSPINDLE

- Both spindle have C-Axis monitoring with braking system for milling operations
- High Power/Torque spindle with better provision of head dissipation
- Z-Axis in Subspindle to collect job from main spindle for 2nd set-up machining
- For long jobs, both main and subspindle can work in synchronization for various typical turning and milling operations
- Tailstock is available instead of sub spindle

Specifications

MTX 300

Max. Turning Diameter (with Milling Spindle)	520	-
Distance Between Center Length*	2300	
	Main Spindle	Sub Spindle
Spindle Power	35kW (A28)	35 kW (A28)
Spindle Speed	4000 rpm	4000 rpm
Travel (Z3 Axis)		2000 mm
Rapid Feed (Z3 Axis)		30 m/min
Tail Stock Travel (Taper)	2000 mm (MT 5)	

* Depends on Work holding device, Tooling & Workpiece

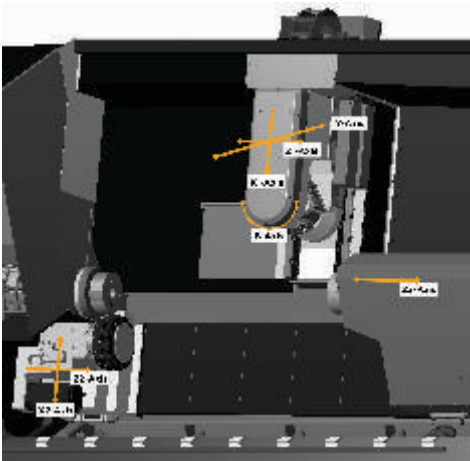
Model Variants

MTX300

The Multi-Tasking Machine

This series of state-of-art designed machine from Jyoti, caters to special needs of those complex components, demanding both 5-Axis complex precise milling + precise 4-Axis turnmill operations in single machine with very high accuracy output in 3D contour profile.

Multitasking with uninterrupted & unmanned machining of typical applications demanding close tolerance machining for industries like aerospace, automotive, mechanical, power, Oil & Gas and other.

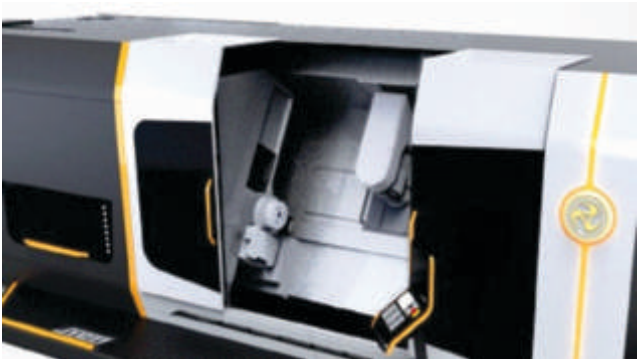


Axis Nomenclature

LOWER LIVE TOOL TURNMILL TURRET

- VDI 50 Turret for better rigidity against cutting force and higher boring capacity
- Flexible lower slide with option of steady or turret

Lower Turret	12 St. Live Tool
Max. Live Tool Speed / Power	3000 rpm (8.8 kW)
Travel (X2 / Z2 Axis)	230 / 2000 mm
Rapid Feed (X2 / Z2 Axis)	26 / 40 m / min



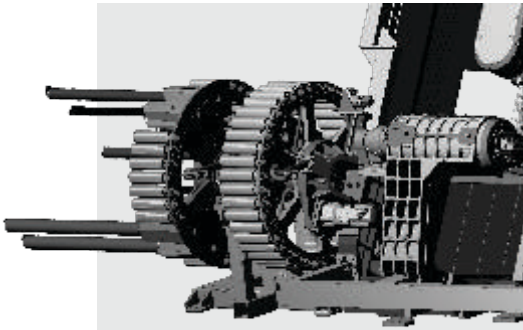
- 6-sided complete machining and turning of complex workpieces in one-setup part clamping.
- No more multiple set-up time & typical clamping systems for worth complex jobs



AUTOMATIC TOOL CHANGER

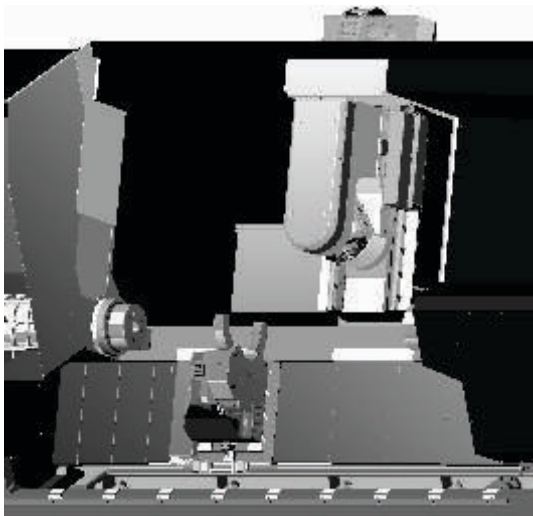
- Higher capacity tool changer provided to support variety of operations.
- 1000 mm long tool for boring having weight 90 kg.
- Option of 80, 120 tool changer
- Tool change in any Z axis position.

