

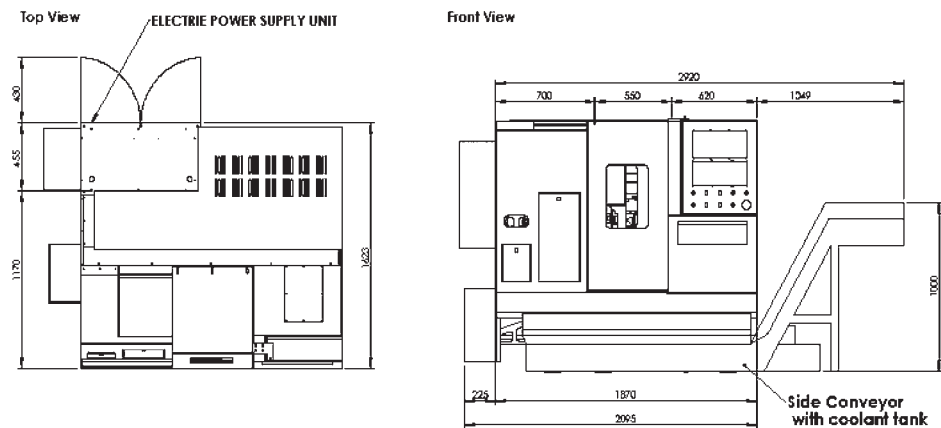


SPECIFICATIONS

		Citius 2540	Altius 2540	Fortius 3050
CAPACITY				
Swing Over Carriage Covers	(mm)	500	500	520
Swing Over Cross slide	(mm)	290	290	310
Recommended Turning Dia	(mm)	200	200	250
Max. Turning Dia	(mm)	250	250	300
Max. Turning Length	(mm)	400	400	500
Chuck Dia	(mm)	165	165	200
MAIN SPINDLE				
Spindle Nose (Std)		A2-5	A2-5	A2-6
Spindle Brg. Bore (Front)	(mm)	85	85	100
Max. Speed	(Rpm)	5000	5000	4000
Max. Bar Capacity (Std.)	(mm)	42	42	52
SPINDLE DRIVE				
Spindle motor rated Power (Cont./30 min Rating)	(KW)	5.5/7.5	5.5/7.5	7.5/11
RAPID TRAVERSE				
X-Axis	(m/min.)	30	30	30
Z-Axis	(m/min.)	30	30	30
TAIL STOCK				
Taper in Quill	(mm)	MT-4	MT-4	MT-4
Adjustable Thrust (Max.)		400	400	500
TOOL TURRET				
No. of Stations (std.)		8	8	8
Tool Cross Section	(mm)	25x25	25x25	25x25
Max. Boring Bar Dia	(mm)	40	40	40
POSITIONING REPEATABILITY				
X-Axis		± 1 Micron	± 1 Micron	± 1 Micron
Z-Axis		± 2 Microns	± 2 Microns	± 2 Microns
CNC Controls: SIEMENS 828D (SL)/FANUC Oi mate TD				
Weight (approx)	Kg	3400	3400	4000

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

External Dimensions



Standard Accessories

- Chip Trolley
- Tail-Stock with hydraulic Quill
- Auto/Manual Coolant System
- Auto Centralized Lubrication
- Electrical Panel with A.C. Unit
- Work Light
- Alarm Light
- Manual Pulse Generator

Optional Accessories:

- Chip Conveyor
- Bar Feeder
- 12 Station Tool Turret
- Tool Pre-setter
- Hydraulic self centring steady rest
- Programmable dual Pressure clamping
- Automatic Door Closer
- Part Catcher
- Hydraulic Collet Chuck
- Bar Puller



THE TRIAD THROWS A NEW LIGHT ON TURNING



Head Office & Works
 C 86, Phase-V, Focal Point, Ludhiana 141 010 India | Phone: +91 161 5012406, 5012407, 5019648
National Sales, Services & Technology Center
 75-B, Sector 5, IMT Manesar, Distt. Gurgaon | Phone: +91-0124-4241813,14,15, | Cell: +91-96502 93942,
Automated Solutions Division (Unit II)
 D-116A, Phase-V, Focal Point, Ludhiana-141010. INDIA

