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PKS 250 CNC

CNC-Controlled Prism Contour Generator

High precision round cycle-prism processing machine PKS 250 CNC for contour processing of any kind of prisms or prism similar components made of glass or ceramics, using a two step grinding process.

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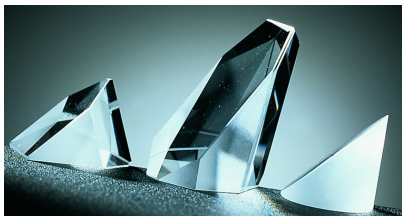
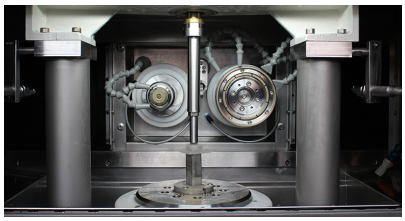
Technical Data

	PKS 250 CNC
Application	Generating prism shaped glass or ceramic workpieces
Working Range Workpiece Height	0 mm - 250 mm
Repeatability C-Axis	± 10“
Amount of Axes	4 (X, Y, Z, C)
Control	Siemens Sinumerik 840 Digital Solution Line
Number of Surface Cuts	unlimited
Rotation Diameter	Ø 135 mm with chamfers; Ø 190 mm without chamfers
Tool Spindle	Speed: 0 - 6000/min; Interface: Flange (optional hydraulic chuck Ø40x60mm DIN)
Workpiece Interface	Hydraulic clamping table
Vacuum	-0.6 bar
Air Pressure Requirement	6 bar
Power Requirement (others on request)	10 kW / 400 V / 50 Hz
Dimensions	Width: 1750 mm, Height: 2010 mm, Depth: 1920 mm
Weight (approx.)	2500 kg
Disclaimer	All data are subject to change without notice. Please verify details with OptoTech.





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Highlights

- Multi purpose, 4-axis CNC machine that can be used for generating contours on prisms, generating cylinder optics and aspheres (AspheroTool Software Package required)
- Tool spindle with KombiTool Technology (KombiTool / KombiTool+ [link]) for high precision surface processing (Pre- and fine grinding in one tool without changing the tools); Edging and chamfering possible
- Precise plano surfacing to polishable quality due to optimised grinding parameters with multi-cut technology, adjusted speed and feed rates for all spindles
- Angular accuracy of the C-Axis ± 10"
- Gantry with hydraulic clamping system for prisms
- Two-stage machining in one operation using combination tool technology (KombiTool Technology)
- Highly dynamic AC servo drives for all axes
- Minimal set-up times thanks to dialog menu-guided operation
- Tool clamping via direct flanging or with optional hydro-expansion clamping technology (Ø 40 x 60 mm DIN)
- Directly flanged tools at KombiTool Technology
- Optimization of the grinding process through multi-stage cuts with adapted feed rates and speeds of all spindles

Options

- High resolution C-Axis Encoder available
- Generating cylinder optics and aspheres (AspheroTool Software Package required)
- Other tool connection interface on request

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