Automatic Tool Changer	Main ATC	Long Tool ATC
Tool Storage Capacity	40	6
Maximum Tool Length	500 mm	1000 mm
Maximum Tool Weight	15 kg	90 kg



Automatic Tool Changer

B-AXIS MILLING + TURNING ELECTROSPINDLE



Milling Spindle

- 5-Axis capability for complex profile machining working with C-Axis
- Off-center machining with bigger Y axis travel: ± 150 mm
- Hydraulic locking for milling spindle for turning operations
- Effectively can hold & can do boring uptill 1200 mm long boring bar
- High Power/Torque spindle with HSK taper to reach intricate machining areas
- Applications : 5-Axis Milling, Drilling, Boring, Cam profiling, B-Axis Turning, Camshaft turning, Grinding, Gear hobbing, Shaping, Off Center angular machining.

Spindle Power (S6 / S1)	26 kW
Spindle Speed (Taper)	6000 rpm (HSK 63A)
Spindle Swiveling Range (B Axis)	$\pm 110^{\circ}$
Travel (X1 / Y / Z1 Axis)	600 / ± 150 / 2150 mm
Rapid Feed (X1 / Y / Z1 Axis)	40 / 40 / 40 m / min

- Highly reliable and thermally stable graded CI structure delivering highest part accuracy in multi-axis machining with precision
 - Widely spaced guideways with high rapid traverse speed upto 40 m/min
 - High precision positioning by glass scale
- Optimal use of working area delivering productivity with reduced production time maintaining close tolerance levels
 - Special algorithm and better acceleration for better dynamics in 5 axis cutting
 - Efficient chip disposal from complete machine
 - TPM and Operator friendly



MX Series

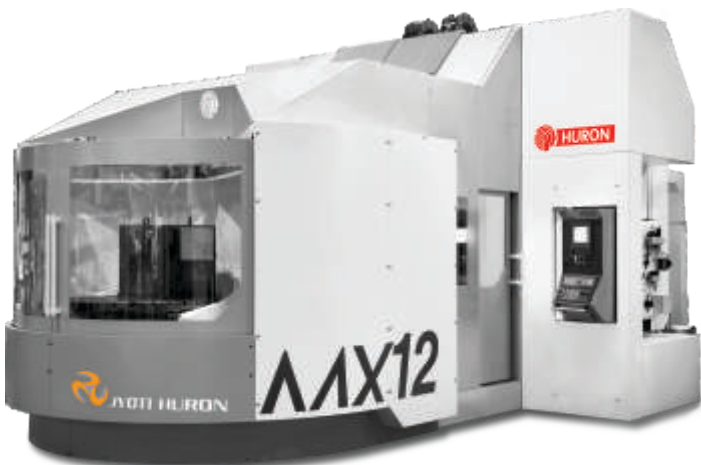
Mill-Turn Series (5-Axis)

Model Variants

MX8 **MX10** **MX12**

Solution for Large Complex Workpieces

MX Series Machines are multifunction machining center having high flexibility enabling machining operations in 5-axis and on 5 sides, in one setup part clamping, from roughing to finishing, as well as turning operations.



HSM



**POWERFUL, RAPID, ACCURATE
MILLING [M] - MILL TURN [MT] CENTERS**

- 5-Axis machining for work piece up to 4000 kg
- Hard material machining in a minimal time
- Very high accuracy in contouring and profiles for requirement such as of tool room
- Large table accessibility with tilting operator panel

Head and Spindle

- Head equipped with integrated high torque motor spindle for high MRR (material removal rate)
- Head on a 45° plane allowing tilting from - 45° to +180°
- Spindle vibration monitoring for high harmonic stability
- Very high accuracy & surface finish in 3D surfaces
- High rapid 40 m/min + Special tool change logic

