



Gooch & Housego



XTP Frequency Converters and Wave Plates

The XTP line of holders offers large aperture, extremely thin KDP or KD*P plates and mounts suitable for harmonic generation and difference frequency mixing with ultrafast pulse lasers.

Very thin crystals minimize the effects of group velocity mismatch and group velocity dispersion in femtosecond lasers. KDP or KD*P offer the advantages of being available in very large apertures with high quality and high damage threshold. Large beam diameters reduce the likelihood of laser damage due to excessive intensity.

Gooch and Housego's precision manufacturing capability produces crystals with aspect ratios as large as 200:1 and low wavefront distortion.

Complementing our ultra-thin crystal fabrication expertise is our capability to provide the world's largest aperture KDP/KD*P harmonic generators and wave plates, which have been fabricated with apertures as large as 420 mm x 420 mm. Transmitted wavefront error for these large-aperture devices is typically in the range of $\lambda/5$ or better at 633 nm. Both the harmonic generators and wave plates are available with SolGel anti-reflection (AR) coatings.

Key Features:

- Thin crystals offer short optical paths
- Large apertures to 300 mm diameter
- Low wavefront distortion
- SolGel AR coatings
- Anodized aluminium housings
- Custom configurations available

Applications:

- Ultrafast laser research
- Large aperture wave plates

www.goochandhousego.com



光技術をサポートする

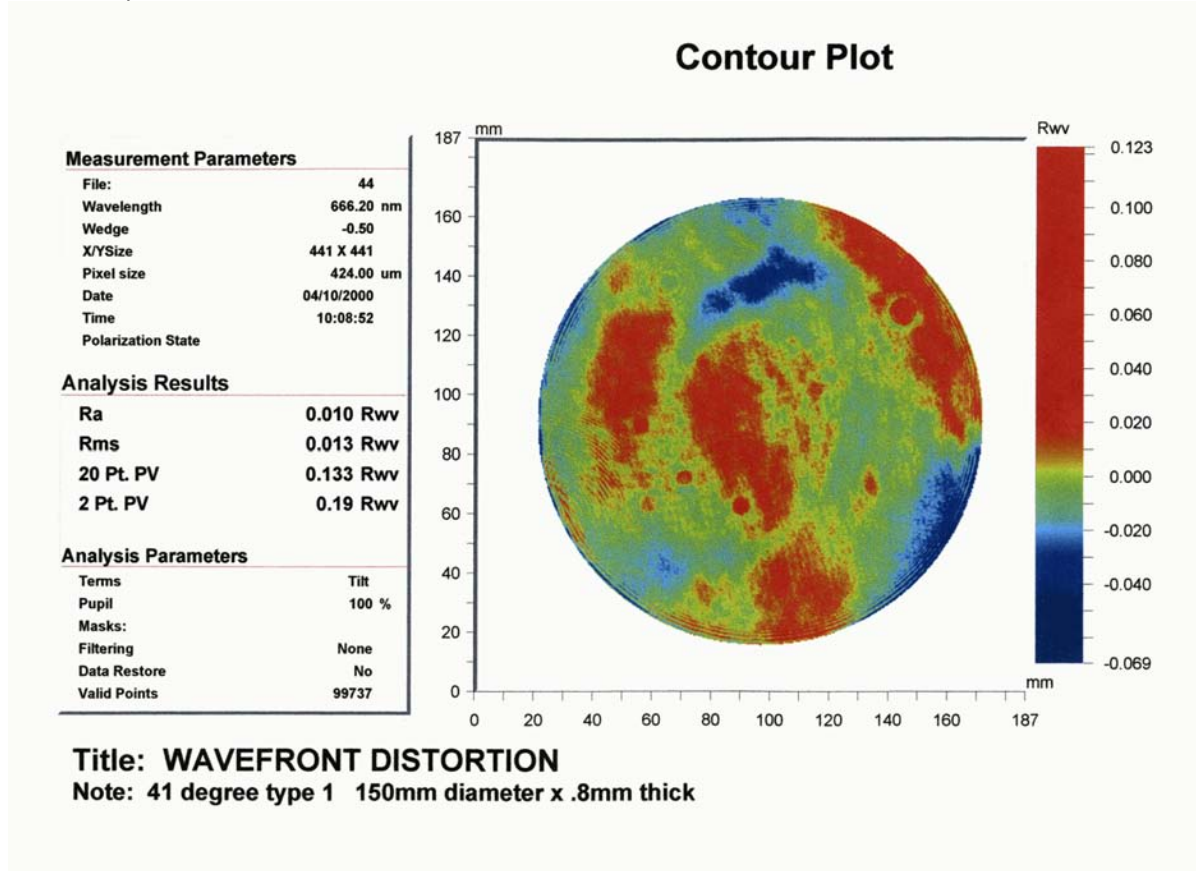
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Optical Specifications

Example: Actual contour plot of the wavefront distortion of a 0.8 mm thick, KDP crystal with a 150 mm diameter aperture.



Ordering Codes

SIZES AVAILABLE: Although many crystal specifications are custom tailored to meet individual applications, housings with standard apertures and outside diameters may be selected.

Model Number	Aperture Diameter	Outside Diameter
XTP 65	65 mm	101 mm
XTP 100	100 mm	152 mm
XTP 125	125 mm	186 mm
XTP 160	160 mm	228 mm
XTP 200	200 mm	254 mm
XTP 300	300 mm	356 mm

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