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 **IMTS2018** | 10-15th
CHICAGO, USA | SEPTEMBER

EAST BUILDING, LEVEL TWO



Marshall

SUPER- OPTIMIZED **TURNMILLING**



TURNMILLING - BETTER THAN TURNING + VMC

TM 400 COMPACT SERIES



**60 Degree
True slant bed Structure
with "Torque Tube" for
additional rigidity**



SPECIAL FEATURES:

- German design, Best compact Turnmill center made in India.
- Very rigid single piece casting of bed.
- Very compact design with floor-space of only 2.1 X 1.25 meter
- Biggest X/Z stroke for this size of machines.
- 60 Degree True slant bed design.
- Small distance between operator and chuck for easy loading.
- Heavy duty roller LM Guideways for Rigidity, Long Life & Accuracy.
- 12 position, fast servo turret (Barruffaldi) for toolchange within 0.2 seconds.

ADVANTAGES OF MILTURN TM 400:

- Turnmilling is an extremely important technology in today's highly competitive environment as it saves manpower and machinery (mostly VMCs) used to drill, mill & tap after turning of component on CNC Lathe.
- Complete job finished in one setup resulting in higher accuracy.
- TM 400 offers German Quality at Indian price.

SPECIFICATIONS

Max. Swing Diameter	400 mm
Max. Turning Diameter	280 mm
Max. Turning Length	410 mm
Stroke X/Y (Option)/Z	X200/ Z515
Rapid Speed X/Z	18 /24
Max. Speed	4000 rpm
Chuck Size	200 mm
Spindle Power (Cont.)	11 KW
Spindle Torque	96 NM
Taper in Tail stock Quil	MT 4
Quill Diameter	60
Stroke Body	500 mm
Number of Tools	12
Tool Holder	VDI 30
Rotating Tool	12
Max. Speed of Rotating Tools (Std)	6000 rpm
Max. Speed of Rotating Tools (Opt)	20000 rpm
Weight	4000 Kg
Dimensions	2.1 X 1.35 X 1.8m

TMH HEAVY DUTY TURNMILL SERIES

Our design, manufacturing processes & selection of finest machine elements from the best manufacturers in the world ensure the following;

- **RIGIDITY of Bed & Base**
- **RIGIDITY of Head & Spindle Assembly**
- **RIGIDITY of Tailstock**
- **RIGIDITY of LM Guideways**



This Attribute of RIGIDITY is present in even our smallest models because RIGIDITY is vital for:
PRODUCTIVITY | ACCURACY | SURFACE FINISH | TOOL LIFE

SPECIFICATIONS

MODEL	TMH-20	TMH-25	TMH-30
CAPACITY			
Swing Over Carriage Cover (mm)	595	735	815
Maximum Turning Dia. (mm)	350	400	500
Maximum Turning Length (mm)	700/1000/1500	700/1000/1500/ 2000	700/1000/1500/ 2000/2500/3000
MAIN SPINDLE			
Spindle Nose (Standard)	A2-8	A2-8	A2-11
Front Bearing Bore (mm)	110	130	150
Maximum Bar Capacity (Std.) (mm)	63	75	90
SPINDLE DRIVE			
Spindle Motor rated power (KW)	11/15	11/15(17/22)	17/22(18.5/25)
Inf. Variable speed range (rpm)	50-3000	50-2800	50-2000
RAPID TRAVERSE			
STANDARD			
X-axis (m/min.)	24	20	15
Z-axis (m/min.)	24	20	15
TAILSTOCK			
Taper in Quill (mm)	MT-5	MT-5	MT-6
Adjustable Thrust (Max.)	600	600	750
TOOL TURRET			
No. of Stations (Std.) -Baruffaldi	12	12	12
Tool Cross Section (mm)	25X25	32X32	32X32
Max. Boring Bar Dia.	40	50	50
POSITIONING REPEATABILITY			
X-axis	±1.5 Microns	±1.5 Microns	±1.5 Microns
Z-axis	±2 Microns	±2 Microns	±2 Microns
CNC CONTROLS:			
SIEMENS 828D (SL)/ FANUC Oi mate			
TD Weight (approx.) (Kg)	5100/5700/7000	6000/7000	7500/8500/10000/ 11500/13000/14500

Note: Product improvement is a continuous process at "Marshall".
Design & Specifications are therefore, subject to change, without prior notice.

TWINTURN-TM

DOUBLE HEAD DOUBLE TURRET CNC TURNMILL CENTRES



The '2 in 1' Turnmill Centres designed to meet the REAL needs of Component Manufacturers:

- Saving in Space • Saving in Manpower • Saving in Shop Floor Material Movement

SPECIFICATIONS

MODEL CAPACITY	TWINTURN 8TM	TWINTURN 12TM	TWINTURN XLTM
Swing Over Carriage Cover (mm)	360	430	600
Maximum Turning Dia. (mm)	260/320	400	550
Maximum Turning Length (mm) with Tailstock (without Tailstock in case of 12T & XL) mm	350	400	200
MAIN SPINDLE			
Spindle Nose (Standard)	A2-6	A2-8	A2-11
Front Bearing Bore (mm)	100	130	150
Maximum Bar Capacity (Std.) (mm)	52	66	90
SPINDLE DRIVE			
Spindle Motor rated power (KW)	11/15	12/16	18.5/25
Inf. Variable speed range (rpm)	100-3200	50-2500	30-1800
RAPID TRAVERSE			
STANDARD			
X-axis (m/min.)	24	20	20
Z-axis (m/min.)	24	20	20
Tool TURRET			
No. of Station (Std.) -Baruffaldi	12	12	12
Tool Cross Section	25x25	32x32	32x32
Max. Boring Bar Dia.	40	50	50
POSITIONING REPEATABILITY			
X-axis	±1.5 Microns	±1.5 Microns	±1.5 Microns
Z-axis	±2 Microns	±2 Microns	±2 Microns
CNC Controls: Siemens 828D (SL)/ FANUC Oi mate TD			
Weight (approx.) Kg	6500	8000	15000



Head Office & Works
C 86, Phase-V, Focal Point, Ludhiana 141 010
Phone: +91 161 5012406, 5012407, 5019648

National Sales, Services & Technology Center
75-B, Sector 5, IMT Manesar, Distt. Gurgaon
Phone: +91-0124-4241813-15 | Cell: +91-96502 93942

Automated Solutions Division (Unit II)
D-116A, Ph.-V, Focal Point, Ludhiana-141010

headoffice@marshallcnc.com | cncsales@marshallcnc.com
marshallcnc.com | marshallcnc.in | marshallautomation.in



Smart CNC Automation & Gauging Solutions

Regd. Office
415, Lakehill Court, Johns Creek, GEORGIA 30022 (USA)
Phone: 404-394-6678

info@marshallautomationamerica.com
marshallautomationamerica.com