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

 **IMTS2018**
CHICAGO, USA

10-15th
SEPTEMBER

EAST BUILDING, LEVEL TWO



World's **Best** Turning Solutions (Patented) for high volume 'Chucking Jobs.

Machining time/setup < 30 Sec.

RAPIDTURN



Machining time/setup > 30 Sec.



TWINTURN UBER

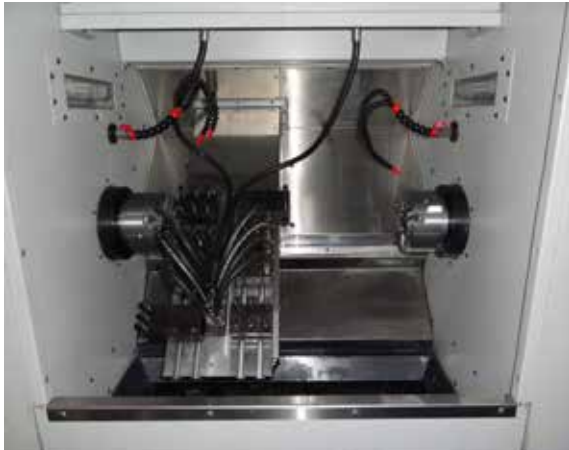
uber-
/'u:bə/

(adj.):
a person or thing that exceeds the
norms or limits of its kind or class

definitely
2 Spindles are *uber* better than 1

MACHINING TIME / SETUP < 30 SEC.

RAPIDTURN SERIES



ADVANTAGES

- NO IDLE TIME resulting in higher productivity
- WHILE MACHINING is going on at one head, the operator unloads completed job and clamps fresh job at the second head.
- TWO SET UPS available on one machine one half of a job can be completed on one spindle while the second half be completed on other spindle.
- ONLY ONE OPERATOR required & space taken is similar to be one machine.
- LINEAR TOOLING SYSTEM used on "MARSHALL" DOUBLE SPINDLE MACHINES reduces machining time because of faster positioning of tools compared to tool turret.

Examples of high volume Jobs suitable for RAPIDTURN & Twinturn UBER.



Bearing Ring Door Roller Hard Turned (Bored) Gear Bevel Pinion Shocker Bolt Threaded Ring (LCV) Gear Blank LPG Valve Fan Cover

SPECIFICATIONS

Model	SL-11 (D)	SL-12 (D)	SL-14(D)	SL-16(D)
CAPACITY				
Swing Over Carriage Cover (mm)	310	360	400	520
Maximum Turning Dia. (mm)	135	210	260	400
Maximum Turning Length (mm)	100	125	150	200
Chuck Size (mm)	135	165	200	315
MAIN SPINDLE				
Spindle Nose (Standard)	A2-4	A2-5	A2-6	A2-8
Front Bearing Bore (mm)	75	85	100	110
Maximum Bar Capacity (Std.) (mm)	32	42	52	63
SPINDLE DRIVE				
Spindle Motor rated power (KW)	5.5/7.5	7.5/11	11/15	11/15
Inf. Variable speed range (rpm)	100-4500	100-4000	100-3500	50-2500
RAPID TRAVERSE				
STANDARD				
X-axis (m/min.)	24	24	20	20
Z-axis (m/min.)	24	24	20	20
POSITIONING REPEATABILITY				
X-axis (m/min.)	± 1.5 Microns	± 1.5 Microns	± 1.5 Microns	± 1.5 Microns
Z-axis (m/min.)	± 2 Microns	± 2 Microns	± 2 Microns	± 2 Microns
CNC Controls:	SIEMENS 828D(SL)/ FANUC Oi mate TD	SIEMENS 828D(SL)/ FANUC Oi mate TD	SIEMENS 828D(SL)/ FANUC Oi mate TD	SIEMENS 828D(SL)/
Weight (approx.) (Kg)	3600	4000	5000	6500

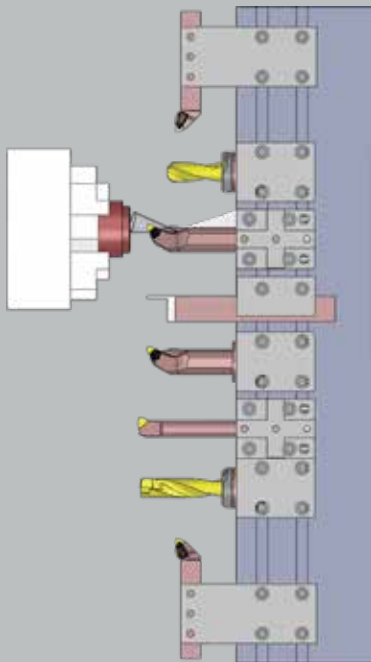
Note: Product improvement is a continuous process at "Marshall" Design & Specifications are therefore, subject to change, without prior notice.

MACHINING TIME / SETUP > 30 SEC.

