

# **RAPIDTURN** **NEO**

*Double Head Single Slide CNC Turning Centre*

SmartFlow  
Coolant  
System

Preloaded  
Machine  
Monitoring

Thermastable  
Technology

**HIGHER CUTTING  
SPEEDS & TOOL LIFE**

**HIGHER OEE**

**HIGHER ACCURACY**



***Most Productive & Cost effective Turning  
Solutions for mass produced chucking jobs***

**TRANSFORMING Manufacturing... *Smartly!***

# TWO SPINDLES ARE BETTER THAN ONE

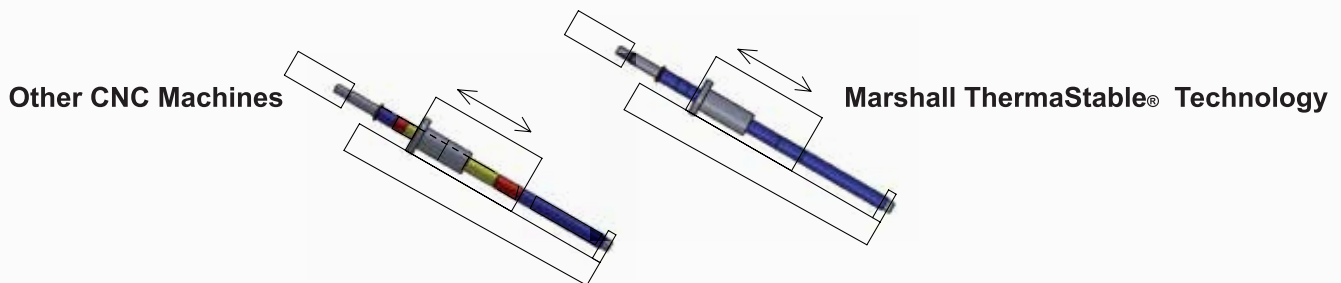
## ADVANTAGES

- 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 second head.
- TWO SET UPS available on one machine one half of the 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.

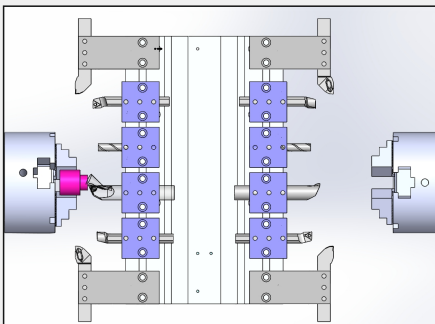


## #1 THERMASTABLE TECHNOLOGY

**Marshall's** 'ThermaStable' technology (introduced for the 1st time in India) results in Zero Thermal Growth of Ballscrew. **This ensures no variation in size after machine is re-started after stoppage.**



## #2 SmartFlow



Upto 6 Tools per Spindle.  
High Pressure coolant through two tool blocks on each side.



**SmartFlow** ensures that the Block where tool is performing machining operation gets 100% of pump flow & pressure.

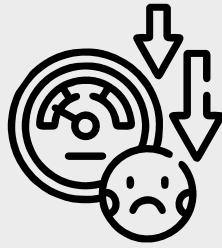
**SmartFlow** ensures upto 20% Higher cutting speeds & 20% increase in tool life



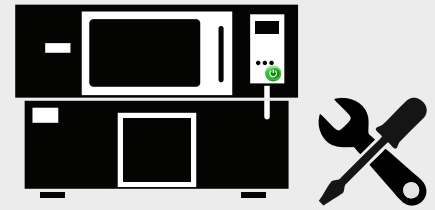
# THREE PROBLEMS OF MACHINE SHOPS



Inaccurate  
Manual Data



Poor Operator  
Performance



Unscheduled Stoppages



## SOLUTION

### SmartFAC-Universal

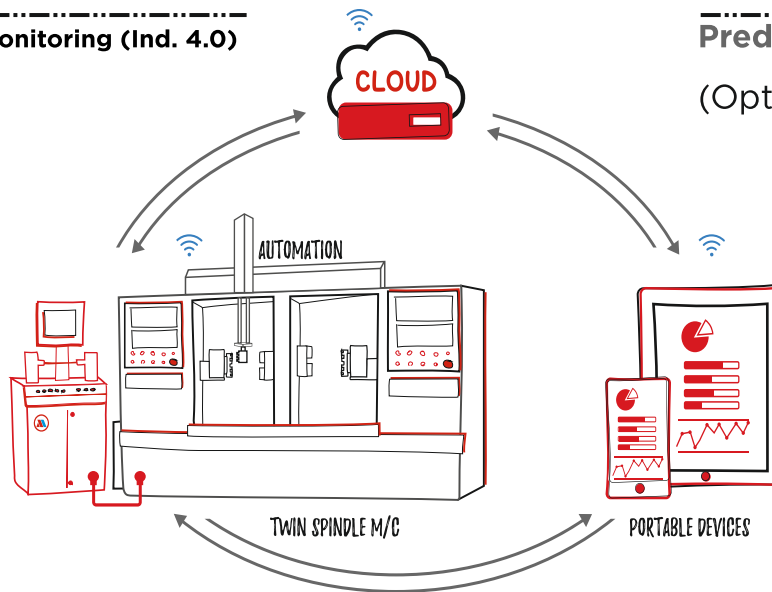
Cloud based Machine Monitoring (Ind. 4.0)

(Preloaded)

### SmartPredict

Predictive Maintenance

(Optional)



## RESULTS



18%

Increase in  
Productivity



99%

Data  
Accuracy



3

Months  
Return on  
Investment



30%

Reduction in  
accidents & tool  
breakage in  
Night Shift

# #1 SELLING CNC TURNING CENTER IN INDIA FOR



LPG Valves



Ceiling Fan Covers



Exhaust Fan Covers



Sprockets



Gear Blanks

## Specifications

Model	SL-11(D)	SL-12(D)	SL-14 (D)	SL-16 (D)
<b>CAPACITY</b>				
Swing Over Bed (mm)	310	350	450	450
Maximum Turning Dia. (mm)	135	210	260	350
Maximum Turning Length (mm)	100	125	150	200
Stroke (mm)	300	300	600	900
<b>MAIN SPINDLE</b>				
Spindle Nose (Standard)	A2-4	A2-5	A2-6	A2-8
Front Bearing Bore (mm)	80	85	100	110
Maximum Bar Capacity (Std.) (mm)	32	38	45	55
(Optional) (mm)	32	42	52	64
<b>SPINDLE DRIVE</b>				
Spindle Motor rated power (KW) Fanuc	5.5/7.5	7.5/11	7.5/11	11/15
Siemens		9/12	9/12	12/16
Inf. Variable speed range (rpm)	100-4500	100-4000	100-3500	50-2800
<b>RAPID TRAVERSE</b>				
STANDARD				
X-axis (m/min.)	24	24	20	20
Z-axis (m/min.)	24	24	20	20
<b>POSITIONING REPEATABILITY</b>				
X-axis	± 1.5 Microns	± 1.5 Microns	± 1.5 Microns	± 1.5 Microns
Z-axis	± 2 Microns	± 2 Microns	± 2 Microns	± 2 Microns
CNC Controls: SIEMENS / FANUC 0iTF				
Weight (approx.) (Kg)	4000	4500	6000	7000

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



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