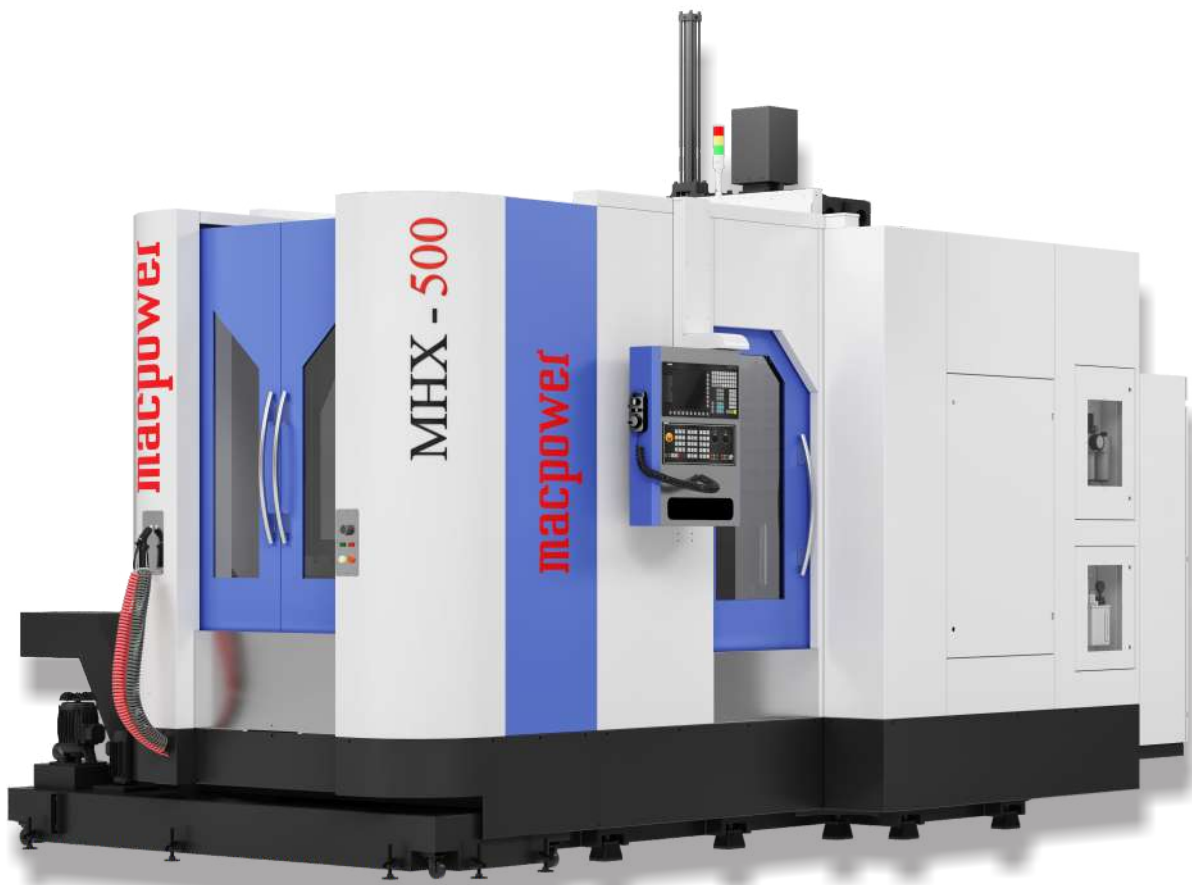


HORIZONTAL MACHINING CENTER



HMC SERIES

ONE NUMBER - MULTI SOLUTIONS

FOR SALES INQUIRIES & CUSTOMER CARE

7998-7998-16



TEXT

www.macpowercnc.com



WHY MACPOWER ?

- Totally In-house Manufacturing Capability
- Wide range of products to choose from
- Effective "Cost to Performance" solution provider
- Believing in partnership with customers and not as buyer and seller
- Efficient after sales service back up
- Availability of spares
- Emphasis on continuous R & D & Training
- Flexibility & Openness to manufacture customized machines
- Fast decision making process
- Macpower is a company with a modern outlook – giving you contemporary solutions through time-tested expertise.

COMPANY PROFILE

Macpower CNC Machines Limited (Macpower) welcomes to the world of machining excellence. More than one and half decades of experience and the vision towards creating a niche has transformed Macpower into India's fastest growing CNC Manufacturing Company. This meteoric growth is a result of Macpower's vision of par excellence to manufacture state of the art products, adopting the best in technology.

