

Beamsplitters and Polarizing Beamsplitters

Product Information

Plano/Plano Beamsplitters are produced by using interference coatings for adjusting the splitting ratio (mostly 50:50). Also polarizing Beamsplitters are used to separate S and P polarization from a laser source.

Applications

Beamsplitters can be used to split the optical path in both directions or to separate S and P polarization of the laser beam in

- Diode laser
- Gas laser
- YAG medical laser
- Diode pumped Solid-State laser

Advantages

- High quality consistency
- High laser damage threshold
- High accurate shape
- Low Scratch-Dig
- Customized design
- In-house coating capabilities

Materials

All types of optical glass, Fused Silica

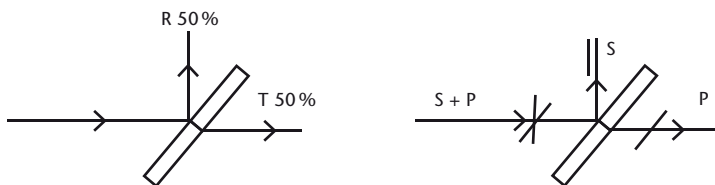
Quality Assurance

Our quality control is based on self-checking during production and 100% final inspection.

A coating curve is delivered with the component.



Beamsplitters



Specifications

Design Wavelength	350 – 2400 nm
Diameter	12.7 – 25.4 mm up to 300 mm
Surface Quality (S-D)	10 – 5
Surface Flatness	$\lambda/10$ depending on dimension
Roughness	< 1 nm RMS
Parallelism	1 arc minute
Extinction Ratio	$T_p/T_s = 1000 : 1$
Angle of Incidence	Standard 45°, other on request
Damage Threshold	> 10 J/cm ² @ 1064 nm, single pulse, 650 ps
AR Coating	R < 0,5 %
Coating	Multi dielectric
Splitting Ratio	50/50, 70/30, 30/70 or upon request

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