



OptoTech

# SM 130 CNC-TC

Low-Cost Generator for Grinding Spheres or Aspheres with Cup-Type Tools or Grinding Tools with Integrated Edging



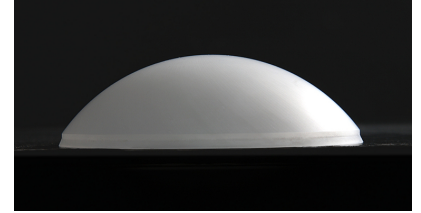
The grinding machine SM 130 CNC-TC is the low cost version of a high speed CNC generator. The universal working range, easy handling combined with the most modern grinding technology via standard cup wheel grinding tools or OptoTech KombiTool Technology for pre- and fine grinding offer a machine with an unmatched price-performance-ratio.



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## Technical Data

SM 130 CNC-TC	
Application	Generator for Pre- and Fine Grinding of Spherical and Aspherical Lenses
Working Range Diameter	10 mm - 130 mm
Working Range Diameter (aspheres)	10 mm - 150 mm
Working Range Radius	10 mm to plano
Control	Siemens Sinumerik 840D Solution Line
Grinding Spindles	2 (pre- and fine grinding spindle)
Tool Spindle	Speed: 5000 - 20000 rpm; Drive: Frequency Controlled AC Motor; Interface: Hydro Expansion Chuck Ø 25 mm DIN
Workpiece Spindle	Speed: 5 - 1500 rpm, infinitely variable; Interface: Flange; Clamping System: Vacuum, Collet or Hydro Expansion Chuck
Vacuum	-0.7 bar
Air Pressure Requirement	5 bar
Power Requirement (others on request)	5 kW / 400 V / 50 Hz
Dimensions	Width: 1425 mm, Height: 1990 mm, Depth: 1765 mm
Weight (approx.)	2000 kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





## Highlights

- 3 Spindles (Workpiece Spindle, 2 Grinding Spindles)
- Adjustment of the process parameters via 3-axis CNC-Controller
- Easy to handle due to a CNC controller for parameter input
- OptoTech user interface, Microsoft Windows

## System Advantages

- The ideal low-cost version of an high speed CNC generator
- Easy handling
- Energy-efficient motors: Possible energy savings up to 30% (depending on required power)

## Performance Characteristics

Processing Cycles:

- Grinding of spheres with standard cup grinding wheels
- Pre-, grinding, fine grinding and edging with KombiTool or KombiTool+ [\[link\]](#)
- Grinding of a protection chamfer (radii chamfer) with the cup grinding wheel
- Asphere processing with optional software package F-Cube 2D

## Options

- Asphere processing with optional software package F-Cube 2D