In 2003, Macpower Group started Macpower CNC Machines Limited, CNC Machines manufacturing unit in an area of around 4 acres and has grown to almost double thereafter with 2 units in operation at present situated at Metoda G. I. D.C., Rajkot (India). Macpower is registered to ISO 9001(Design), a universally accepted quality assurance designation and MSE-1 certification for highest financial strength and operational ability by CRISIL.

The modern headquarters contains a spacious State of the Art Machine Shop, Totally Equipped Assembly Shops, All Modern Measuring and Testing Equipments, Technologically Advanced Sheet Metal Unit and One of it's Kind Powder Coating Plant make Macpower Totally In-House Manufacturing Company.

Macpower is currently offering widest range of 9 different product categories namely Turning Center, Twin Spindle Turning Center, VMC, Twin Spindle VMC, TurnMill Center, HMC, VTL, DTC, Grinder with 27 versions and 60+ different models serving 27 industry segment world wide with 8000+ installations.

Sales & Service Team presence in 37 cities across the country with 107 qualified engineers and 9 business associates; establishment of multiple regional offices and technology centers across the country to have better connect with our valued customers.

INFRASTRUCTURE



MACHINE SHOP AREA



ASSEMBLY AREA



POWDER COATING AREA



SHEET METAL AREA

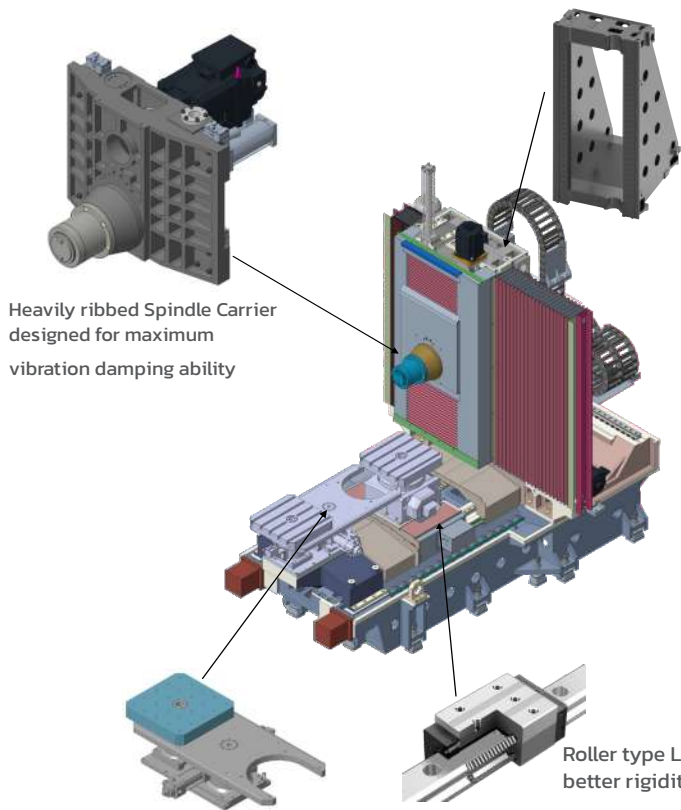


SPINDLE ASSEMBLY AREA



RESEARCH AND DEVELOPMENT

Structure & Frame



Heavily ribbed Spindle Carrier designed for maximum vibration damping ability

Rigid, Thermo - symmetric Structures, designed for best strength to weight ratio

The rigid bed and step up structure are made out of FG260 grade cast iron for more stability. It is ribbed to provide more rigidity and less distortion during cuts and faster production, with virtually no vibration. A totally revamped ergonomic structure and frame helps stabilize different machining operations with requisite precision.

Roller type LM guide-ways for better rigidity & sustained accuracies

HEAVY DUTY SPINDLE

The precision cartridge spindle unit having three super precise angular contact bearings at front and two at rear end, this combination ensures higher stiffness. Bearings are perfectly aligned and grease packed for long life.



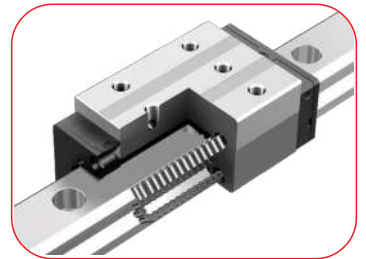
AUTO TOOL CHANGER

A bi-directional magazine taking shortest path, ATC magazine is located separately from the machine area. Tool storage capacity to suit individual requirement 30, 40, 60 tools.