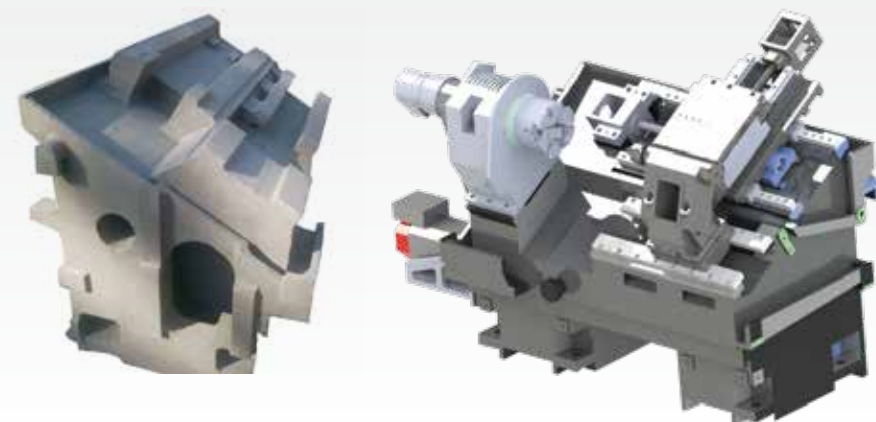
headoffice@marshallcnc.com
 cncsales@marshallcnc.com

marshallcnc.com
 marshallcnc.in
 marshallautomation.in



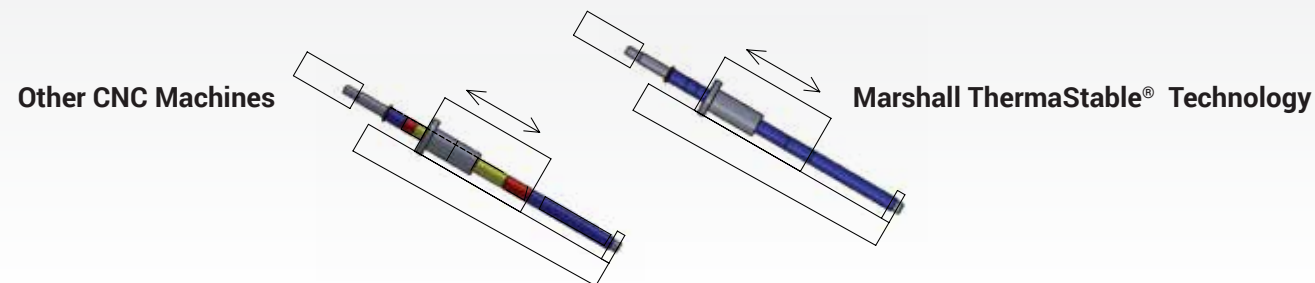


Inspired by the Olympic Motto: Citius- Altius - Fortius (meaning Faster - Higher - Stronger) Marshall has studied the best compact turning centres in the world and created a TRIAD of class leading machines which raise the bar for performance in the three vital areas of SPEED, ACCURACY & RIGIDITY.



The single piece structure (Bed + Base) has 30 degrees slant angle and is made of high grade cast iron for highest rigidity. It is filled with a special epoxy 'Harcrete' for vibration damping to enable heavy cuts with best surface finish & tool life.

One of the major problems in almost all CNC Lathes in the market is variation in size when machine is re-started after stoppage (e.g. Lunch Break). The shift in size before and after stoppage can be between 10-20 microns. This is because the movement of the preloaded nut on the ball screw cause temperature rise which leads to expansion of the ballscrew (Thermal growth). If operator is not experienced & alert, it can result in many jobs being rejected. 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.



Tailstock guideways of most CNC turning centres are of unhardened materials (cast iron or steel). These are easily damaged by denting & wear and lose accuracy. Operators have to struggle to produce jobs within tolerances. For the first time in India, Marshall introduces INDUCTION HARDENED & GROUND Alloy Steel tailstock guideways for very long life & highest accuracy.



Apart from these class leading common features, all three models have some unique features:

Citius 2540

True to its name, Citius 2540 is the '**Fastest**' compact CNC Turning Centre with max. Spindle Speed of 5000 Rpm & X/Z Axis Rapids of 30/30 meters/min. It is the perfect turning solution for all components where most of the diameters are below 25mm, because 20-25% extra productivity can be achieved as compared to competitor machines for some jobs e.g. Two wheeler Shafts, Pump Shafts, Motor Shafts, Aluminium & Brass Components.



Altius 2540

As its name suggests, Altius 2540 is made for '**Higher**' performance in terms of accuracy & surface finish, and is most suitable for 'Hardturning' to replace grinding and also for those un-hardened components which require very close tolerances. It is provided with extra rigid, vibration damping elements & has linear scales which ensure repeatability ± 0.7 Microns.



Fortius 3050

It is the "**strongest**" compact CNC Lathe in India & can achieve a diametric depth of cut of 10mm in single pass. It has an A2-6 Spindle and a maximum turning length of 500 mm. It is provided with 7.5/11 Kw spindle power with full power available at 950 Rpm.

