

ALL **NEW** 5TH GENERATION

SERIES

EMPOWERED

INNOVATION



LARGE
SERIES

ONE NUMBER - MULTI SOLUTIONS

FOR SALES INQUIRIES & CUSTOMER CARE

7998-7998-16





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.



OUR VISION

To Provide Best Solution In Machine Tool Industry.

OUR MISSION

Fostering A Spirit Of Continuous Learning And Innovation.

To Offer World Class Products Through Continuous Innovation.

To Reach New Sectors Of Industry In Particular And Society At Large By Offering Products Which Make Change In Present State Of Machine Tools.

To Nurture Best Brains In The Company So As To Develop Them As A Future Leader To Enhance The Company To A Newer Level.

To Provide Quick And Effective Service Base To Enhance Customer Satisfaction Index.





MACHINE SHOP AREA



ASSEMBLY AREA



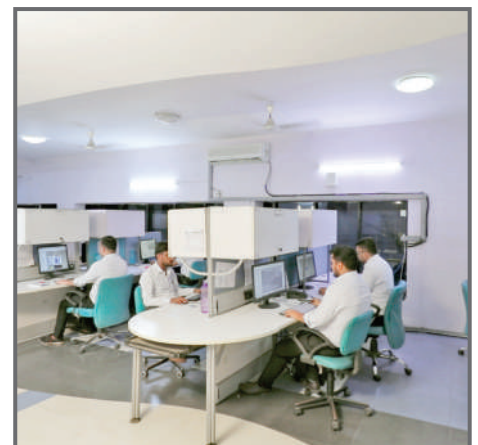
POWDER COATING AREA



SHEET METAL AREA



SPINDLE ASSEMBLY AREA



RESEARCH AND DEVELOPMENT

Major strength of our product quality is usage of highly precision parts as a part of our In-house manufacturing facilities. We have well qualified, trained skilled intellectual capital to manage manufacturing of High technology driven machines. We have proven state of the art manufacturing and assembly facilities to fulfill the customers' need.

We have **IN HOUSE FACILITIES LIKE,**

The Ultra-Modern **MACHINE SHOP** hosts an a series of mother machineries like multi axes internal and external thread grinder, moving column boring machine, multiple DCMs, tooled up HMCs, surface grinder, series of VMCs, Turn Mill Center along with latest material handling facilities and all the mother machineries are equipped with latest high end tooling and separate set of measuring instruments and QC procedure is being laid down for testing of machined components.

In House **SPINDLE MANUFACTURING AREA** equipped with Kellenberger KEL 100 Universal Cylindrical Grinder with internal and external Thread Grinding Facility and Spindle assembly along with Controlled Temperature Precision Room with Hi tech Spindle Balancing System.

ASSEMBLY SHOP has been established with Ucreate flooring, Hi-tech Assembly equipment's & Totally dust Free Environment. In addition Assembly set up classified with product categories like **TURNING CENTERS, MACHINING CENTERS, TURN MILLS CENTER & MULTI AXES CENTERS.**

SHEET METAL division is equipped with 8 Axes AMADA Press Brake with Auto Angle correction, SLTL fiber laser profile cutting machine, Modular welding with Assembly set up & Separate Storage Area for ready to use Sheet Metal enclosures for the world class machine with high quality sheet required for the machine guarding.

POWDER COATING PLANT is performing with 11 Tank PT Hot and Cold Process with GEMA Automatic Powder Coating Gun system for preventing from corrosion and giving the best aesthetically appeal design with dynamic looks of machines.

At Macpower **R&D department**, we have intelligent minds with diverse backgrounds to develop technology that is not just effective today, but also tomorrow.

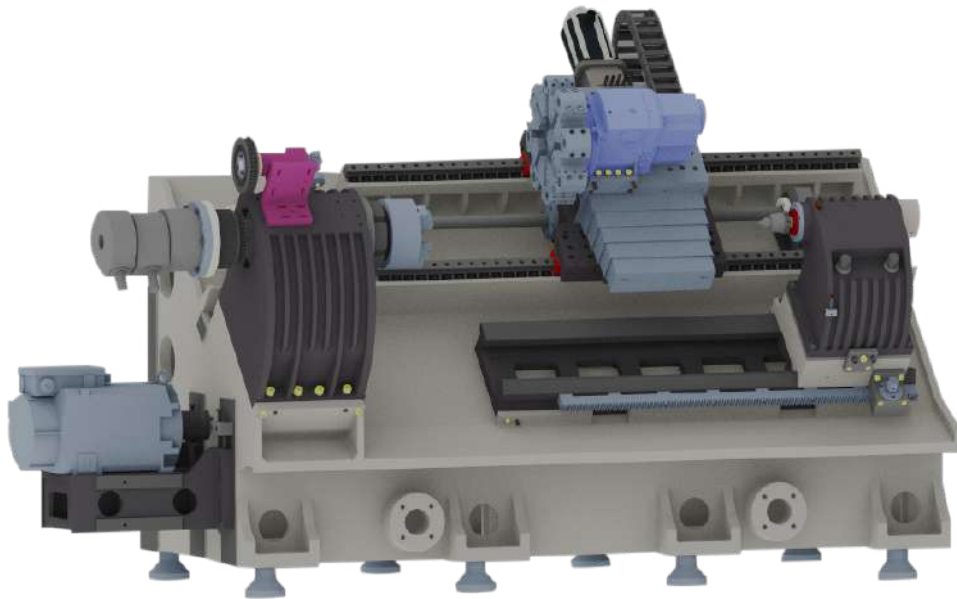
As our machine development process afforded by the incorporation of digital design techniques, we were able to take an idea and turn it into a prototype in just under one to two months.

OVERVIEW

in today's competitive market, you need robust CNC turning centers with uncompromised performance and specifications to produce world class products quickly accurately and with minimum non productive time LARGE Series is really a feather in the cap for Macpower since it gives rigidity and performance to the optimum level.

Structure & Frame

The 45° degree inclined single piece (Monoblock) bed allows heavy depth of cut without vibration since the improved version of the Mono structure imparts broader base with harmonious ribbed structure. The graded casting along with evenly spreaded granular structure and optimally spaced LM allows smooth machining without vibration. All in all, it's a single piece wonder for machining of various components manufactured to cater various sectors of the industry.



Tailstock

The tailstock consists of a hydraulically operated quill, which moves inside the housing. The quill and body are independently moveable. The tailstock is supported on V and flat guide ways. Programmable quill is provided as a standard feature.

