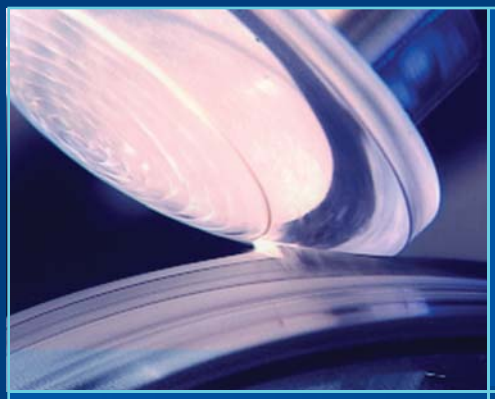


MRF®

magnetorheological finishing

QED Technologies®

Precision polishing systems for flats, spheres, aspheres, prisms and cylinders.

Q22-X / Q22-Y machine

A QED solution for a range of precision applications

With magnetorheological finishing (MRF®) from QED Technologies®, you can have speed and accuracy in an automated polishing system. Surfaces that could only be done by hand, if at all, can now be finished by machine to better than λ/20 p-v. And the process take a matter of minutes, instead of days. Choose the Q22-X or Q22-Y MRF system and expand your capabilities today.

Q22-X MRF® System

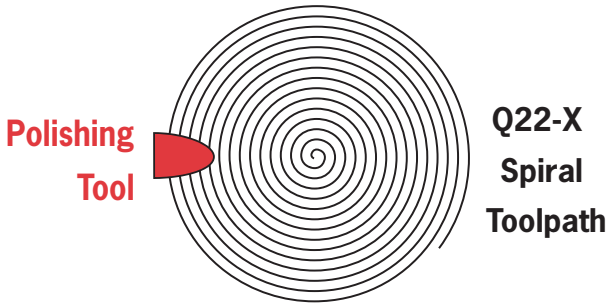
For spheres, flats and aspheres

Using a spiral tool path, the Q22-X can polish and figure:

- High precision spheres and flats (1λ to λ/50 p-v)
- Mild aspherics (< 20 µm departure)
- Wild aspherics (> 20 µm departure)

It yields highly accurate results for:

- High aspect ratio optics and substrates
- Correction of transmitted wavefront (windows, phase plates, entire system corrections on one surface)
- Optical glasses, single crystals (calcium fluoride, silicon) and ceramics (SiC, WC)
- Optics for instruments, lasers, medical devices, and military applications
- Photolithography optics



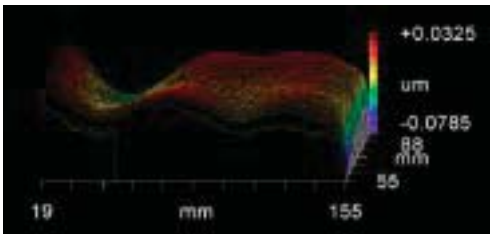
Q22-Y MRF® System

All the capabilities of the Q22-X, plus square or rectangular mirrors and windows, prisms and optional cylindrical polishing capabilities.

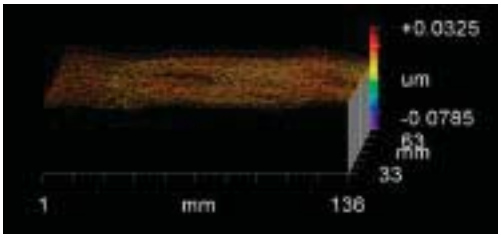
The Q22-Y MRF system employs a raster toolpath for extended capabilities. In addition to the shapes and materials listed in the Q22-X description, it can also be used for:

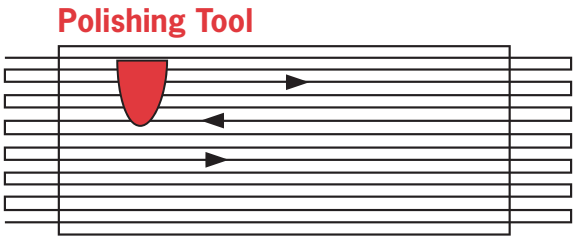
- Square and rectangular aperture optics
- Figure and angle correction for prisms
- Final figuring of photoblank substrates
- Figure correction of cylindrical optics

Before MRF



After MRF





Q22-Y Raster Toolpath

QED Technologies®

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