

Capabilities



Optical flats

Optical flats are precision flat surfaces used as a reference surfaces to compare against of a second product where flatness is unknown.

We offer custom optical flats made to sizes and flatness to fit our customer's testing requirements. Optical flats may be manufactured either single or double sided up to a surface form of 1/20 of a wave. Flats are typically manufactured from quartz, BK7 or Zerodur but alternative materials may be requested.



All our stock and custom flats are supplied in a quality wooden box to protect the part when not in use. We also offer an optical flat reconditioning service to repolish old flats suffering from wear and tear for less than the price of a new product.

Custom capabilities

Diameter	25mm to 400mm+
Flatness	< 1/20 waves @ 633nm
Thickness*	Single or double sided
Parallelism	7.5mm to 60mm+
Coating options	< 3 arcminutes
	Partial reflective coating

Notes: *Thickness is dependant on polishing requirements.

All products are tested in our state of the art metrology laboratory by our highly trained technicians to ensure compliance with the specification. Parts are then sent to our QA team to be cleaned and checked for surface imperfections before dispatch.

Please contact our technical sales team on (+44) 1622 849 444 to discuss your custom optical flats requirements and discover how Knight Optical can help improve your supply chain experience. Alternatively, email us your requirements by clicking on the links below.

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