Carriage Assembly

X and Z Slide are mounted on precise four circuit linear motion blocks with high load carrying capacity, designed to support increased acceleration and deceleration rates as well as cutting pressure.

Guarding

Equipped with the advantage of an ergonomic design. The machine comes with a full guard that enables a clean premise throughout the operation. These feature prevents contamination being spread on to machine slides, switches and other electrical devices. The all new Guarding is developed in such a way that it supports the structure well enough to reduce the overall footprint of the machine.



Spindle

The spindle is of cartridge type design and uses 3 super precision angular contact bearings at front and 2 angular contact bearings at rear end. The bearing configuration gives high stiffness to the spindle assembly in both axial and radial direction.

Precise Roller Guideways

All axes are furnished with precise and heavy load capacity re-circulating roller guide ways enabling high acceleration-de acceleration and hence better productivity.

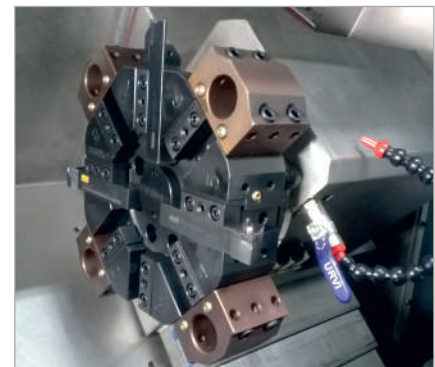


Double-Anchored Ball Screws

Ball Screws are directed by direct coupled AC servo motor with flexible coupling. This greatly improves positioning accuracy, and provides more accurate threading and contouring. Ball Screws are anchored at both ends and inspected for parallelism with axis guide. Pre-loaded ball nuts eliminate backlash.

Turret

Bi-directional turret in either direction for minimum possible induction time they are robust and completely enclosed with complete lubrication.



Advance Inspection Technology

Laser Calibration is carried out to insure the linear accuracy, providing accurate compensation for pitch and backlash. The machine facilities the attainment of positional accuracy up to 0.01 mm / 300 mm and repeatability accuracy up to 0.007 mm.



NEW

MONO 1000



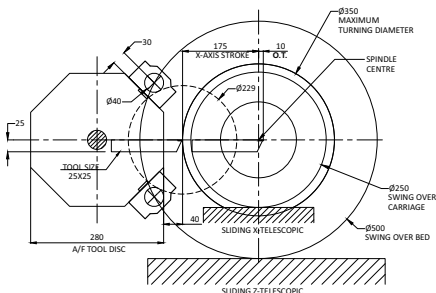
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1025
Travel (X / Z)	mm	185 / 1025
Rapid Feed (X / Z)	m/min	24
Chuck Size	mm	200 x 3
Spindle Power (Fanuc)	kW	11 / 15
Spindle Bore	mm	63
Spindle Nose		A2-6
Weight (Approx)	Kg	5100

