

UNISON CORPORATION

Model 2850MT 5-Axis CNC Tool & Cutter Grinder

The Model 2850MT is a seven (7) axis CNC Micro Tool Grinder. It is designed to produce ultra-precise custom micro tools which are commonly used in the manufacture of critical aerospace, microfluidic, medical, dental and semiconductor components.

The Model 2850MT can manufacture drills, endmills and reamers as small as .013" and burrs in sizes starting at .02" in diameter. Unison's proprietary Version 7 Software allows the machine's operator to quickly customize and/or modify tool geometry with Unison's user friendly application software and then verified by a real-time 3D Parts Predictor. Each machine is supplied with a complete software package and library of tool programs.



FEATURES OF THE MODEL 2850MT

Yaskawa AC Drive Package

The Model 2850MT is equipped with Yaskawa AC Servomotors and Drive Amplifiers which are backed by a year (5) year manufacturer's warranty.

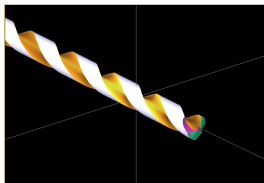
Pop-Up Steadyrest

The foremost challenge when manufacturing microdrills is overcoming their virtual lack of stiffness, which makes them difficult to support, as well as grip. Unison's "Pop-Up" steadyrest supports even very small diameter drills.

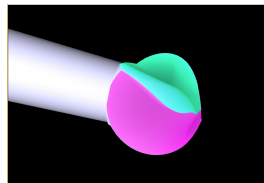
Automatic Pick-N-Place Loading System

To decrease your labor cost, the Model 2850MT incorporates a pallet load/unload system. Based on part volume and cycle times, this system is capable of running 24/7 lights out. The parts are loaded and unloaded from the machine by means of a robotic manipulator arm which adds 6th and 7th axes of motion to the grinder. The loader is able to handle workpieces as small as 0.020" in diameter.

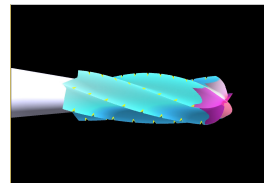
To increase productivity, the Model 2850MT can also be equipped with an on-board electric wheel dressing system and a precise Probe Assembly to guarantee repeatability of parts.



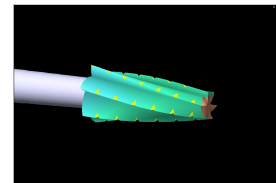
0.4mm Drill



0.5mm Burr



0.8mm BSC



2.1mm BSM



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"Unison = Grinding Solutions"