

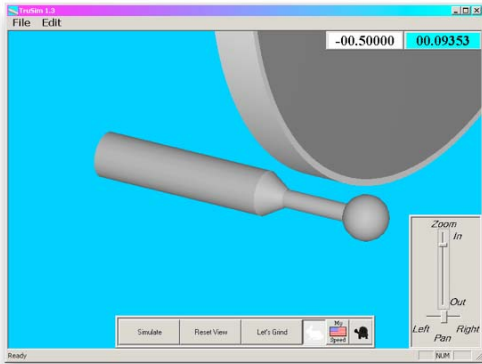
TRU TECH

REVOLUTION



Universal Profile Grinder

- **Profile, Plunge, Peel, In-Feed & Thru-Feed Grinding!**
- **Re-Grind with Zero Runout**
- **Quick Set-Up**
- **Intuitive Programming**
- **Ultra-Precision Accuracy**
 - **Fully Enclosed**
 - **In-process Dressing**
 - **3 Axis Programmable**
 - **Precision Ball Screws**
 - **55 LPM Coolant Capacity**
 - **Programmable Spindle RPM**
 - **Automatic Wheel Dressing**
 - **Touch Screen Pendant**
 - **Excellent Sight-Lines & Optimized Ergonomics**



Intuitive Pick-N-Place™ software makes programming each part a quick, simple task. Drag “move” icons into place, edit their values and you’re ready to grind. You can even simulate the grind operation with TRU TECH’s visualization tools.

PRECISION PROFILES WITH A STANDARD 1A1 WHEEL!

Ideal for blank preparation, micro-tools, core pins, and punches, the TRU TECH Revolution Series makes easy work of Ultra-Precision Centerless Profile Grinding projects.

Easy to use Pick-N-Place™ software allows easy profile programming in minutes and grinds most profiles with a standard 1A1 wheel, making the system ideal for a few parts, or hundreds of parts. The Revolution’s servo and ball-screw drive systems ensures aggressive grind feeds while maintaining exemplary finishes and accuracy.

Integrated into the Revolution series 3 Axis profile grinder is TRU TECH’s patented 5” Precision Grinding Unit, able to hold part concentricity and run-out within 1 micron. Unlike chuck or collet systems, the unit’s unique design allows you to remove, inspect and reload the work-piece without fear of introducing run-out. This makes it perfect for re-grind or custom work!

The Revolution’s 55 liter per minute coolant capacity ensures minimized wheel loading rendering excellent size and finish, no matter what material you’re grinding.

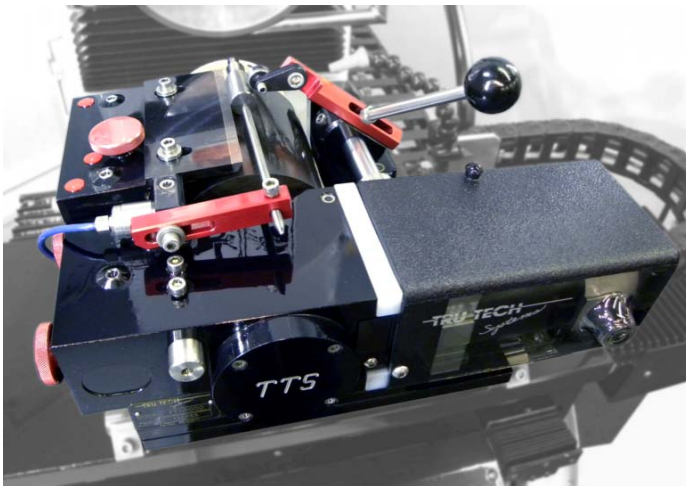
Optional integrated in-process acoustic probing / compensation, 1-micron filtering, and precision coolant temperature control make sub-micron level accuracy more achievable than ever.

Revolution’s controls include solid-state storage systems, surge suppression, and battery-backup systems to ensure your work is safe.

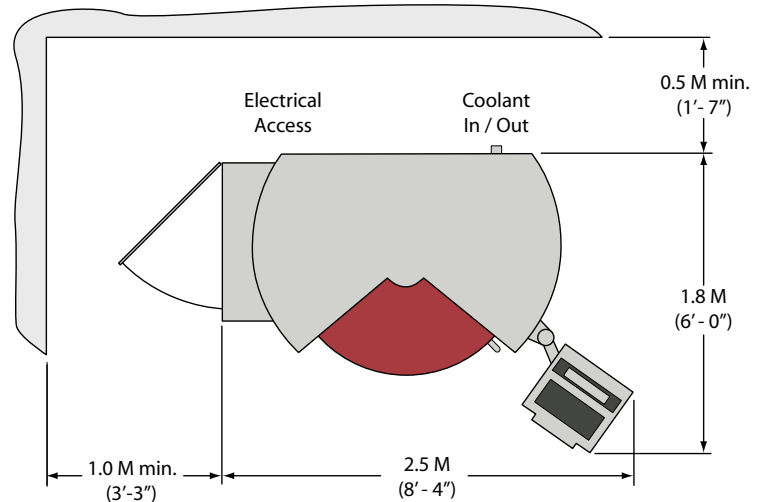
These features and enhancements make the TRU TECH Revolution essential to your success!

SPECIFICATIONS

DESCRIPTION		REVOLUTION
Ultra-Precision Grinding unit		TT-5000
Maximum Grind Length (application specific)		9" (225 mm)
Maximum Grind Diameter		3" (75 mm)
Minimum Grind Diameter		Tooling Dependent
Maximum Travel	X Axis Y Axis Z Axis	18" (250 mm) 10.75" (270 mm) 9" (225 mm)
Wheel Diameter		8" (200 mm) Max
Standard Spindle HP		3 HP
Spindle RPM (Programmable Through Software)		5,000 RPM Max.
Maximum Velocity	Y Axis Z Axis	50" (1200 mm)/Min. 50" (1200 mm)/Min.
Coolant Flow Capacity		55 LPM
Input Increment		.00010" (0.0001 mm)
Accuracy		± .00010" (± 0.0025 mm)
Repeatability		±.000050" (± 0.0013 mm)
Shipping Weight		4,075 LBS.
Power Specification (User-Specified, Factory configured.)		200V-480V 50/60Hz
Shipping Size		105" x 73" x 96" H 266cm x 185cm x 246cm H



TT-5000 5" Precision Grinding Unit



Floor Layout

All photographs may include non-standard or optional features. For specific needs, please contact your local Tru Tech Systems distributor, or Tru Tech Systems, direct.

TRU TECH SYSTEMS, INC.

Toll Free: (877) TRU-TECH • Phone: 586 469-2700 • Fax: 586 469-1344
P.O. Box 46965 • Mt. Clemens, MI 48046 • U.S.A. • www.trutechsystems.com