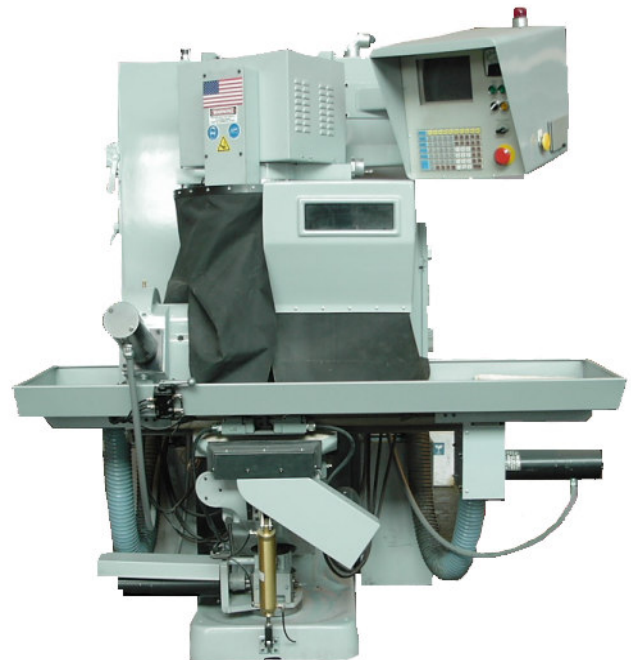


UNISON CORPORATION

Bringing To Manufacturing.....

The Best Grinding Technology



TruFlute Series



Designers and Builders of DedTru, TruFlute and
Other Precision Grinding Equipment.

Model 688 TruFlute

The New Unison **Model 688 Four-Axis CNC TruFlute Helical Grinding System** produces straight or helical flutes in one pass. This machine automatically grinds straight and tapered fluted tools such as drills, reamers and end mills. The Model 688 is a rigid and proven helical grinding system specifically designed for the manufacturer of both standard and special tools.

The Model 688 is known as the **“Workhorse”** of the New Unison product line.



MAJOR BENEFITS

- » Proven Reliability
- » New Control Featuring A Pentium Processor
- » Flute & Relieve In One Chucking
- » Software Which Includes A 3 Dimensional Predictor
- » Program Custom Shapes With Ease
- » Easier To Use Multi Wheel Pack
- » Ease In Programming Custom Shapes
- » Capacity To Store Up To 10,000 Part Programs & Wheel Packs
- » Easy Parametric Programming With Instant Recall Of All Programs
- » Production Monitoring/Parts Count

STANDARD MACHINE FEATURES

- ▶ The wheel spindle is belt-driven, oil mist lubricated and is constructed with two pairs of super precision angular contact bearings.
- ▶ Wheel speed 3600/6000 RPM
- ▶ Cast iron ways with adjustable gib
- ▶ Zero backlash, preloaded ballscrews with servo drives
- ▶ Oil mist lubrication system for the wheelhead with automatic low level shutdown.
- ▶ Automatic Bijur way lubrication system
- ▶ Fused disconnect

SPECIFICATIONS

Work Capacity	Axis Travel	Axis Drives	Maximum Wheel Diameter	Spindle Drive	Approximate Floor Space
Maximum Diameter: 10" (254mm) Maximum Length 20" (508mm)	A-Unlimited X-20" (508mm) Y-7" (178mm) Z-8.5" (216mm) C-90° RH; 45° LH	Servo Motors Encoder X,Y,Z & A	Maximum 8" (203mm)	A-C Motor 3600/6000 RPM 5 H.P. Standard 10 H.P. Optional	71" x 94" (1803 x 2388mm)

Model 9000 Dual Spindle Super TruFlute

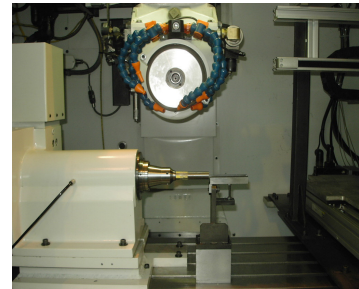


The **Model 9000** is an 8-axis “turnkey” **Tool & Cutter Grinder** including the optional autoloader featuring an integrated 25 horsepower, direct drive, dual ended spindle. New Unison has incorporated state-of-the-art technology in the Model 9000’s design which minimizes machine deflection when grinding tools.

The Model 9000 includes our latest in tool grinding software & runs on the Windows XP operating system. Our proprietary “Geometral”™ software allows the operator to quickly customize and/or modify tool geometry which is displayed in three dimensions (3D) on the machine’s high-resolution, flat panel monitor.

The Model 9000 was designed to achieve five major goals

1. High consistent quality of finished tools.
2. Fast machining and programming.
3. Extremely long life with minimal maintenance
4. Heavy-duty flute grinding
5. Lights-out operation with the optional Autoloader



Standard Machine Features

- ⇒ The grinding spindle features a direct drive 25 horsepower motor capable of speeds up to 10,000 RPM. This dual ended spindle is equipped with a positive air-purge on each side and is constructed with super precision, angular contact bearings.
- ⇒ Five year warranty on Yaskawa AC servomotors and drive amplifiers.
- ⇒ Automatic centralized lubrication system with automatic low-level lubrication detection
- ⇒ Multiple part lengths can be run in the same pallet
- ⇒ Supplied with a self-contained 93-gallon capacity coolant system or central coolant system hook-up.

If you have questions or would like a quote, contact any member of our Marketing Department at (248) 544-9500.



Bringing Cutting Tool Manufacturers

Complete Capability



- ▶ The **Ultimate Consistent Quality** capability for finished fluted tools
- ▶ The **Fastest Machine** capability in terms of machining, programming and changover
- ▶ The **Longest Wear Life** capability without maintenance or unscheduled downtime

The Model 4000 is the ultimate machine for fast, accurate cutting tool production, consisting of five axes having the most advanced state-of-the-art controls. Some of the design features are hydrostatic ways, air conditioned electrical panel, automatic coolant filtration system and touch probe. Everything is designed for speed and long life.

The Super TruFlute features a fully programmable five axis motion control capable of simultaneous A/C/X/Y and Z grinding in any direction enabling operations such as :

- » G Drill/Reamer
- » Step Tool
- » End Mills (standard, ballnose, & corner radius)
- » Taper Tools with Consistent Helix, Consistent Lead
- » Compression Tools
- » Standard Drills and Subland Drills
- » Router Bits
- » Milling Cutter/Saws
- » Spade Drill
- » Burr Tools
- » Specialty Tools

Specifications

Work Capacity	Axis Travel	Axis Drives	Maximum Wheel Diameter	Spindle Drive	Approximate Floor Space
Maximum Diameter 12" (305mm)	A-Unlimited X-13"(355MM) Y-7" (200MM) Z-2.5" (340MM) C-±250°	Servo Motors Encoders X, Y, A & C Glass Scale	Maximum 8" (203mm)	10 H.P. Variable Speed (Programmable)	140' x 160' (3556 x 4064mm)



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