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World's #1 International Manufacturing
Technology Show of the year.





SUPER- OPTIMIZED TURNMILLING





TM 400 COMPACT SERIES



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







SPECIAL FEATURES:

- German design, Best compactTurnmill center made in India.
- Very rigid single piece casting of bed.
- Very compact design with floor-space of only 2.1 X1.25meter
- 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

SI ECII ICATIONS	
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 ofTools	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	ТМН-30
CAPACITY	505	775	015
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		2000	2000/2500/3000
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
DADID TO AVERSE			
RAPID TRAVERSE STANDARD			
X-axis (m/min.)	24	20	15
Z-axis (m/min.)	24	20	15
Z-dxi3 (11/111111.)	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
Z dAIS	12 1 11010113	<u> </u>	12 1 1101 0113
CNC CONTROLS:			
SIEMENS 828D (SL)/ FANUC 0i 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

TWINTURN 8TM	TWINTURN 12TM	TWINTURN XLTM
360	430	600
260/320	400	550
350	400	200
A2-6	A2-8	A2-11
100	130	150
52	66	90
11/15	12/16	18.5/25
100-3200	50-2500	30-1800
24	20	20
24	20	20
12	12	12
25x25	32×32	32x32
40	50	50
±1.5 Microns ±2 Microns 6500	±1.5 Microns ±2 Microns 8000	±1.5 Microns ±2 Microns
	260/320 350 A2-6 100 52 11/15 100-3200 24 24 24 24 25x25 40 ±1.5 Microns ±2 Microns	360 430 260/320 400 350 400 A2-6 A2-8 100 130 52 66 11/15 12/16 100-3200 50-2500 24 20 24 20 25x25 32x32 40 50 ±1.5 Microns ±2 Microns ±2 Microns



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