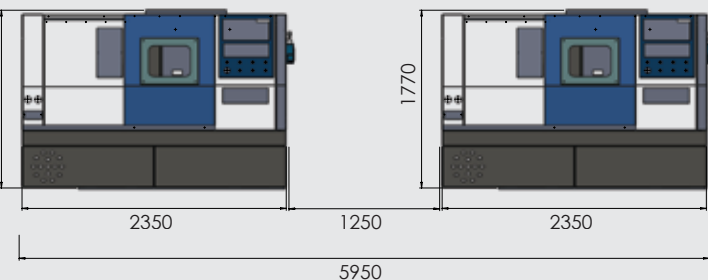
TWINTURN UBER



**Upto
8 Tools
per
spindle**



**MOST COMPACT FOOT PRINT
Twinturn UBER**



Competitors' Single Spindle Machines

THE Machine for super-optimized Turning

- 60 Degree Slant Bed
- Monoblock casting with 'Harcrete'
- 5500 Rpm & 30m/min. Rapids
- Upto 8 tools per spindle with option of through coolant in selected block.

Twinturn UBER

has the highest specifications, features & performance among CNC chuckers.

CAPACITY

Swing Over Carriage Cover (mm)	360
Maximum Turning Dia. (mm)	250
Maximum Turning Length (mm)	200
Maximum Boring Length (mm)	150

MAIN SPINDLE

Spindle Nose (Standard)	A2-5
Front Bearing Bore (mm)	85
Maximum Bar Capacity (Std.) (mm)	40

SPINDLE DRIVE

Spindle Motor rated power (KW)	7.5/11
Inf. Variable speed range (Std.) (rpm)	100-4500
Inf. Variable speed range (Opt.) (rpm)	100-5500

LINEAR SLIDE

X-axis Stroke (mm)	500
Maximum No. of tools /side	8
Tool Shank Size	25x25
Maximum Tool Bore Size (mm)	40

RAPID TRAVERSE

STANDARD	
X-axis (m/min.)	30
Z-axis (m/min.)	30

POSITIONING REPEATABILITY

X-axis	± 1.5 microns
Z-axis	± 2.0 microns

CNC Controls: SIEMENS 808D / 828D / FANUC 0iTF

Weight (approx.) (Kg) 4500

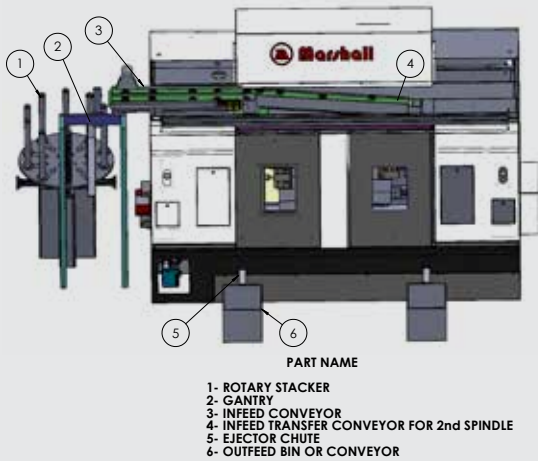
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UBER is available with 2 patented technologies:

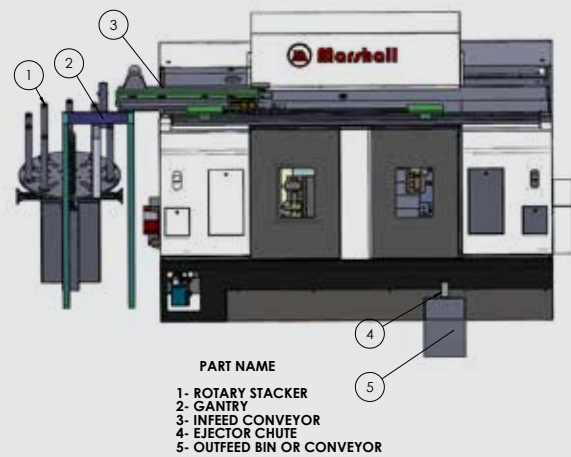
- 1 **SmartFlow:** Coolant System for max. pressure and flow
 - Increase Insert Life
 - Increase Cutting Parameters for higher productivity
- 2 **SmartLoad:** Compact & Economical Autoloading & Unloading System
 - Fastest Loading/Unloading time
 - Increase OEE by 40%

TWO AUTOMATION OPTIONS

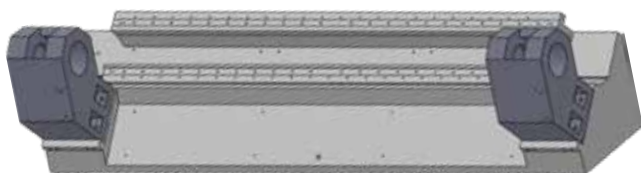
UBER with SmartLoad 10-10



UBER with SmartLoad 10-20



Design Registered by Patent Office of India



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