Specification

	MX 8 [M]	MX 8 [MT]	MX 10 [M]	MX 10 [MT]	MX 12 [M]	MX 12 [MT]
Travels (X / Y / Z Axis)	1160 / 1000 / 900 mm		1200 / 1200 / 1000 mm		1200 / 1600 / 1000 mm	
Rapid Feedrate (X / Y / Z Axis)	40 / 40 / 40 m/min		40 / 40 / 40 m/min		40 / 40 / 40 m/min	
Axis Acceleration (Linear Axis)	4 m/s ²		4 m/s ²		4 m/s ²	
Tool Changer Capacity	60	48	48		48	
Table Rotation C-Axis	360°		360°		360°	
Pallet Size	1000 X 800 mm	Ø 800 mm	1000 X 800 mm	Ø 1000 mm	Ø1600 X 1250 mm	Ø 1400 mm
Admissible Load	2000 kg	2000 kg	2000 kg	2000 kg	4000 kg	3000 kg
Table Rotation Speed	50 rpm	500 rpm	50 rpm	500 rpm	50 rpm	250 rpm
Spindle Speed	18000 rpm	10000 rpm			10000 rpm	
Spindle Taper	HSK-63A	HSK-100A			HSK-100A	
Spindle Power-Torque (S6-40% / S1)	30/20 kW-240/160 Nm		50 / 32 kW - 280 / 180 Nm		50 / 32 kW - 280 / 180 Nm	

Accuracies (As Per VDI DGQ 3441)

Positioning Uncertainty: P (X-Y-Z / B-C)	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.007 mm Rotating : 10 sec	Linear : 0.007 mm Rotating : 10 sec
Repeatability: Ps Medium (X-Y-Z / B-C)	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.004 mm Rotating : 5 sec	Linear : 0.004 mm Rotating : 5 sec

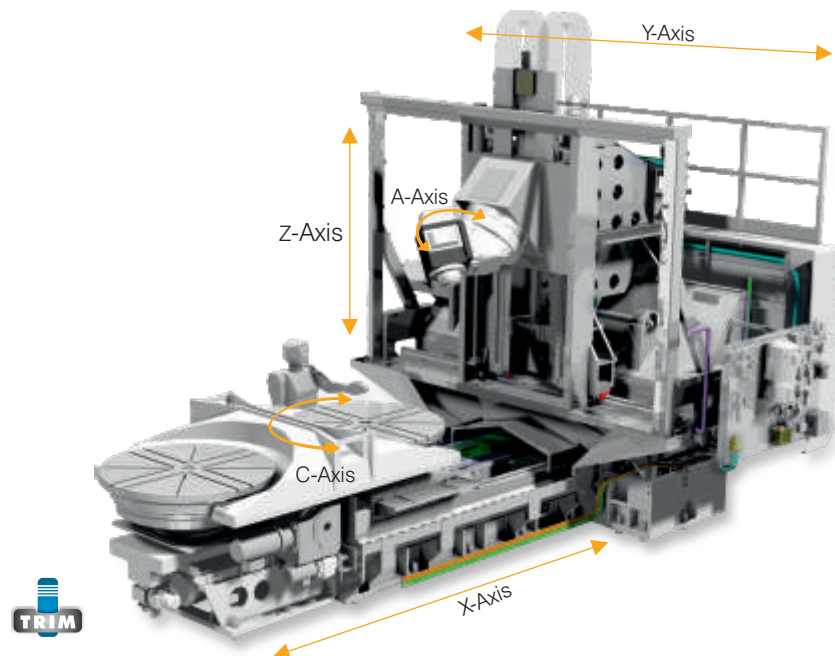
Machine Capacities with Siemens Controller.



ROTARY TABLE

- TRIM technology for high rpm and torque
- Rigidity : high clamping torque during heavy roughing
- 2 versions : Milling & Mill Turn

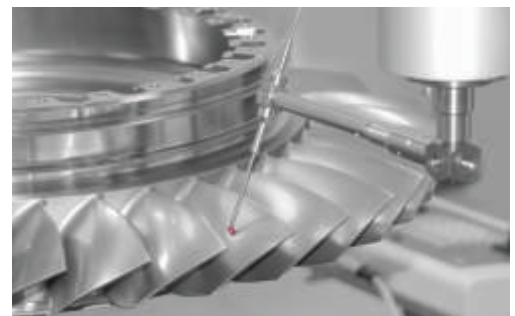
Moving Column Type Machine



Chain Type ATC
Outside of Working Area



Fork Head Option for -ve angle



Online Quality Check



GLOBAL PRESENCE

Sales & Service Network



INDIA
headquarter



FRANCE Illkirch
Huron S.A.S. Jyoti Subsidiary



FRANCE Escharu
(Huron S.A.S., Jyoti Subsidiary)

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