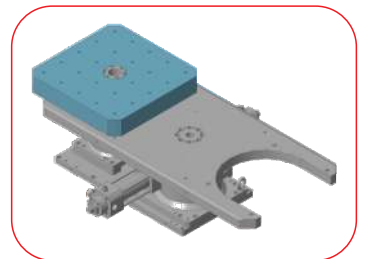
PRECISE ROLLER GUIDEWAYS

All axes are furnished with precise and heavy load capacity recirculating roller guide ways for better rigidity & sustained accuracies.



AUTO PALLET CHANGER

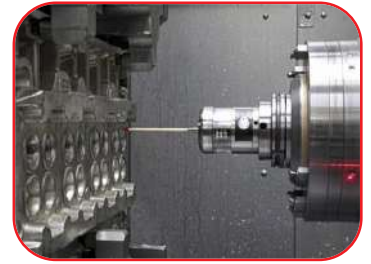
Machine consists of 180° rotary type Automatic Pallet changer. During pallet change cycle, strong jets of air are discharged from the taper cones which removes any chips & provides clean surface for location of pallet onto the machine ensuring high repeatability of pallet position.



PRODUCTIVITY ENHANCEMENT OPTIONS

TOOL & JOB PROBE

A wide choice of spindle and surface sensing probes as tool and job probes with infrared / radio /laser transmission technology are available for increased spindle utilization and reduce non productive time.



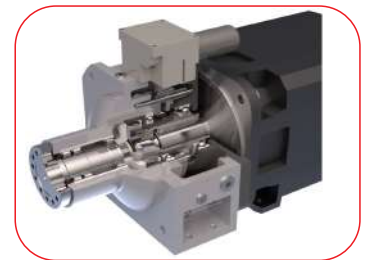
COOLANT THROUGH SPINDLE (CTS)

Coolant through Spindle system provides high pressure coolant directly to cutting edge minimizing heat distortion, ensuring maximum productivity with today's high performance tooling. Highly recommend for jobs demanding deep hole drilling and tapping.



GEAR BOX

For application requiring high cutting torque for harder material or high cutting speed for soft materials, 2 speed gearbox need to be opted. These gearbox provide higher cutting torque at lower RPM with auto shifting mechanism keeping power constant. Such gearbox get directly coupled to main spindle motor giving production flexibility with-out disturbing precision.



CHIP CONVEYOR

Efficient chip disposal with chip conveyor on front side of bed. Hinged Type Chip Conveyor to handle steel and aluminum chips. Ample shower wash facility to avoid chip accumulation.



OVER HEAD SHOWER

Fully enclosed machining zone with overhead shower wash for most efficient chip evacuation

