

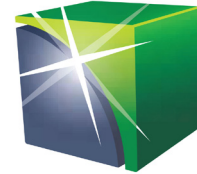
Star NXT Tool and Cutter Grinder



NXT

What's NXT in tool grinding?

Find out at IMTS 2018. The Star NXT Tool and Cutter Grinder will make its debut in North Hall booth 236909.



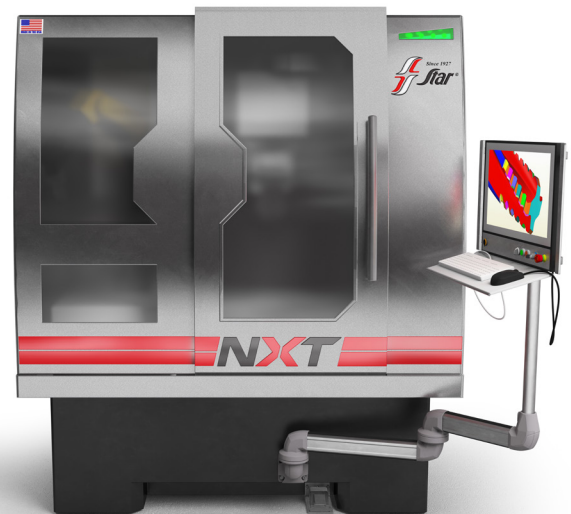
IMTS2018
International Manufacturing Technology Show
September 10 - 15, 2018 · McCormick Place · Chicago

A Common Platform

- Focused design to deliver a maximized grind zone with the most economical footprint
- Travels: X: 500mm [19.7"], Y: 650mm [25.6"], Z: 750mm [29.5"]
- Capable of 15" end work, 10" diameter parts, utilizing up to 8" wheels
- Machine centered wheel changing capability with up to (5) storage locations
- Auto-lube grease system for worry free maintenance
- High resolution linear glass scales
- Linear motors instead of ball screws to eliminate backlash, friction effects, and drive vibration
- 24 hour service response time
- Manufactured in the USA

Flexible Options

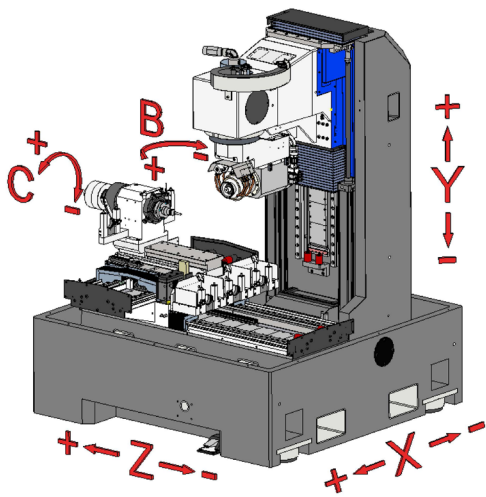
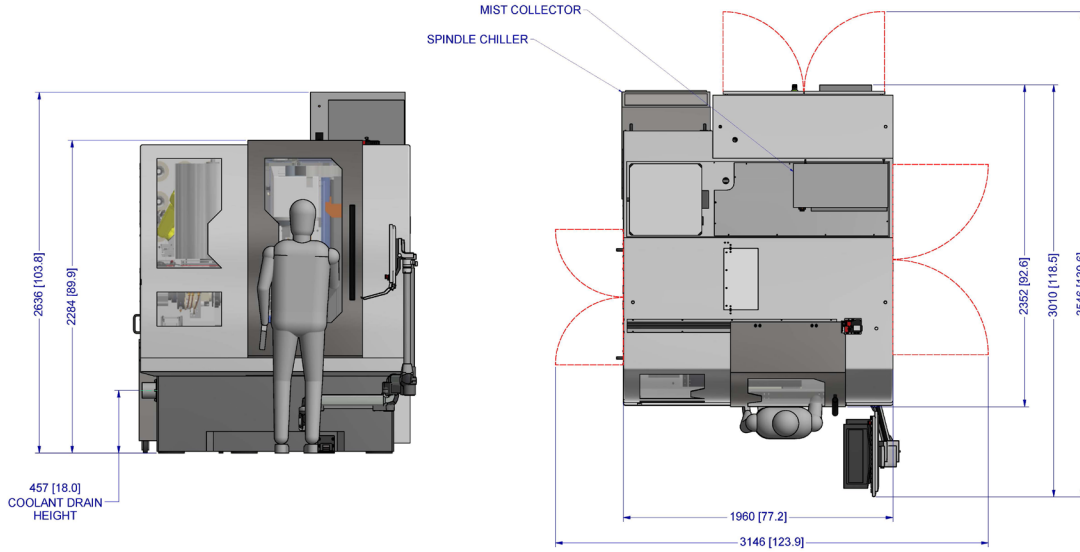
- Grinding Spindles
 - Asynchronous, Manual HSK50, 7.5KW
 - Synchronous, Auto HSK50, 15KW
 - Synchronous, Auto HSK50, 28KW
- Robot Automation
 - Capable of auto loading 3-38mm parts with one gripper assembly
 - Capacity for holding (4) pallets
- Extended tool rail: 24" length (standard 17.3")
- On machine truing and dressing motor
- CNC W-Axis for travel of tool support options along the Z-Axis
- Manual and automatic tailstock designs
- Hydraulic actuated steady rest support
- Extended capabilities to hold and regrind gundrills up to 48"