*Max. Turning Dia is For Limited Length

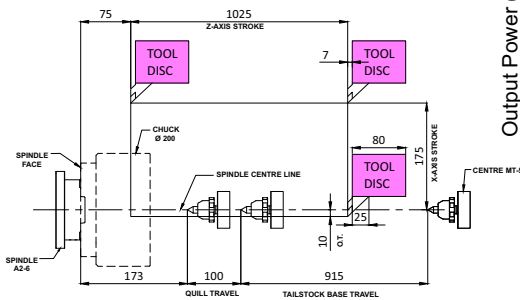
Components



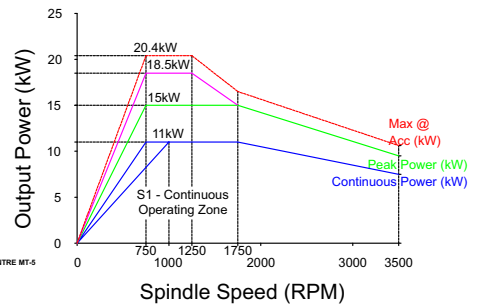
Tool Interference Diagram



Machining Range



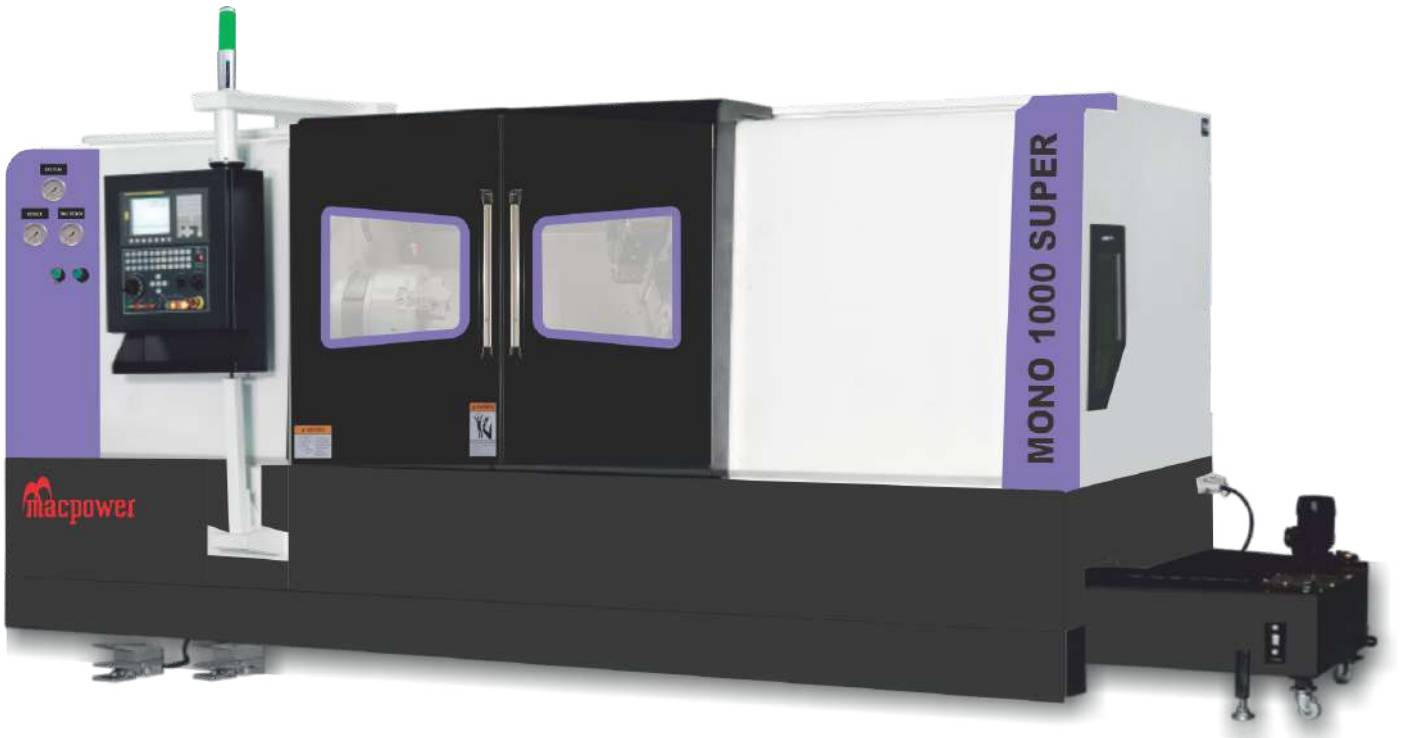
Power Diagram



NEW

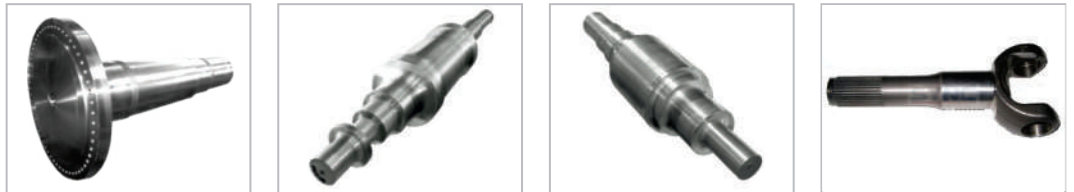


MONO 1000 SUPER



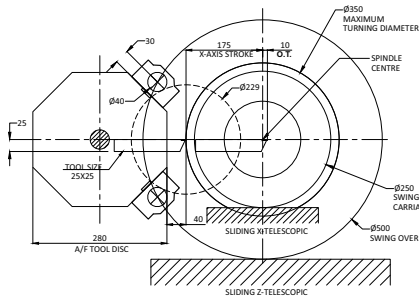
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1025
Travel (X / Z)	mm	185 / 1025
Rapid Feed (X / Z)	m/min	24
Chuck Size	mm	250 x 3
Spindle Power (Fanuc)	kW	11 / 15
Spindle Bore	mm	90
Spindle Nose		A2-8
Weight (Approx)	Kg	5200