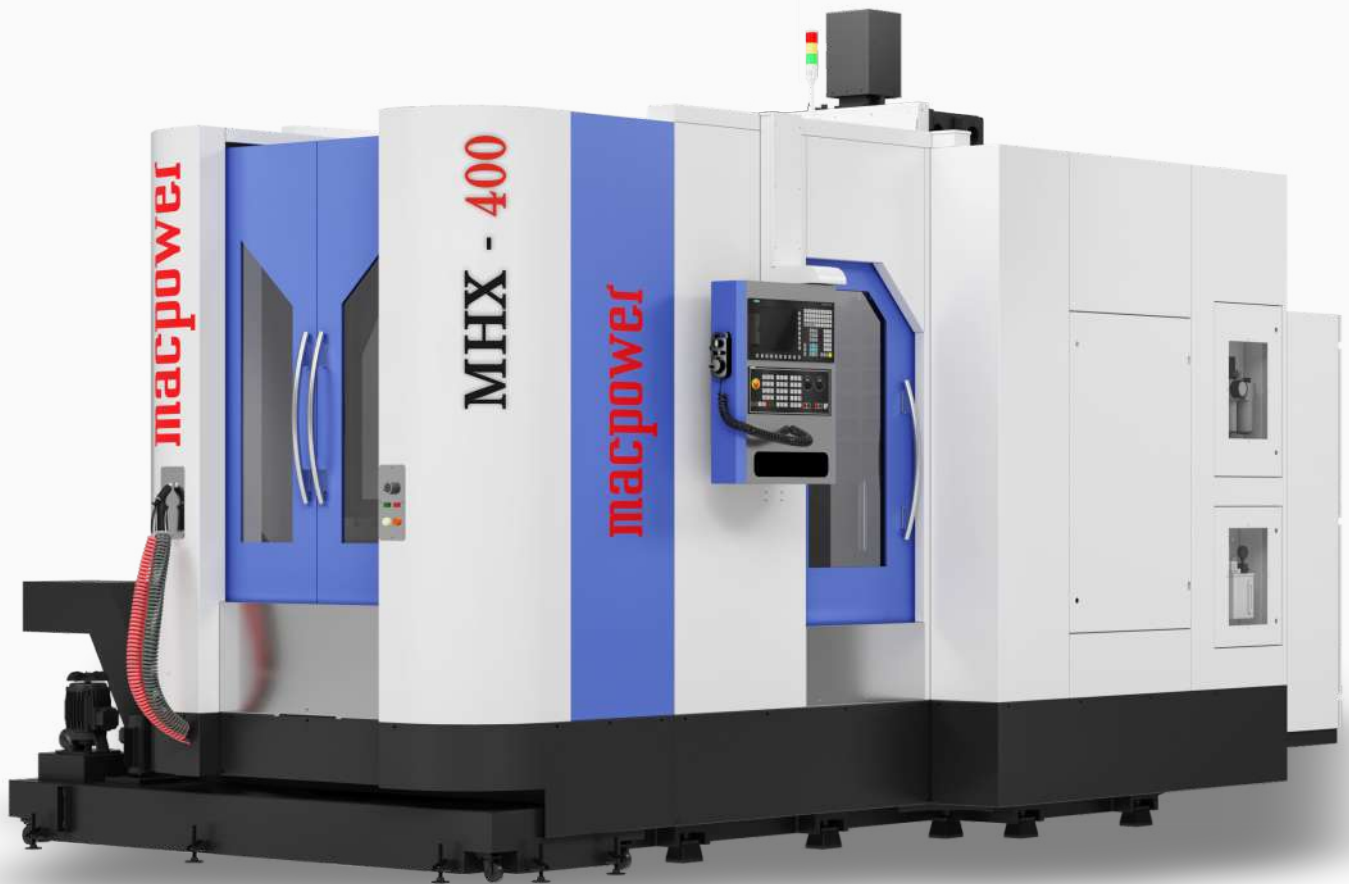


MHX 400

HORIZONTAL MACHINING CENTER



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MACHINE CONFIGURATIONS



AXIS CAPACITY

	UNIT	MHX 400
Travel X	mm	600
Travel Y	mm	600
Travel Z	mm	600
Rapid X/Y/Z	m/min.	36(40)
Table Top to Spindle Center	mm	100 - 700
Table Center to Spindle Face	mm	100 - 700

TABLE

Size	mm	400X400
Index Resolution	Deg.	360X0.001°(1°)
Max. Job Dia X Height	-	Ø 600X700
T Slot	mm	18
Max. Safe Load on Table	Kg	350

SPINDLE

Taper	-	BT - 40 (BT-50)
Speed	RPM	80 - 8000 (60-6000)
Cutting Feed Rate	mm/min.	1 - 10000
Spindle Motor Continuous Rating	Kw	11
Spindle Motor 15 min. Rating	Kw	15

AUTOMATIC TOOL CHANGER

ATC Make	-	Pragati
No. of Tools (Std/Opt)	-	24(30)
Max. Tool Dia. (All pocket full)	mm	80
Max. Tool Dia. (Adj. pocket empty)	mm	125
Tool Length Max.	mm	250
Tool Weight Max.	Kg	7

AUTOMATIC PALLET CHANGER

Types Of APC	-	Rotary
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ACCURACY

Positional Accuracy	mm	0.010
Repeatability	mm	0.007

CHIP REMOVAL

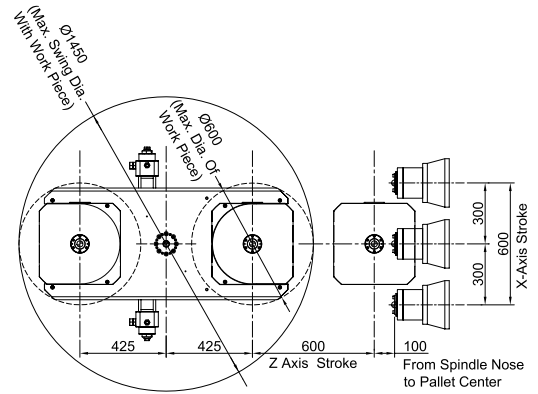
Chip Removal	-	Front side
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SYSTEMS