The Best Grinding Software Worldwide: NUMROTOplus

- Full library of available software to tackle the most demanding cutting tool designs
- Free software version updates for the life of your NXT
- USA based application support team for training and trouble shooting

NXT Machine Specifications



NXT Tool and Cutter Grinder Kinetic Layout

| | Metric | Inch |
|---|-----------------------|-----------------------|
| Base Machine Dimensions (L x W x H) | 2300 x 2032 x 2284 mm | 7' 6" x 6' 6" x 7' 5" |
| Total Weight: Base Machine | 5,964 kg | 13,150 lbs |
| Maximum Workpiece Diameter * | 254 mm | 10 inches |
| Maximum Grind Length, End Work | 381mm | 15 inches |
| Maximum Grind Length, Fluting | 406 mm | 16 in |
| C - Axis Headstock Spindle 360° Rotation | 1,000 rpm | 1,000 rpm |
| B - Axis Grinding Spindle Swivel +/- 120° | 12 rpm | 12 rpm |
| X - Axis Horizontal Travel | 506 mm | 19.9 inches |
| X - Axis Travel Speed | 50 m/min | 1968.5 inches/min |
| Y - Axis Vertical Travel | 650 mm | 25.6 inches |
| Y - Axis Travel Speed | 50 m/min | 1968.5 inches/min |
| Z - Axis Horizontal Travel | 768 mm | 30.2 inches |
| Z - Axis Travel Speed | 50 m/min | 1968.5 inches/min |
| Grinding Spindle Max. Speed | 20,000 rpm | 20,000 rpm |
| Peak Spindle Power | 28 kw | 38 hp |
| Grinding Wheel Diameter (Wheel Changing) ** | 203.2 mm | 8 inches |
| Smallest Programmable Movement - Linear | 0.001 mm | 0.00039 inches |
| Linear Axis Glass Scale Feedback Resolution | 0.00001 mm | 0.0000004 inches |
| Smallest Programmable Movement - Rotary | 0.0001 deg | 0.0001 deg |
| Rotary Axis Feedback Resolution: C-axis | 0.000068 deg | 0.000068 deg |
| Rotary Axis Feedback Resolution: B-axis | 0.00000006 deg | 0.00000006 deg |

* Maximum Work Piece Diameter: **Up to 12" with smaller grind wheel selection**

** Grinding Wheel Max. Diameter with no wheel changing, manifold & probing: **12"**



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