



New Unison Corporation

Model 9000 Super TruFlute Featuring



Five Axis Dual Spindle

The Model 9000

Super TruFlute

New Unison's Model 9000 Production Flute Grinder, when equipped with the optional fully automated loader, is an 8 axis turnkey grinder featuring an integrated 25 HP, direct drive, dual ended spindle with an operating range of 500 to 10,000 RPM.

It incorporates state-of-the-art technology in its design and utilizes a system of frictionless linear rails on the X, Y and Z axes which minimize machine deflection during grinding.

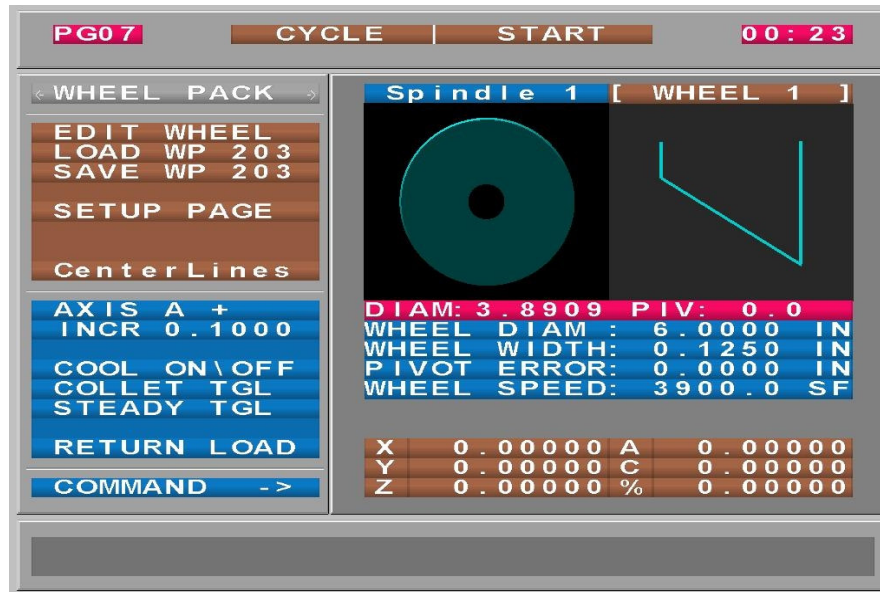
The Model Was Designed To Achieve Five Major Goals

1. High consistent quality of finished tools
2. Fast machining and programming
3. Extremely long life without maintenance or unscheduled downtime
4. Heavy-duty flute grinding
5. Unattended "lights-out" grinding with optional loader

Standard Machine Features

- ▶ Frictionless linear rail system on X, Y and Z Axes
- ▶ The grinding spindle features a direct drive 25 horsepower motor capable of speeds up to 10,000 RPM. The dual ended spindle is equipped with a positive air-purge on each side and is constructed with super precision, angular contact bearings
- ▶ Double nut preloaded ballscrews with AC digital brushless servomotors
- ▶ Automatic centralized lubrication system with automatic low-level lubrication detection
- ▶ Totally enclosed work area
- ▶ Self-contained 93 gallon coolant system or optional central coolant system hook-up
- ▶ Optional - Renishaw touch probe for remanufacturing

“Geometral” Technology



Our Model 9000 features the New Unison “Geometral” control incorporating an Intel Pentium™ processor for program calculations and machine motion control which is capable of simultaneous control of the X, Y, Z, A & C axes during grinding.

Our Geometral style programming language is simple to use and eliminates the need for most operators to understand traditional NC programming language.

Our proprietary Version 6 software allows the operator to quickly modify and customize your tool geometry. On the surface, one may not notice the enhanced capabilities of using our latest level of software since it uses the same format as all of our previous versions of software which allows your operator to quickly become familiar with the Model 9000. Most of the enhancements are underlying in the actual motion control. Changes such as sinusoidal velocity ramp compared to the straight linear velocity ramp previously used have significantly improved machine response and tracking. It is these enhancements that separate the Model 9000 from our competitors making the Model 9000 one of the most powerful and flexible machines on the market. You are no longer required to only make tools the way the machine manufacturer dictates but rather you can design your own tools the way you want them.

SPECIFICATIONS

Approximate Axis Travel

A Axis	Unlimited
C Axis	360 degrees total
X Axis	28" (712mm)
Y Axis	19" (356 mm)
Z Axis	12.5" (317mm)

Capacity

Workpiece O.D. Range:	Up to 12"
Workpiece Length:	Up to 14"
Grinding Wheel O.D.:	Up to 10"

Electrical Specifications

Grinding Spindle Drive Motor:	25 HP, Variable Speed up to 10,000 RPM
Coolant Motor:	1 HP A.C.

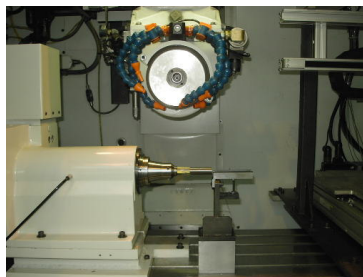
Approximate Floor Space: 112" x 98" x 108"

Approximate weight; 7,200 LBS

Our vast experience spanning over 40 years in the production machining field and our tireless effort in searching for new methods to ***Solve Grinding Problems***, culminated in the design and building of our machines.

Our ability of adapting standard machine components to handle your very special production requirements will provide quick solutions to your grinding problems.

If you have questions, want to see a demonstration or would like a quote, you can contact our Marketing Department at (248) 544-9500 or email us at sales@newunison.com



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