Components

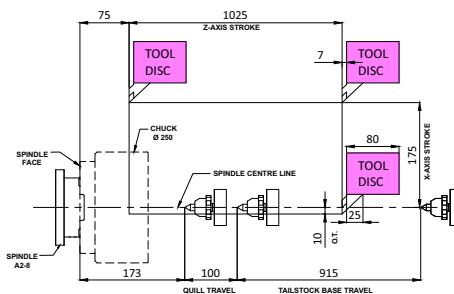


*Max. Turning Dia is For Limited Length

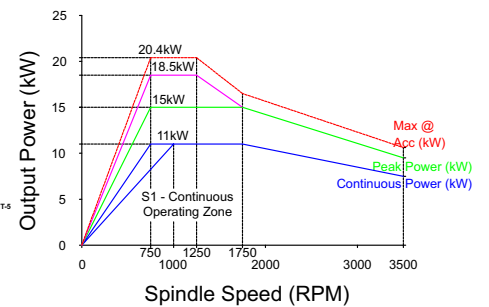
Tool Interference Diagram



Machining Range



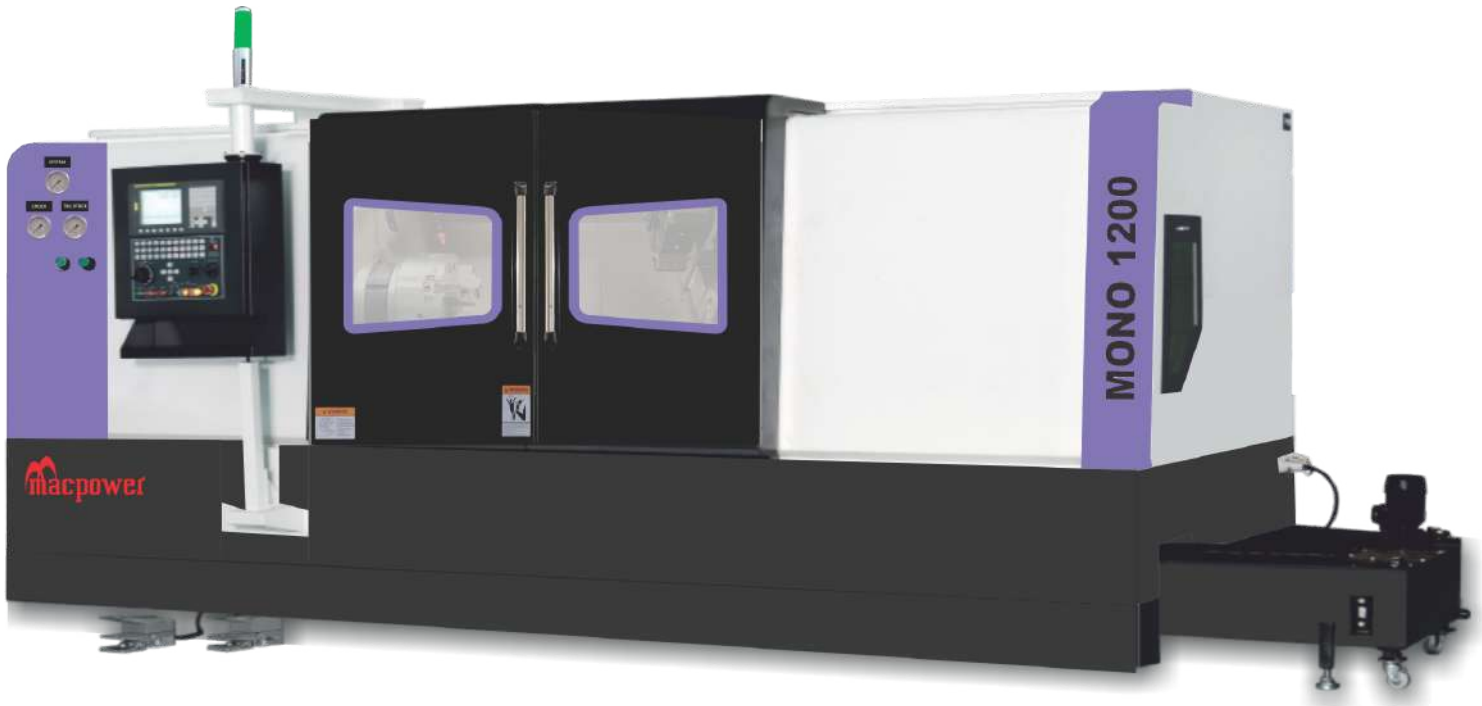
Power Diagram



NEW



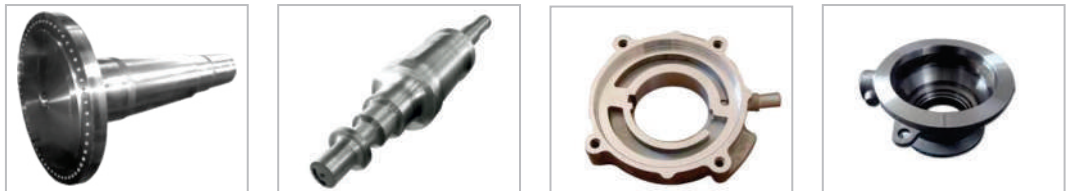
MONO 1200



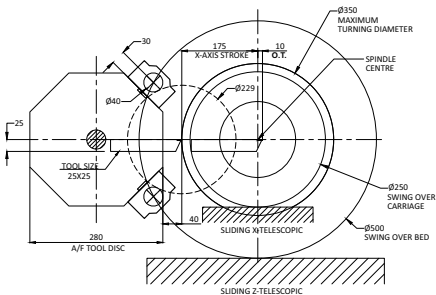
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1225
Travel (X / Z)	mm	185 / 1225
Rapid Feed (X / Z)	m/min	24
Chuck Size	mm	200 x 3
Spindle Power (Fanuc)	kW	11 / 15
Spindle Bore	mm	63
Spindle Nose		A2-6
Weight (Approx)	Kg	5400

*Max. Turning Dia is For Limited Length

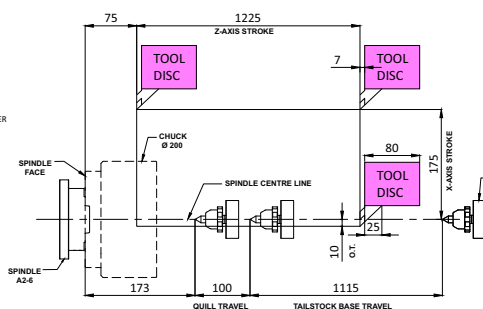
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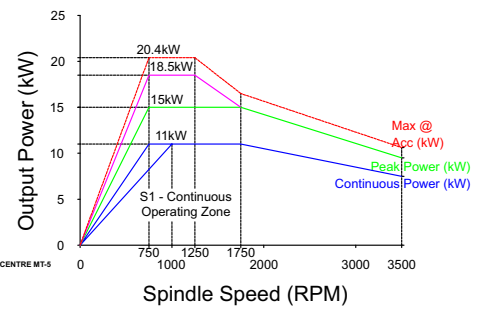
Tool Interference Diagram



Machining Range



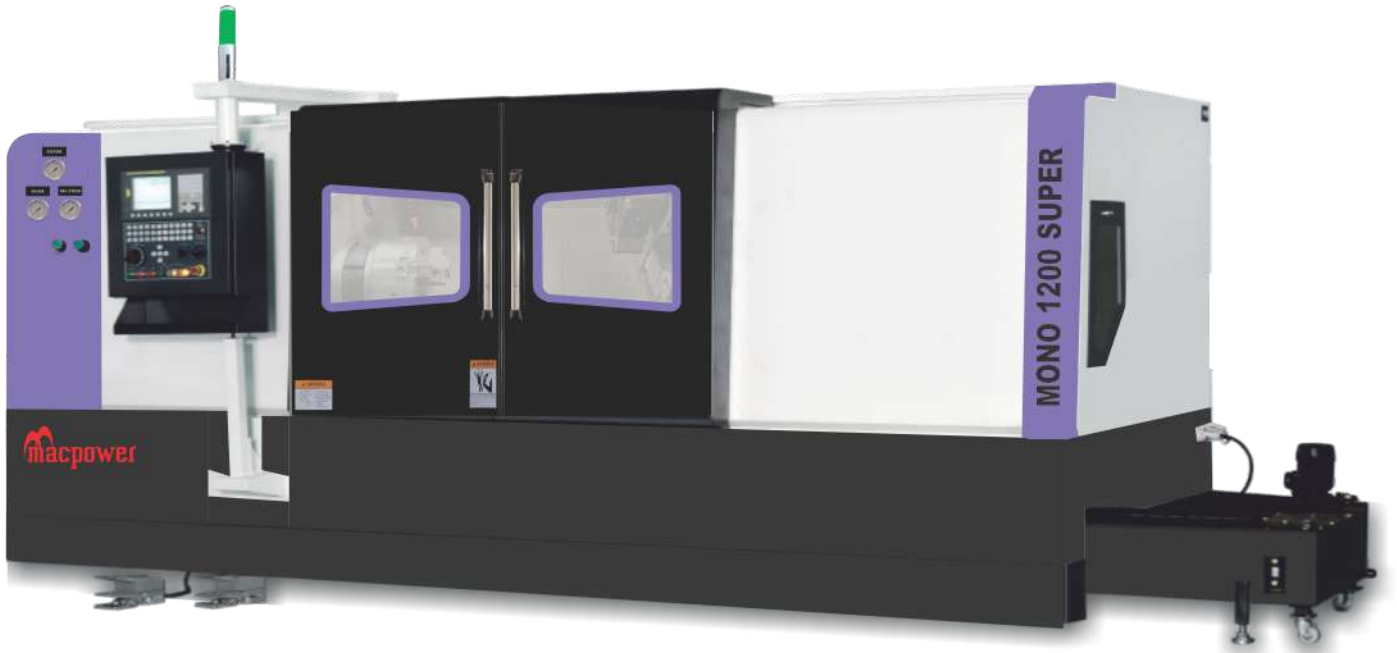
Power Diagram



NEW



MONO 1200 SUPER



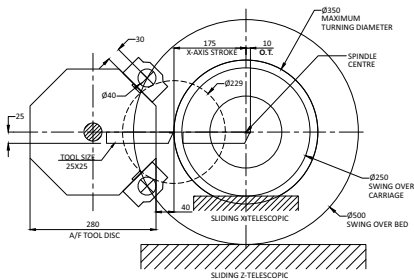
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1225
Travel (X / Z)	mm	185 / 1225
Rapid Feed (X / Z)	m/min	24
Chuck Size	mm	250 x 3
Spindle Power (Fanuc)	kW	11 / 15
Spindle Bore	mm	90
Spindle Nose		A2-8
Weight (Approx)	Kg	5500