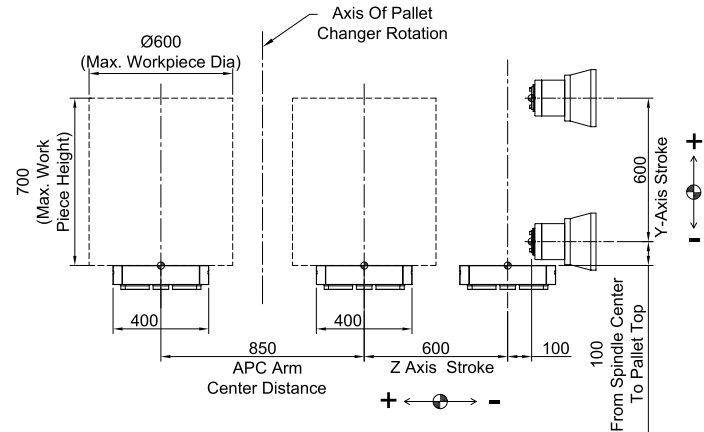
Fanuc	-	Oi MF Plus
Siemens	-	828D
Mitsubishi	-	M80V

***Note:- No Counter Balance In MHX 400**

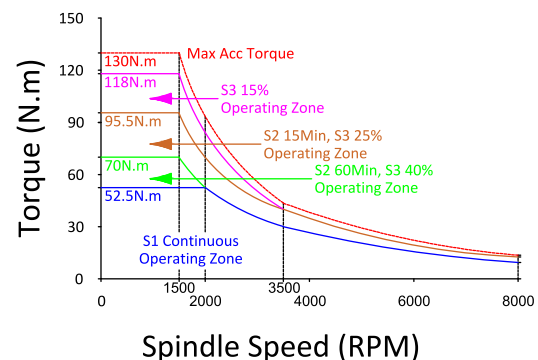
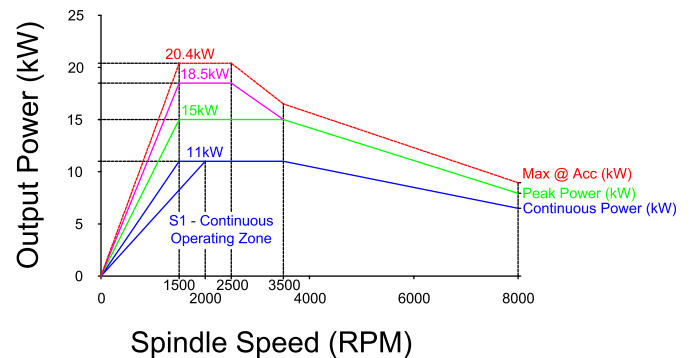
TOOL INTERFERENCE DIAGRAM



