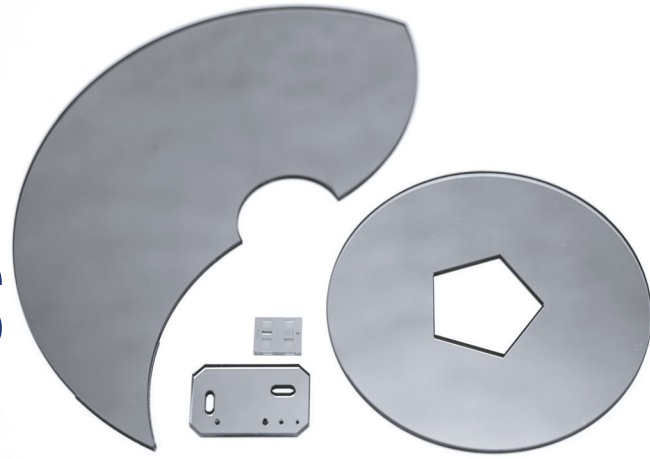
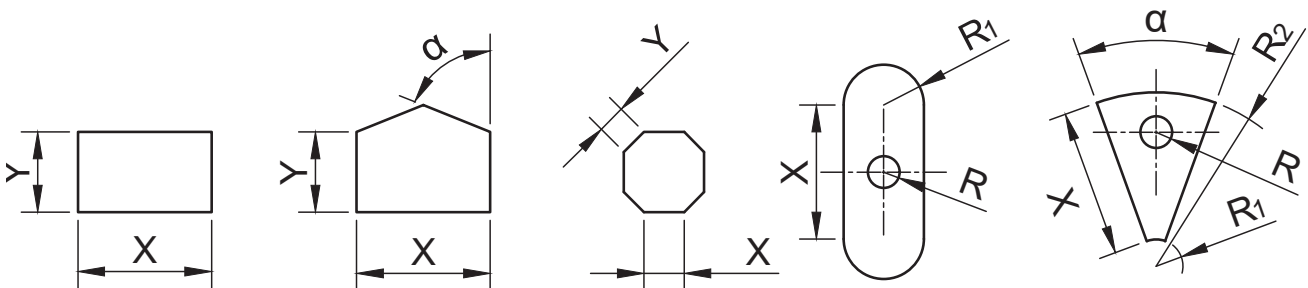




# RETICLES AND CUSTOM SOLUTIONS



In addition to more standard products like glass discs and linear scales, we also provide reticles and custom tailor-made solutions that fit customer requirements. Having an in-house R&D department and long standing relationships with Universities and science institutions, enables us to create new products from scratch, offer unorthodox solutions to various challenges faced by the customer



X - length, mm; Y - width, mm;  $\alpha$  - angle, °; R, R<sub>1</sub> and R<sub>2</sub> - radius, mm.

## MATERIAL

Substrate material	float glass, BK7 optical glass, ceramics, aluminium oxide and others. Low CTE: quartz glass, borosilicate, Robax, Zerodur.
Thickness of substrate	0,5 - 8 mm
Coating	vacuum deposited chrome
- optical density	1.5 - 3 ( $\pm 5\%$ ) at 400-900 nm
- reflection	< 60% at 400-900 nm
- layer thickness	200 $\div$ 4000 Å
Shape of reticle	any
Reticle processing	scribed and broken, laser cutting, grinding
Outbreaks on edges	< 0.1 mm, edges linearity 0.1 mm/m
Grinded, polished glass	Edges linearity up to 0.015 mm/m

## PATTERN

Coating	Aluminum, silica, chrome, anti-reflective chrome and others on request
Mark period ratio deviation	$\pm 2.5\%$
Max. graduation accuracy	2 arc. sec
Graduation coaxiality to outside diameter	< 0.1 mm
Grating pitch	from 8 $\mu$ m

Other glass types, glass thicknesses and shapes of graduations lines can be provided. Please contact us with your ideas, drawings, needed specifications and other information and we will talk about the options.