Components

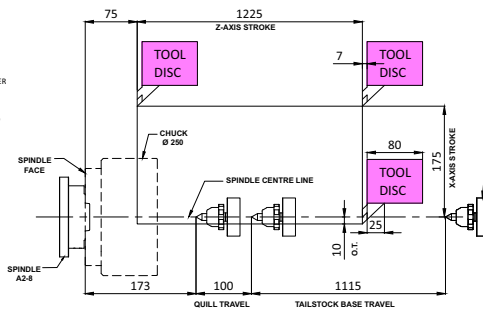


*Max. Turning Dia is For Limited Length

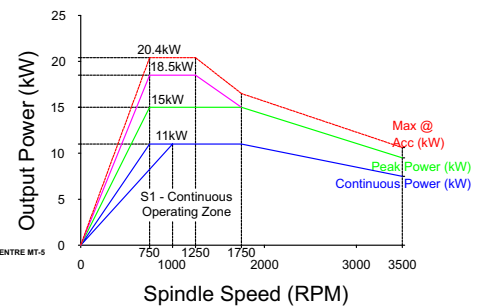
Tool Interference Diagram



Machining Range



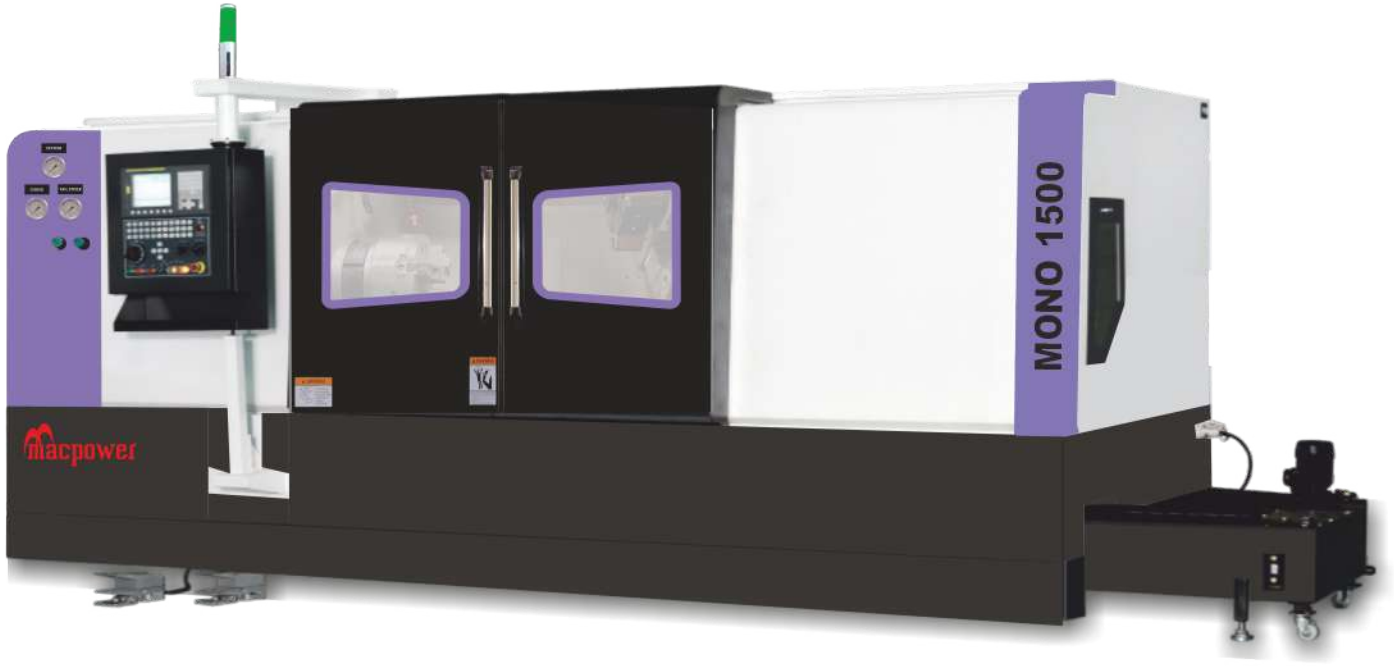
Power Diagram



NEW



MONO 1500



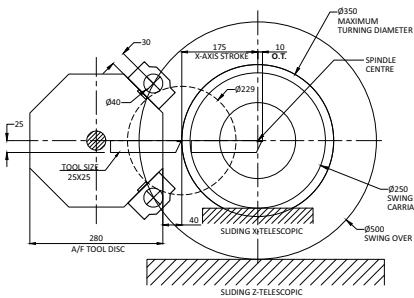
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1500
Travel (X / Z)	mm	185/1500
Rapid Feed (X / Z)	m/min	20
Chuck Size	mm	200 x 3
Spindle Power (Fanuc)	kW	11/15
Spindle Bore	mm	63
Spindle Nose		A2-6
Weight (Approx)	Kg	-

Components

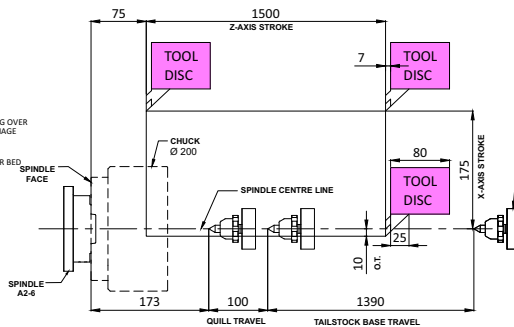


*Max. Turning Dia is For Limited Length

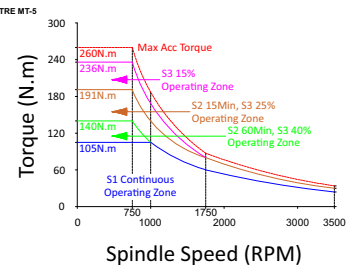
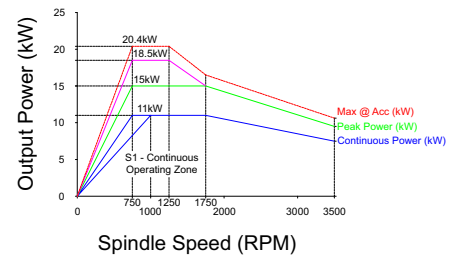
Tool Interference Diagram