MACHINING RANGE



POWER & TORQUE DIAGRAM

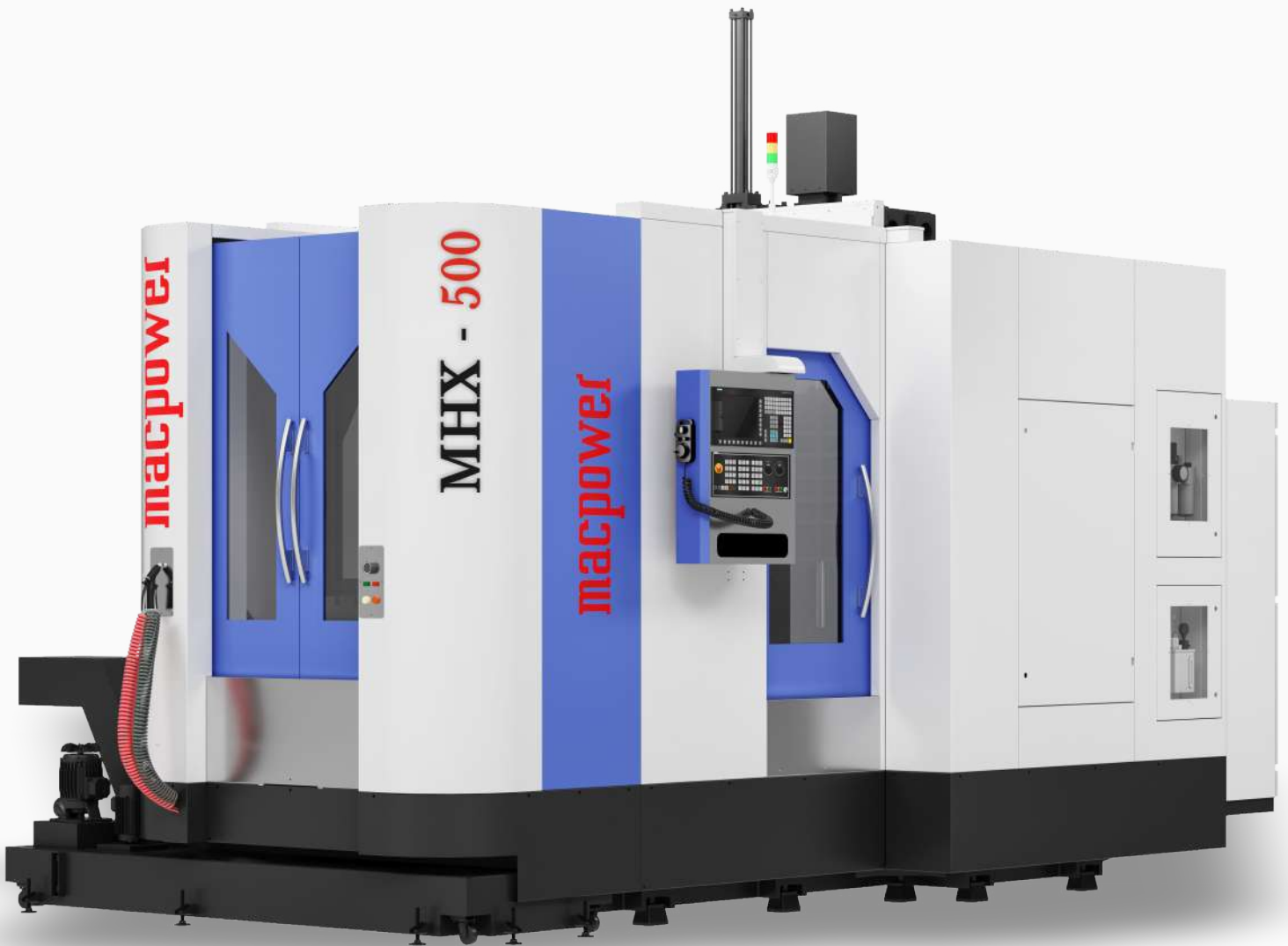


MHX 500

HORIZONTAL MACHINING CENTER



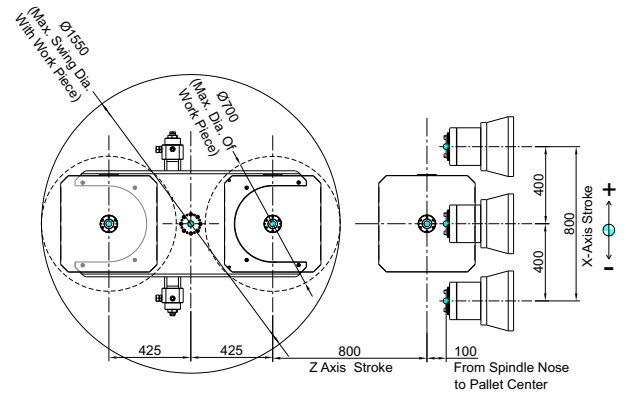
THE HORIZONTAL MACHINE CENTER
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MACHINE CONFIGURATIONS



TOOL INTERFERENCE DIAGRAM



AXIS CAPACITY

	UNIT	MHX 500
Travel X	mm	800
Travel Y	mm	700
Travel Z	mm	800
Rapid X/Y/Z	m/min.	30(40)
Table Top to Spindle Center	mm	100 - 800
Table Center to Spindle Face	mm	100 - 900

TABLE

Size	mm	500X500
Index Resolution	Deg.	360X0.001°(1")
Max. Job Dia X Height	-	Ø 700X800
T Slot	mm	18
Max. Safe Load on Table	Kg	500

SPINDLE

Taper	-	BT - 50
Speed	RPM	60 - 6000
Cutting Feed Rate	mm/min.	1 - 10000
Spindle Motor Continuous Rating	Kw	15
Spindle Motor 15 min. Rating	Kw	18.5 (P)

AUTOMATIC TOOL CHANGER

ATC Make	-	Pragati
No. of Tools (Std/Opt)	-	30(40)
Max. Tool Dia. (All pocket full)	mm	125
Max. Tool Dia. (Adj. pocket empty)	mm	225
Tool Length Max.	mm	400
Tool Weight Max.	Kg	20

AUTOMATIC PALLET CHANGER

Types Of APC	-	Rotary
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ACCURACY

