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Where Excellence leads

EMPIRE MACHINE TOOLS

(An enterprise of **EMPIRE INDUSTRIES LTD.**)

*One stop solution for state of art Metal Cutting &
Metal Forming / Testing Machines*



Since 1960



Empire Machine Tools

Empire House, Ground Floor,

414, Senapati Bapat Marg, Lower Parel, Mumbai – 400 013.

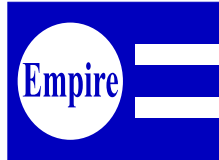
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Email: sales@empiremt.com

website: www.empiremt.com

WALDRICH COBURG

Precision by Experience



Where Excellence leads

**GERMANY****DOUBLE COLUMN PORTAL TYPE MACHINING CENTRE**

TAURUS 25 (With fixed cross-rail)		<u>TECHNICAL DATA TAURUS 30 GEMINI</u>	
Table (mm)	2000x4000	Travels	
Clearance height (mm)	2000	X-Axis 4.300 mm / Option 7.200 mm	
Clearance width (mm)	2500	Y-Axis 4.000 mm	
		Z-Axis 1.500 mm	
Continuously feeding C-axis (deg.)	+/- 200	Max. feed 40 m/min in X / Y / Z	
Power max. (kW)	63	Rapid 40 m/min in X / Y / Z	
Torque max. (Nm)	1500	Acceleration 3 m/s ² in X / Y / Z	
RPM max. (min ⁻¹)	6000	Table 3.300 mm x 4.500 mm (7.250 mm)	
Travel speed X / Y / Z (m/min)	30	Table load 5.000 kg/m ²	
Hydrostatic guideways for Axes	X / Y / Z	Option turning table Diameter 3.300 mm; Load 12.000 kg, 120 min-1	
Tool pockets in ATC	100	Main drive 6.000 min-1; 45 kW / 63 kW 1.250 Nm / 1.500 Nm (S1 / S6)	
Spindle storage	4	Motor spindle 20.000 min-1; 30 kW; 70 Nm	
Vertical-horizontal and universal spindle units automatically exchangeable		Tool changer 60 / 120 places	
Coolant system tank [liters]	1000		

Werkzeugmaschinenfabrik WALDRICH COBURG GmbH

Hahnweg 116 · 96450 Coburg / Germany

Website - www.waldrich-coburg.de

YOUR GRINDING PARTNER FOR MAKE IN INDIA

RELIABLE PRECISION AND EFFICIENT

- **CNC CYLINDRICAL GRINDERS** **Ø 275 ~ 1000mm & ABC 600mm ~ 8m**
- **CNC SURFACE GRINDERS** **TABLE 200mmX400mm ~ 10mX6m**
- **CNC VERTICAL GRINDERS** **TABLE Ø 600MM ~ 1500MM**
- **CNC UNIVERSAL VERTICAL** **TABLE Ø 600MM ~ 1800MM**



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KOREA

Bringing Dynamic Productivity, The world wide Leader in Machine Tool.



CNC Vertical
Turning Lathe

Turning Dia. 1,2mtr-16mtr
Turning Height 1mtr-6mtr
Max. load on table 4.5T-145T

CNC Horizontal
Boring &
Milling Machine

Spindle dia 110-spindle dia.150
X-axis 1.6mtr-5mtr
Y-axis 1.5mtr-3mtr
Max. Load on Rotary Table 3T-20T

CNC Vertical Turning Lathe

Turning Dia. 1.2 mtr. – 16 mtr.
Turning Height 1 mtr. – 6 mtr.
Max. Load on Table 4.5T – 145T

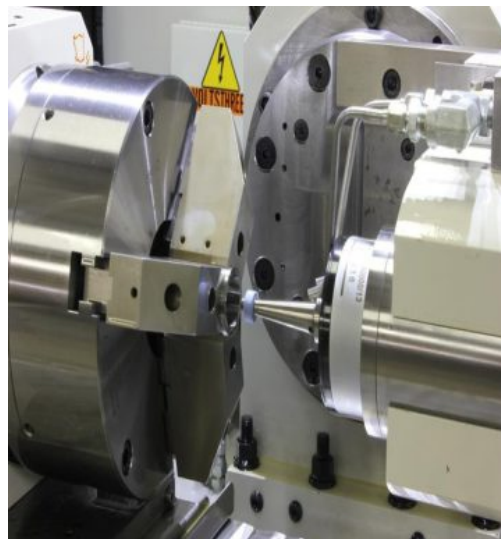
CNC Horizontal Boring & Milling Machine

Spindle dia. 110 – spindle dia. 150
X-axis 1.6 mtr. – 5 mtr.
Y-axis 1.5 mtr. – 3 mtr.
Max. Load on Rotary Table 3T – 20T

