TWINTURN ULTRA

ULTIMATE TURNING SOLUTION FOR SMALL SHAFTS.

SPECIAL FEATURES

- ***5000*** *Rpm &* ***30/30*** *m/min. X/Z Rapids.*
- *Smart link with Smartcorrect Gauging Station*
- *'ThermaStable' technology ensures No size . variation after stoppage Only machine in India with this feature*
- ***CLAPTECH*** *(**C**losed **L**oop **A**utomated **P**roduction **T**echnology) uses the input from Smartcorrect Digital hybrid Gauging Station*
- *CLAMPSYS for protecting machine from blunt & broken inserts.*

TWINTURN ULTRA

Specifications

CAPACITY	
Swing Over Carriage Cover (mm)	360
Maximum Turning Dia. (mm)	210
Maximum Turning Length (mm) with Tailstock	350
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 (rpm)	100-5000
RAPID TRAVERSE	
STANDARD	
X-axis (m/min.)	30
Z-axis (m/min.)	30
TOOL TURRET	
No. of Stations (Std.)	8
Tool Cross Section	25x25
Max. Boring Bar Dia.	40
POSITIONING REPEATABILITY	
X-axis	± 1 Micron
Z-axis	± 2 Microns
CNC Controls:	
SIEMENS 828D (SL) / FANUC 0i mate	
TD Weight (approx.) (Kg)	4000

Job Examples

2 Wheeler Shaft

Motor Shaft

Marshall Machines (P) ltd.

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

ULTRA

SERIES

INTELLIGENT, SUPERFAST
DOUBLE SPINDLE CNC TURNING CENTRES

RAPIDTURN ULTRA

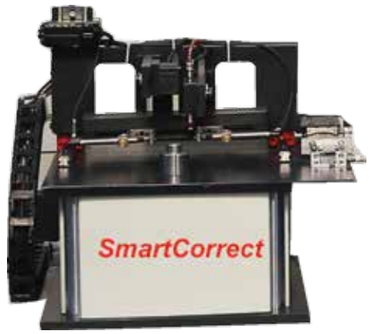
ULTIMATE TURNING SOLUTION FOR SMALL CHUCKING JOBS

- *Super Speed:* ***5500*** *Rpm max. Spindle Speed &* ***30/30*** *m/min X/Z Rapids for highest productivity*
- *Smartlink for connecting to SmartCorrect Digital, Hybrid Gauging Stations*
- *Thermastable Technology for no size variation after stop and start*
- *CLAMPSYS for protecting machine from blunt & broken inserts.*
- *CLAPTECH for auto-analysis of measurements & auto-correction of tool offsets*

THE ART OF TURNING... *intelligently*

SmartCorrect®

Digital Gauging Stations have been developed by Marshall to eliminate the role of operators & inspectors in quality measurement & offset correction. They use hybrid measuring elements like digital touch probes, Lasers & Vision Sensors which are automatically actuated.



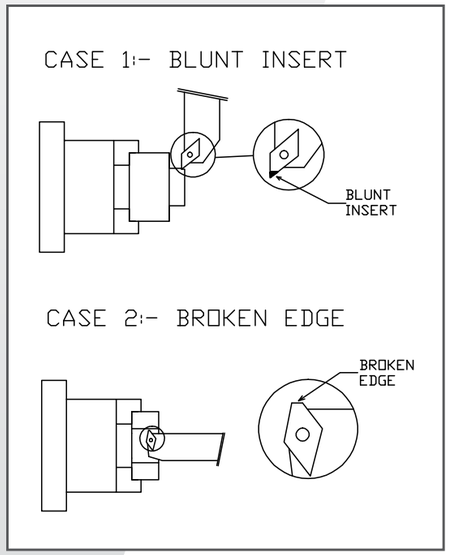
Gauging Station with Touch probes & Laser

SPECIAL FEATURES

Gauging Station with Twin Laser for diameter & ovality measurement

CLAMPSYS®

The Protective Armour for your Machine



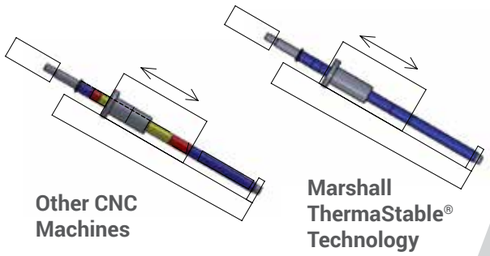
CLAMPSYS®

*(**C**utting **L**oad **A**nalysis **M**achine **P**rotection **S**ystem) is patented technology developed by Marshall to prevent Job rejection and machine accidents because of blunt or broken inserts. CLAMPSYS monitors cutting load during various turning operations and in case of abnormality, it generates alarm & stops machine to prevent damage to job or machine.*

SmartMsg®

for sending information about production, quality & alarm through SMS.

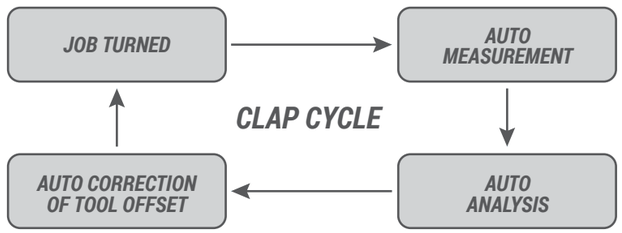
ThermaStable®



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 ballscrew 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 is ensures no variation in size after machine is re-started after stoppage.

*Our Patented **CLAPTECH**® (**C**losed **L**oop **A**utomated **P**roduction **T**echnology) uses our **SmartCorrect** Digital, Hybrid Gauging Stations to measure vital parameters of a turned job and then analyses measured data to auto-correct the tool offsets to ensure ZERO DEFECT Production. This Technoloy ensures a shift from OBQ (Operator Based Quality) to SBQ (System Based Quality).*



RAPIDTURN ULTRA

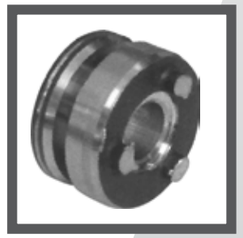
Specifications

CAPACITY	
Swing Over Carriage Cover (mm)	360
Maximum Turning Dia. (mm)	210
MAIN SPINDLE	
Spindle Nose (Standard)	A2-5
Front Bearing Bore (mm)	85
Maximum Bar Capacity (Std.) (mm)	42
SPINDLE DRIVE	
Spindle Motor rated power (KW)	7.5/11
Inf. Variable speed range (rpm)	100-5500
RAPID TRAVERSE	
STANDARD	
X-axis (m/min.)	30
Z-axis (m/min.)	30
POSITIONING REPEATABILITY	
X-axis	± 1 Microns
Z-axis	± 2 Microns
CNC Controls:	
SIEMENS 828D (SL) / FANUC 0i mate	
TD Weight (approx.) (Kg)	4000

Job Examples

Aluminum Piston

LPG Valve



Gear Blank

Bearing Ring