

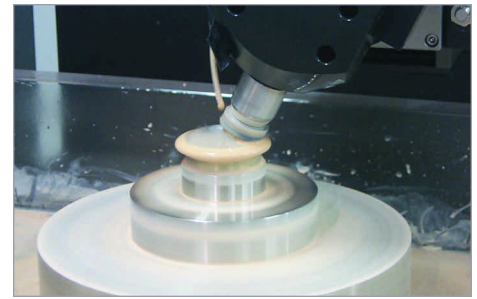
# Microfinish™ 300



Compact, three-axis, CNC machine tool specifically designed for polishing of aspherical surfaces in glass, ceramic and ferrous materials

## Features & Benefits

- Windows® based machine control system
- Accommodates a wide variety of concave and convex rotationally symmetric aspheric surface geometries up to 300mm diameter and 75mm SAG.
- Provides operators with a variety of polishing cycles to handle a wide range of surface types.
  - Uniform removal polishing
  - Corrective polishing
  - Polish asphere into an asphere
- Built on a natural granite base, and utilizes a passive vibration isolation system.
- Slideways provide 250mm (X-axis), 150mm (Z-Axis) and  $\pm 60^\circ$  (B-Axis) of travel.
- Accepts aspheric error maps from Taylor Hobson Form Talysurf (DOS and Windows®) and from Ultracomp™ data measured on Precitech Nanoform® machines.



Configured for the corrective polishing of an aspheric convex BK 7 glass application.

## Specifications

System / Control		Description
Configuration	Three-axis, CNC aspheric polishing machine	
Control System	PC based Windows® 95 environment machine control system	
Base	Natural granite supported in a fabricated steel frame	
Vibration Isolation	Passive vibration isolation	
Machine Slides		Description
Type	X and Z Axes	B Axis
Travel	Roller slide-translational	Roller axis-rotational
Drive System	X, 250mm (10")	$\pm 60^\circ$ from vertical
	Z, 100mm (4")	
	Servo motor w/ rotary encoder position feedback	
Workholding Spindle		Description
Type	Bi-directional ball bearing spindle	
Speed Range	0-200RPM	
Polishing Head Spindle		Description
Type	Ball bearing spindle	
Speed Range	0-200RPM	
Machine Requirements		
Power	230/220VAC, 1 phase 50/60 Hz	
Floor Space	1.0 meter x 2.0 meter (36" x 72" )	

## Options & Accessories

- Polisher tools for most typical applications
- Microform adapter for mounting to the work spindle
- Vacuum workpiece holding system and Nanoform® vacuum chuck adapter