PROVEN USERS

- PEEKAY STEEL LTD. • L&T
- AMS MACHINING GROUP
- SHANTI GEARS • GODREJ & BOYCE
- MRF • TOSHIBA • JSW
- BHARAT FORGE • ULTRA ENGINEERS
- CATERPILLAR • MEIL
- WHEELS INDIA

POWERFUL SPINDLE
HEAVY DUTY MACHINING
HIGH ACCURACY, SUPERIOR RELIABILITY
USER FRIENDLY OPERATING SYSTEM



Complete Range of Thread Grinding Solutions



External
Thread
Grinding
Machines

MACHINE SPECIFICATIONS	GS:TEM	GS:TE240-360	GS:TE400-750	GS:TE670-750	GS:TE400-2000	GS:TE445-4000
Length between centre (0° Helix)	100 mm	360 mm	750 mm	750 mm	2,100 mm	4,000 mm

Internal Thread Grinding Machines

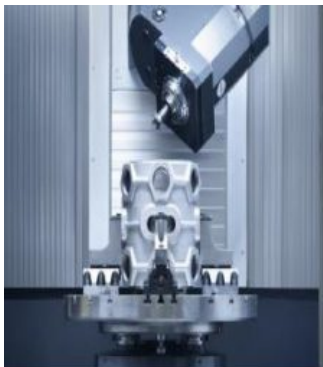
MACHINE SPECIFICATIONS	GS:TI280	GS:TI400	GS:TI670
Maximum Internal Grind Length	280 mm	400 mm	670 mm

STANDARD FEATURES: High Precision Work head, Wheel Helix, Closed loop Feedback, CNC Servo System
Motorized Wheel Spindle, Diamond Roll Truing, Automatic Wheel balancer, Cast Polymer Base

OPTIONAL FEATURES: Smart Form Software, Touch Dress, Part Probe & Automation

Drake Manufacturing LLC
4371 N. Leavitt Road
Warren, Ohio 44485 USA
Website – www.drakemfg.com

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T MULTI PROCESS - SPECS

	T 36	T 30	T 22
- X Axis travel (length) in mm	3600	3000	2200
- Y Axis travel (cross) in mm	2300	2000	1600
- Z Axis travel (vertical) in mm	1900	1700	1500
- Head tilting range (B – A) in °	B: -15° / +195° - A: -45° / +135°		
- C Axis turning range in °	360°		
- Maximum swing diameter in mm	3600	3000	2200
- Table dimensions in mm	Ø 2000	Ø 1800	Ø 1600

GEMINIS

MAHER HOLDING

ALL IN ONE MACHINE

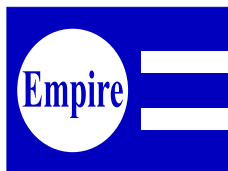


SPAIN



ALL in ONE Machine / All proceses: Turning, Milling, Boring, Grinding & Others under request.
Under the name of GEMINIS and as a leading brand with more than 60 years' experience and acknowledged prestige, we develop horizontal and multi-process lathes with cutting-edge technology

Empire Machine Tools



ITALY

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BUFFOLI has been a European Leader in the Development of turnkey solutions for machining parts which require multi- sided machining Processes and precision turning operations. Our process integration has resulted in **the maximum level of productivity, flexibility, reliability, and accuracy,**



GERMANY



Vorteil / Advantage SCUDDING®:

SCUDDING® 40 s

Wälzstoßen/
Gear Shaping 180 s

- > Faster process than Shaping Process (4 to 6 times)
- > Dry cutting Process
- > Machine shall be configured based on productivity
- > Corrections to part shall be possible based on heat treatment results
- > High cutting force and high gear quality (DIN 5-6) & a low (Rz 2-3).
- > Better tool life than shaping process
- > Machine shall be configured to cut both external & Internal Gears
- > Online MOB measurement is possible
- > Other additional operations shall be added
- > Hard scudding is available for part specific

BRANCHES

•BENGALURU •CHENNAI •DELHI •HYDERABAD •KOLKATA •AHMEDABAD •PUNE