



ADVANCED GUIDE OPTICS

SIMPLIFY GUIDE SETTING WHILE INCREASING REPEATABILITY

Primetals Technologies advanced guide optics is the most innovative and intelligent optics system on the market. By utilizing machine vision cameras with bi-telecentric optics powered by advanced edge detecting software, the process of guide setting has been simplified while also increasing accuracy and repeatability. The system keeps the same basic optical and mechanical principles of our legacy optics while adding advanced features and benefits only possible with a computer based system.

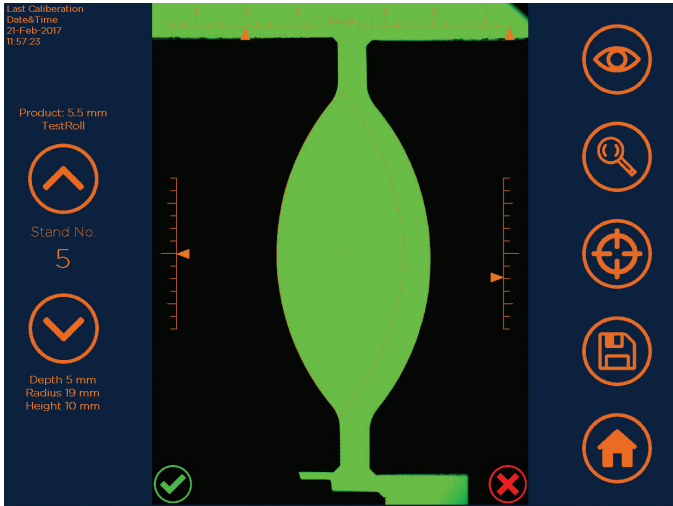
FIELD OF APPLICATION

High speed USX, AX, and ASR guides, and assorted guide mounting used in:

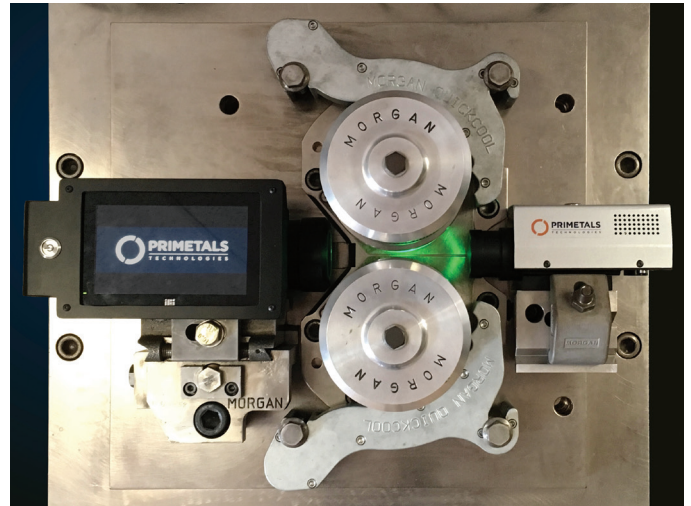
- Pre-Finishing Mills (PFM)
- No-Twist® Mills (NTM)
- Mini-Finishing Mills (MFM)
- Reducing/Sizing Mills (RSM)
- Non-Ferrous Applications
- Custom applications and configurations are available

MAIN BENEFITS

- Make guide setting faster and more accurate with user feedback feature
- Increase accountability with optional login and tracking functions
- Improve guide setting with enhanced software based calibration
- Simplify learning curve with intuitive, icon driven touch screen interface
- Ensure overall accuracy to $\pm 0,025$ mm
- Eliminate the need for printed mylar templates with digitized templates



Main guide setting screen on bench



Portable optics shown on a 6" K-mill stand

PRODUCT FEATURES

Active pointers to indicate position of guide rollers and guide bracket

Ability to save and review guide setups and data

Single home base for simultaneous portable and light source charging

Calibration information stored for both left and right hand setup

Cycle through templates for a selected product size and mill location on bench

Integrated training material

Roll cross measurement and feedback on portable

Automatic roll sag compensation on portable

Ability to customize features per customer

TECHNICAL DATA

Integrated capacitive touch screen HMI (12.1" bench, 7" portable)

1600 x 1200 / UXGA (2 Mpix) camera with CMOS sensor (4,5 x 4,5 um pixel size)

True bi-telecentric lens with 40 mm field of view

Maximum roller height of 40 mm

High-Power LED Collimator Light Source (100 mW output)

USB / Wi-Fi / Ethernet connectivity

88 - 264 VAC fused power input

11.1V Li-ion rechargeable battery (5200mAh - portable scope, 2600mAh - portable light source)

Magnification: 4.5x - bench, 2.8x - portable

The advanced guide optics system is just one product in a wide array of products that can greatly increase the performance and reliability of your high-speed rolling mill.

Primetals technologies offers a full range of services designed to maximize mill utilization including:

- Guide audits
- Lubrication audits
- Training workshops

OTHER RELATED PRODUCTS

- Large 'Universal' bench optics
- USX/AX High-speed guides
- 'X'-Clamp guide mounting
- QuickCool water headers

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