

# OPTIPRO

Trusted Technology.



PZX

## PZX Prism Grinding Machine

■ Generate Prisms with Precise Angles

Easy Set Ups with User Friendly Software ■

■ 5 Axes of CNC Motion for Process Flexibility

Highly Efficient Prism Manufacturing ■

### SAVE TIME

- Process all prism surfaces in one cycle
- Dual spindles for performing rough and fine grinding in one set up without changing tools
- Flexibility to choose your cutting motion for process optimization

### MAKE MONEY

- Generate prism surfaces with precise angular tolerance
- Correct base to face angles by utilizing 5 axes of CNC motion, as well as face to face angle correction
- Ability to align the part with its crystal orientation (e.g. CaF<sub>2</sub> and MgF<sub>2</sub>)

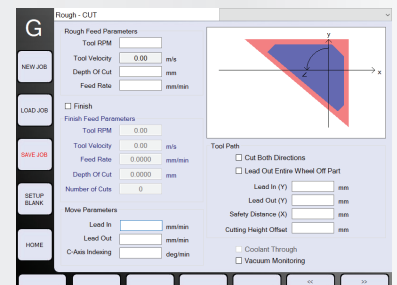
### QUALITY & RELIABILITY

- Precision-grade components, including C-Axis with 30 arc-sec positioning
- Vertical prism clamping system
- Rigid cast-iron base designed for excellent stability ensures highest quality and control



### EASY-TO-USE SOFTWARE

- Clear and simple software for predictable prism manufacturing
- Shaping, rough grinding and/or fine grinding processes can be chained together
- Ability to specify the angle and material removal for each face



Grinding

Polishing

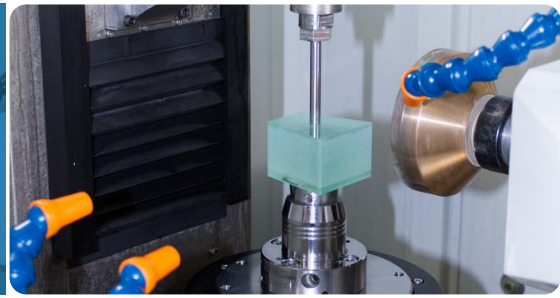
UltraForm  
UltraSmooth  
Finishing

Measuring

Advanced  
Process  
Development

Training

# Prism Grinding Made Easy



Specifications*	PZX
<b>Workpiece</b> Maximum Thickness Maximum Diameter of Largest Diagonal Maximum Weight	6" Tall 10" (Tooling Dependent) 300 kg (661 lbs.)
<b>Work Spindle</b> Spindle Speed Hydro-Expansion Chuck C-Axis Position and Hold	0 - 250 rpm Standard Standard
<b>Tool Spindle</b> Maximum Tool Diameter Maximum Tool Weight Tool Spindle Speed Spindle Power (Peak) Tool Holder Style Twin Spindle	6" (for Prism Manufacturing) 6 kg (13.2 lbs.) 1,000 - 18,000 rpm 7kW (9.5hp) ER40 Collet Standard
<b>Travels</b> X - Axis Travel Y - Axis Travel Z - Axis Travel B - Axis Travel C - Axis Travel	500 mm (19.6") 400 mm (15.7") 500 mm (19.6") -90° to 180° 0° to 360° (Continuous)
<b>Vertical Prism Clamping System</b> Clamping Pressure	.5 bar to 6 bar
<b>Communication Interface</b> Ethernet USB	Standard Standard
<b>Machine Dimensions</b> Width Depth Height Weight	2,110 mm (83") 2,515 mm (99") 2,700 mm (106") 3,400 kg (7,500 lbs.)
<b>Facility Requirements</b> Electrical Air Supply	480V +/- 5%, 67A 100PSI, 5 CFM clean dry air
<b>Workpiece Probing</b> <b>Tool Probing</b>	Standard Standard

\* Specifications subject to change. Contact OptiPro for the latest specifications.



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