

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

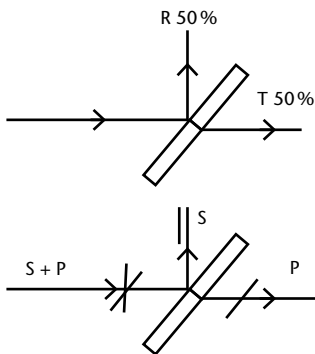
Materials

- 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

Region for center wavelength	350 – 1600 nm, other wavelengths on demand, bandwidths on demand
Diameter	12.7–101.6 mm, other diameters on demand
Surface quality	S-D 10–5, depending on dimension
Surface flatness	$\leq \lambda/10$, depending on dimension
Roughness	< 1 nm RMS
Parallelism	1 arc minute
Extinction ratio	up to 1000 : 1
Angle of incidence	Standard 45°, other angles on demand
Damage threshold	>20 J/cm ² @ 1064 nm, S-on-1, 10 ns
Coating	Multi-dielectric, AR Coating R < 0.2 %
Splitting ratio	50/50, 70/30, 30/70, other ratios on demand



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