Machining Range



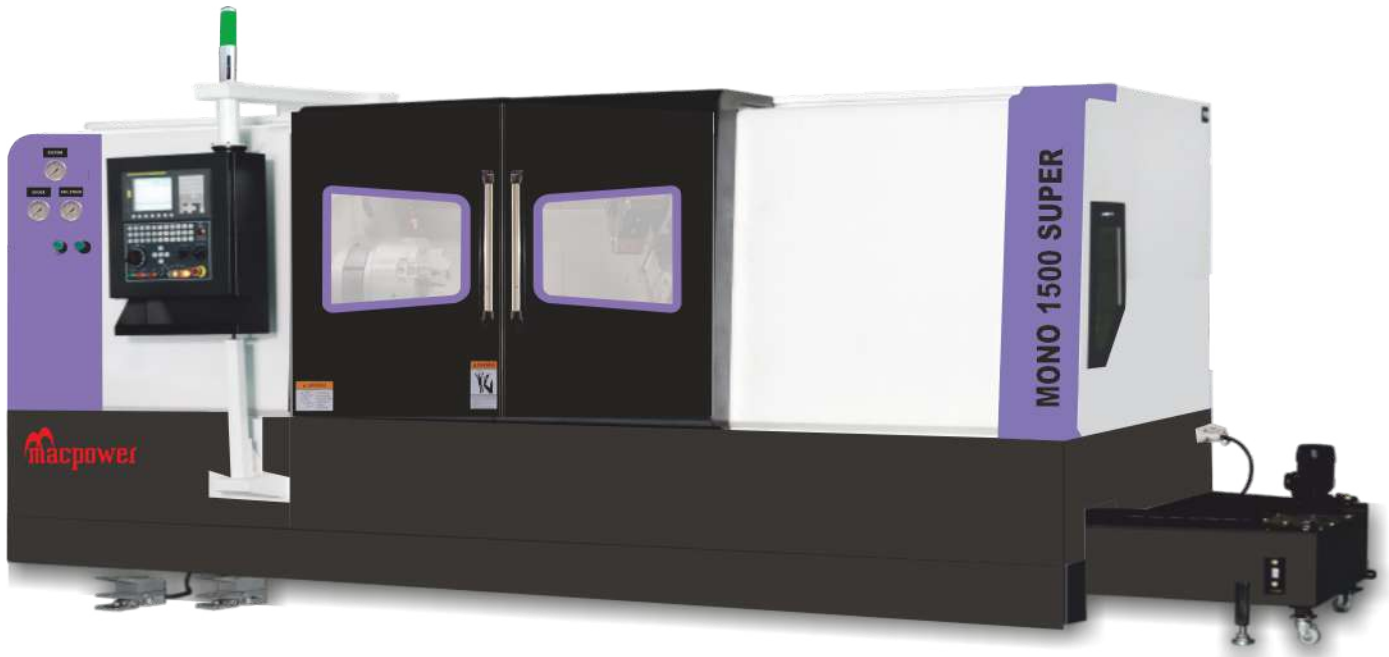
Power & Torque Diagram



NEW



MONO 1500 SUPER



Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	1500
Travel (X / Z)	mm	185/1500
Rapid Feed (X / Z)	m/min	20
Chuck Size	mm	250 x 3
Spindle Power (Fanuc)	kW	11/15(P)
Spindle Bore	mm	90
Spindle Nose		A2-8
Weight (Approx)	Kg	-

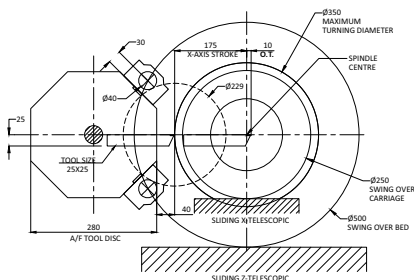
Components



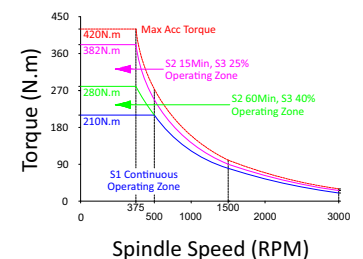
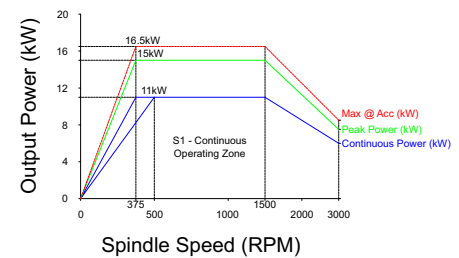
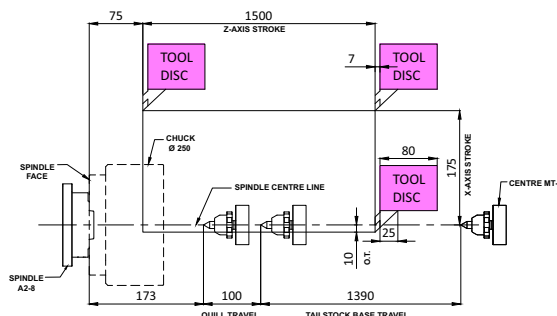
*Max. Turning Dia is For Limited Length

Power & Torque Diagram

Tool Interference Diagram



Machining Range



NEW

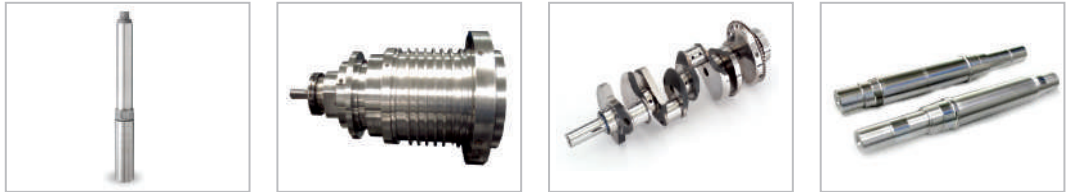


MONO 2000



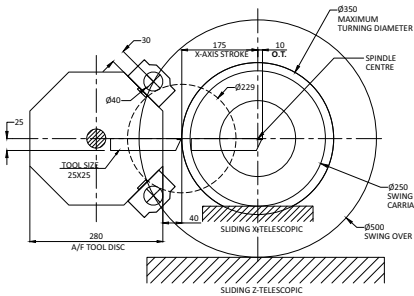
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	2000
Travel (X / Z)	mm	185/2000
Rapid Feed (X / Z)	m/min	20
Chuck Size	mm	200 x 3
Spindle Power (Fanuc)	kW	11/15
Spindle Bore	mm	63
Spindle Nose		A2-6
Weight (Approx)	Kg	-

