



OptoTech

ASM 80 CNC-TC

High Precision Fine and Finest Grinding
of Aspheres and Freeform Surfaces



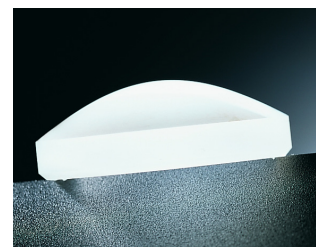
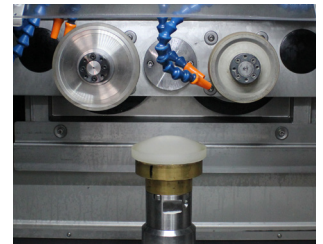
The OptoTech 4-axis Grinding machine ASM 80 CNC-TC is the ideal universal grinding machine for any operational area. Spheres, aspheres, torical, A-torical up to free form surfaces can be produced in the highest precision and accuracy.

Smart Solutions for Professionals



Type	ASM 80 CNC-TC			
Working range diameter	Ø 5 - 100 mm (Using 2 Grinding Spindles with 4 Tools) Ø 5 - 120 mm (Using 1 Grinding Spindle with 2 Tools)			
Working range radius cx	5 mm - ∞ (Best Fit Radius)			
Working range radius cv	Depending on Tool Diameter			
Axes	X-Axis	Y-Axis	Z-Axis	C-Axis
Arrangement	horizontally	horizontally	horizontally	workpiece axis
Travel	300 mm	130 mm	80 mm	360°
Repeating accuracy	±0.001 mm	±0.001 mm	±0.001 mm	±10"
Feed rate	0 - 5000 mm/min	0 - 15000 mm/min	0 - 5000 mm/min	0 - 550 min ⁻¹
Spindles	Tool Spindle 1	Tool Spindle 2	Workpiece Spindle	
Drive	≤ 20000 min ⁻¹	≤ 20000 min ⁻¹	0 - 550 min ⁻¹	
Clamping Technology	HD 25	HD 25	Different options available	
CNC controller	Siemens Sinumerik 840 Digital Solution Line			
Dimensions WxHxD	1445 x 1890 x 1650 mm			
Weight	1450 kg			

- Machine bed made of polymer concrete
- 1 vertical workpiece spindle, movable in Z-direction
- 2 horizontal tool spindles, movable in X- and Y-direction
- Workpiece spindle combined with C-Axis in highest precision
- 4-Axis interpolation
- Better surface finish and repeatability due to grinding of aspheres with peripheral wheels
- Up to 4 grinding wheels in 2 tool spindles possible
- Rough grinding, medium grinding, fine grinding and finest grinding
- High speed single surface processing of any lens shape (depending on tool diameter)
- Short set-up times due to Microsoft Windows operating system with OptoTech user interface and optional OptoTech F³ software package
- Quick and precise tool change due to Hydro-Expansion Chuck technology
- Remote diagnosis technology optional



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