Positional Accuracy	mm	0.010
Repeatability	mm	0.007

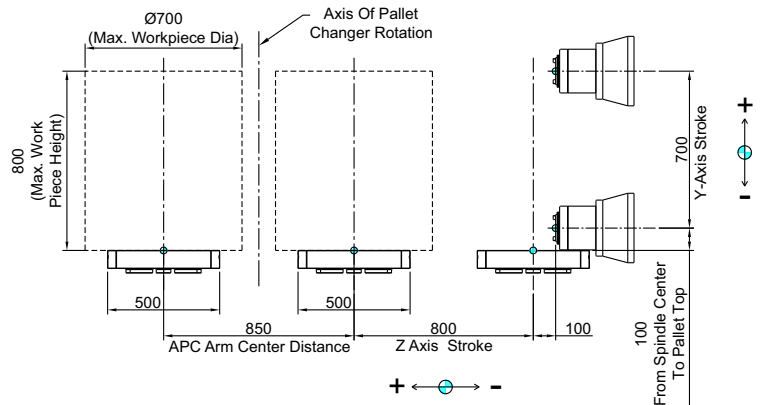
CHIP REMOVAL

Chip Removal	-	Front side
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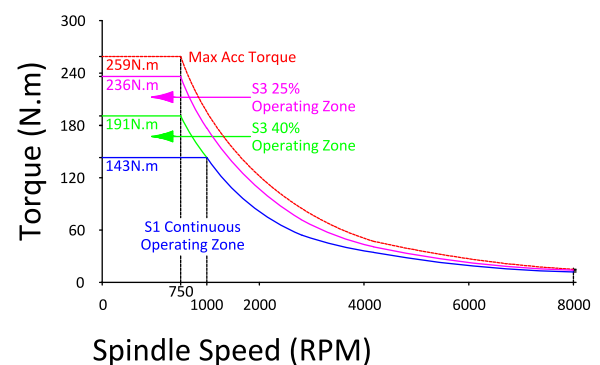
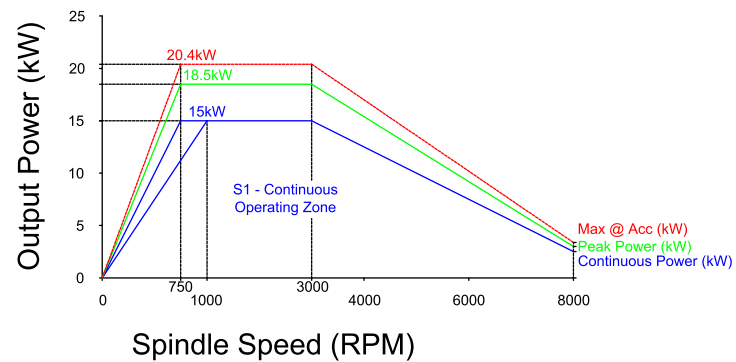
SYSTEMS

Fanuc	-	Oi MF Plus
Siemens	-	828D
Mitsubishi	-	M80V

MACHINING RANGE



POWER & TORQUE DIAGRAM



MHX 630

HORIZONTAL MACHINING CENTER



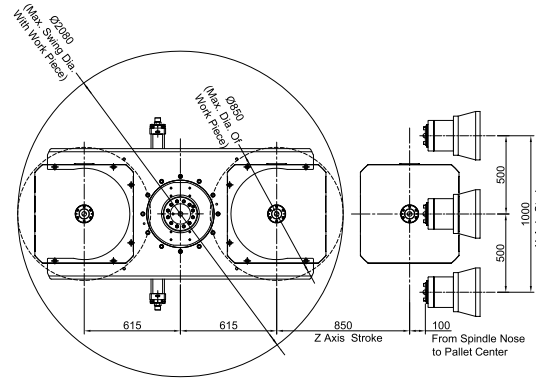
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MACHINE CONFIGURATIONS



TOOL INTERFERENCE DIAGRAM



AXIS CAPACITY

	UNIT	MHX 630
Travel X	mm	1000
Travel Y	mm	800
Travel Z	mm	850
Rapid X/Y/Z	m/min.	30(40)
Table Top to Spindle Center	mm	125 - 925
Table Center to Spindle Face	mm	100 - 950

TABLE

Size	mm	630X630
Index Resolution	Deg.	360X0.001(1°)
Max. Job Dia X Height	-	Ø 850X1000
T Slot	mm	18
Max. Safe Load on Table	Kg	1000

SPINDLE

Taper	-	BT - 50
Speed	RPM	60 - 6000
Cutting Feed Rate	mm/min.	1 - 10000
Spindle Motor Continuous Rating	Kw	15
Spindle Motor 15 min. Rating	Kw	18.5 (P)

AUTOMATIC TOOL CHANGER

ATC Make	-	Pragati
No. of Tools (Std/Opt)	-	30(40)
Max. Tool Dia. (All pocket full)	mm	125
Max. Tool Dia. (Adj. pocket empty)	mm	225
Tool Length Max.	mm	400
Tool Weight Max.	Kg	20

AUTOMATIC PALLET CHANGER

Types Of APC	-	Rotary
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ACCURACY