Components

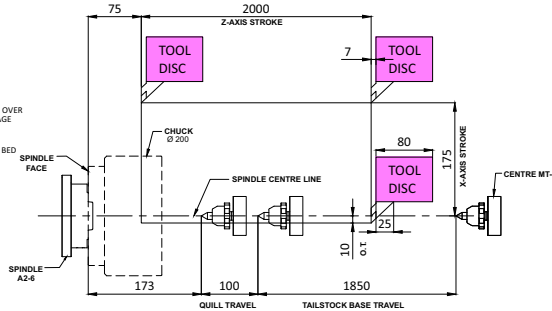


*Max. Turning Dia is For Limited Length

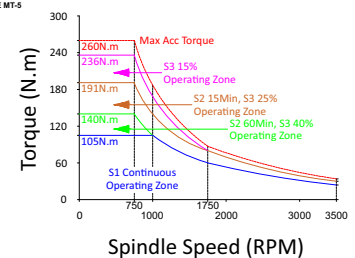
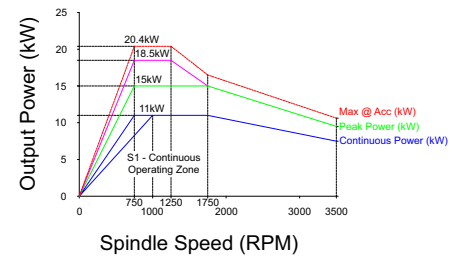
Tool Interference Diagram



Machining Range



Power & Torque Diagram



NEW



MONO 2000 SUPER



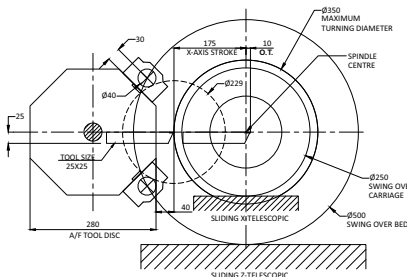
Swing Over Carriage	mm	250
Max. Turning Dia.*	mm	350
Max. Turning Length	mm	2000
Travel (X / Z)	mm	185/2000
Rapid Feed (X / Z)	m/min	20
Chuck Size	mm	250 x 3
Spindle Power (Fanuc)	kW	11/15(P)
Spindle Bore	mm	90
Spindle Nose		A2-8
Weight (Approx)	Kg	-

Components

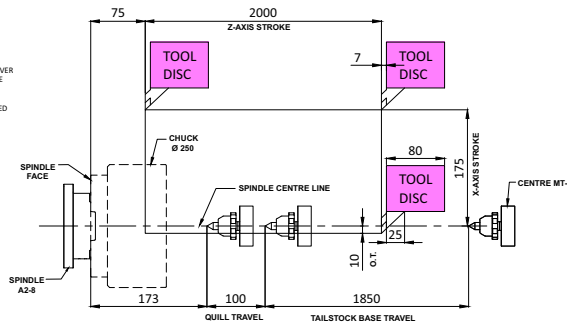


*Max. Turning Dia is For Limited Length

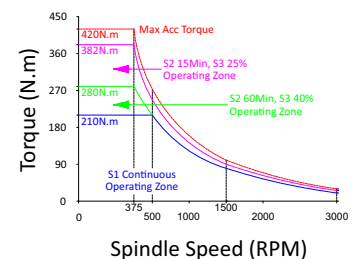
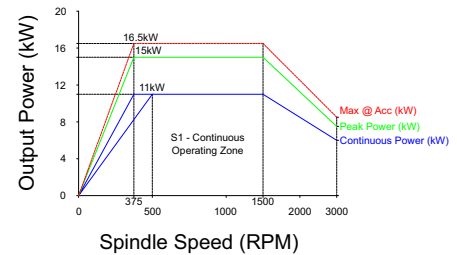
Tool Interference Diagram



Machining Range



Power & Torque Diagram



STANDARD

- Roller Guide Ways
- AC Spindle Drive & AC Servo Drive
- Machine with Tail Stock
- Hydraulic Chuck
- Bi-directional Electro Mechanical Turret or Hydraulic Turret
- Hydraulic Unit
- Coolant System
- Centralized Lubrication System
- Turning Tool Blocks
- Boring Bar Blocks
- Patrol Light
- Digital Tool Display
- Foot Switch

OPTIONAL

- Chip Conveyor
- Bar Feeder
- Bar Puller
- Live Tooling
- Stabilizer
- Hydraulic Collet Chuck
- Auto Door
- Oil Skimmer
- Steady Rest
- Tooled Up Solution
- Tool Probe
- Work Probe

LARGE SERIES MACHINE CONFIGURATIONS

DESCRIPTION	UNIT	MONO 1000	MONO 1000 SUPER
CAPACITY			
Swing Over Carriage	mm	Ø 250	Ø 250
Maximum Turning Dia.*	mm	Ø 350	Ø 350
Swing Over Bed	mm	Ø 500	Ø 500
Maximum Turning Length	mm	1025	1025
Distance Between Center	mm	1070	1070
SLIDES			
Cross (X axis) Travel	mm	185	185
Longitudinal (Z axis) Travel	mm	1025	1025
Rapid Feed (X axis)	m/min	24	24
Rapid Feed (Z axis)	m/min	24	24
MAIN SPINDLE			
Spindle Nose	–	A2-6	A2-8
Spindle Bore	mm	Ø 63	Ø 90
Max. Bar Capacity	mm	Ø 51	Ø 75
Chuck Size	mm	Ø 200 x 3 Jaw	Ø 250 x 3 Jaw
Speed Range	rpm	50 – 3500	50 – 2500
Full Power Range	rpm	750 – 1750	750 – 1750
Spindle Motor (Continues Rating)	KW	11 / 15	11 / 15
Spindle Motor (15min. Rating)			
TURRET			
Number of Stations	No.	8	8
Tool Size	mm	25 x 25	25 x 25
Max. Boring Bar Capacity	mm	Ø 40	Ø 40
TAIL STOCK			
Quill Tapper	–	MT 5	MT 5
Quill Diameter	mm	Ø 80	Ø 80
Quill Stroke	mm	100	100
ACCURACY			
Positioning Accuracy	mm	0.008	0.008
Repeatability	mm	0.007	0.007
OTHER DATA			
Weight (Approx.)	kg.	5100	5200
Dimensions (W x D x H)(Approx.)	mm	3975x2195X2000	3975X2195x2000
SYSTEM			
Fanuc	–	OI TF PLUS	OI TF PLUS
Siemens	–	828 D	828 D