Positional Accuracy	mm	0.010
Repeatability	mm	0.007

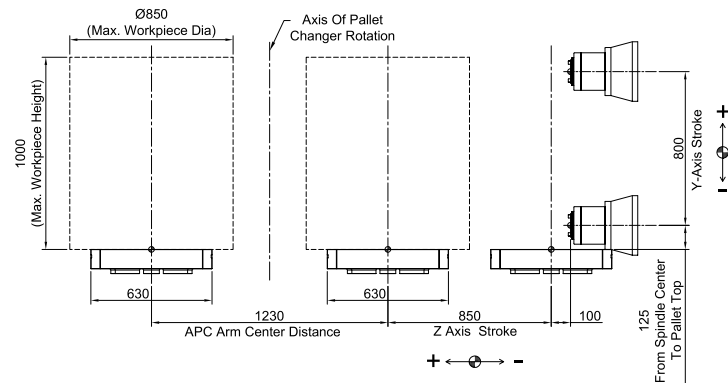
CHIP REMOVAL

Chip Removal	-	Front side
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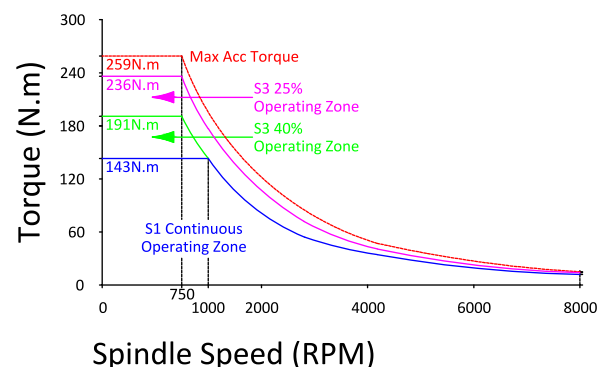
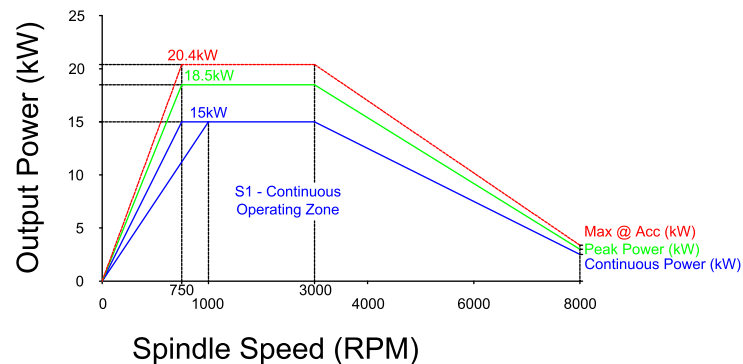
SYSTEMS

Fanuc	-	Oi MF Plus
Siemens	-	828D
Mitsubishi	-	M80V

MACHINING RANGE



POWER & TORQUE DIAGRAM



FOR MORE INFORMATION PLEASE CONTACT

WEST ZONE

Rajkot	:	93777 87930
Jamnagar	:	74860 42366
Surendranagar	:	74860 42366
Morbi	:	93777 87930
Bhavnagar	:	93777 87930
Ahmedabad	:	93775 87930
Sanand	:	93775 87930
Anand	:	93775 87930
Baroda	:	63560 02810
Halol	:	63560 02810
Surat	:	93753 87930
Vapi	:	93753 87930
Mumbai	:	93203 87930
Nasik	:	93713 87930
Aurangabad	:	93456 87930
Kolhapur	:	72858 55955
Pune	:	93210 87930
Ahmednagar	:	93210 87930

NORTH ZONE

Delhi	:	76000 10288
Faridabad	:	74860 29853
Ghaziabad	:	72111 02820
Noida	:	76000 10288
Gurugram	:	63588 811123
Haryana	:	89504 69265
Sonipat	:	89504 69265
Ludhiana	:	99886 93302
Mohali	:	99886 93302
Jaipur	:	72111 88869
Alwar	:	72111 88869
Jodhpur	:	72111 88869

EAST ZONE

Kolkata	:	93758 45361
Jameshedpur	:	93758 45361

SOUTH ZONE

Hyderabad	:	72111 03869
Bangalore	:	72111 03869
Chennai	:	63560 02822
Belgaum	:	91641 02610
Coimbatore	:	72111 02822
Trichy	:	72111 02822
Kerala	:	72111 02822

CENTRAL ZONE

Indore	:	99747 97756
Bhopal	:	87706 96570

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Note : Technical Specifications and Colors are subject to change as a part of continuous development.