MONO 1200
**MONO 1200
SUPER**
MONO 1500
**MONO 1500
SUPER**

Ø 250	Ø 250	Ø 250	Ø 250
Ø 350	Ø 350	Ø 350	Ø 350
Ø 500	Ø 500	Ø 500	Ø 500
1225	1225	1500	1500
1270	1270	1545	1545

185	185	185	185
1225	1225	1500	1500
24	24	20	20
24	24	20	20

A2-6	A2-8	A2-6	A2-8
Ø 63	Ø 90	Ø 63	Ø 90
Ø 51	Ø 75	Ø 51	Ø 75
Ø 200 x 3 Jaw	Ø 250 x 3 Jaw	Ø 200 x 3 Jaw	Ø 250 x 3 Jaw
50 – 3500	50 – 2500	50 – 3500	50 – 2500
750 – 1750	750 – 1750	750 – 1750	375 – 1500
11 / 15	11 / 15	11 / 15	11 / 15 (P)

8	8	8	8
25 x 25	25 x 25	25 x 25	25 x 25
Ø 40	Ø 40	Ø 40	Ø 40

MT 5	MT 5	MT 5	MT 5
Ø 80	Ø 80	Ø 80	Ø 80
100	100	100	100

0.008	0.008	0.008	0.008
0.007	0.007	0.007	0.007

5400	5500	-	-
4220x2195x2000	4220x2195x2000	-	-

OI TF PLUS	OI TF PLUS	OI TF PLUS	OI TF PLUS
828 D	828 D	828 D	828 D



*Max. Turning Dia is For Limited Length

MONO 2000

**MONO 2000
SUPER**

Ø 250	Ø 250
Ø 350	Ø 350
Ø 500	Ø 500
2000	2000
2045	2045

185	185
2000	2000
20	20
20	20

A2-6	A2-8
Ø 63	Ø 90
Ø 51	Ø 75
Ø 200 x 3 Jaw	Ø 250 x 3 Jaw
50 – 3500	50 – 2500
750 – 1750	375 – 1500
11 / 15	11 / 15 (P)

8	8
25 x 25	25 x 25
Ø 40	Ø 40

MT 5	MT 5
Ø 80	Ø 80
100	100

0.008	0.008
0.007	0.007

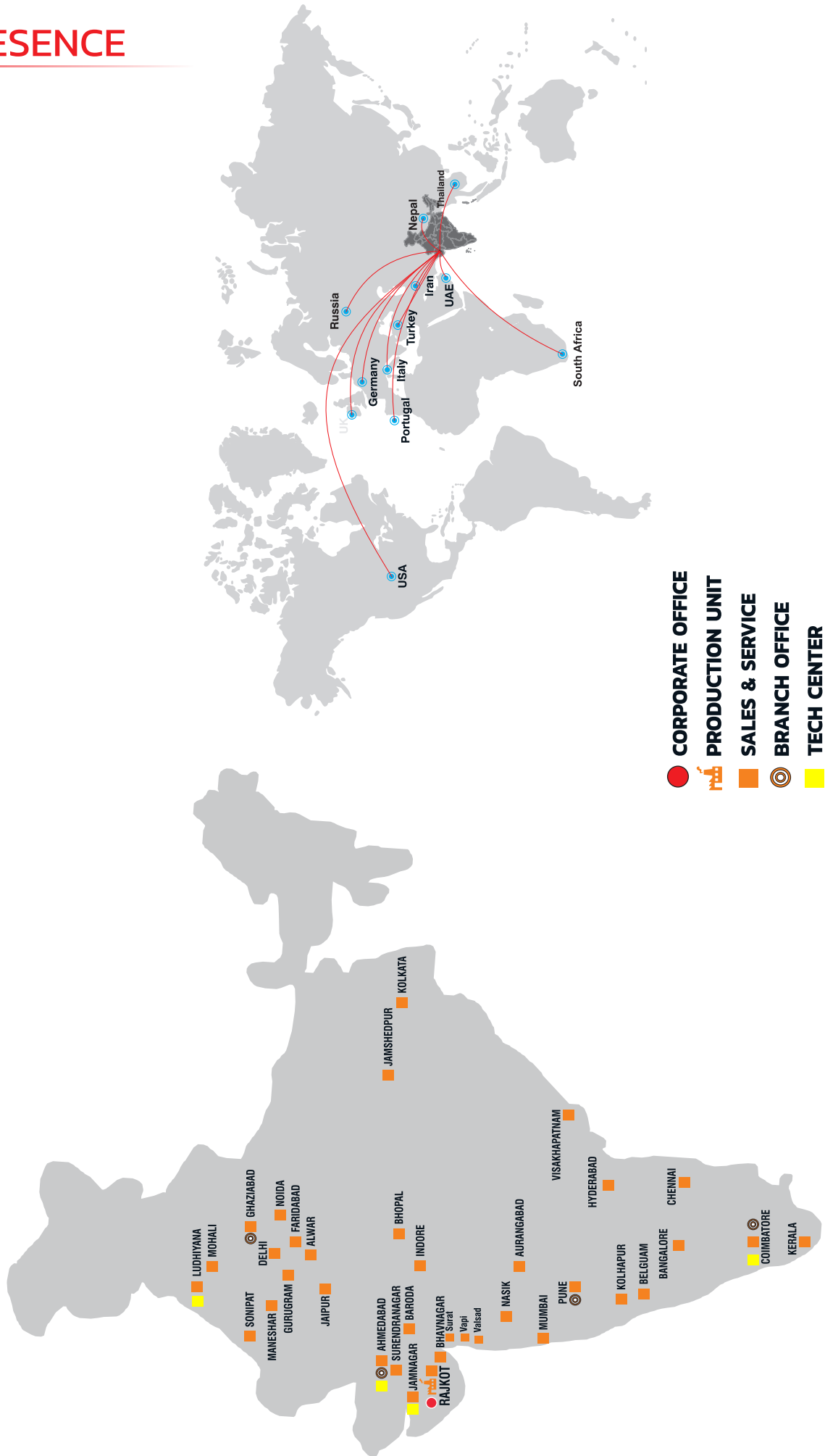
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–	–

OI TF PLUS	OI TF PLUS
828 D	828 D



*Max. Turning Dia is For Limited Length

OUR PRESENCE



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.