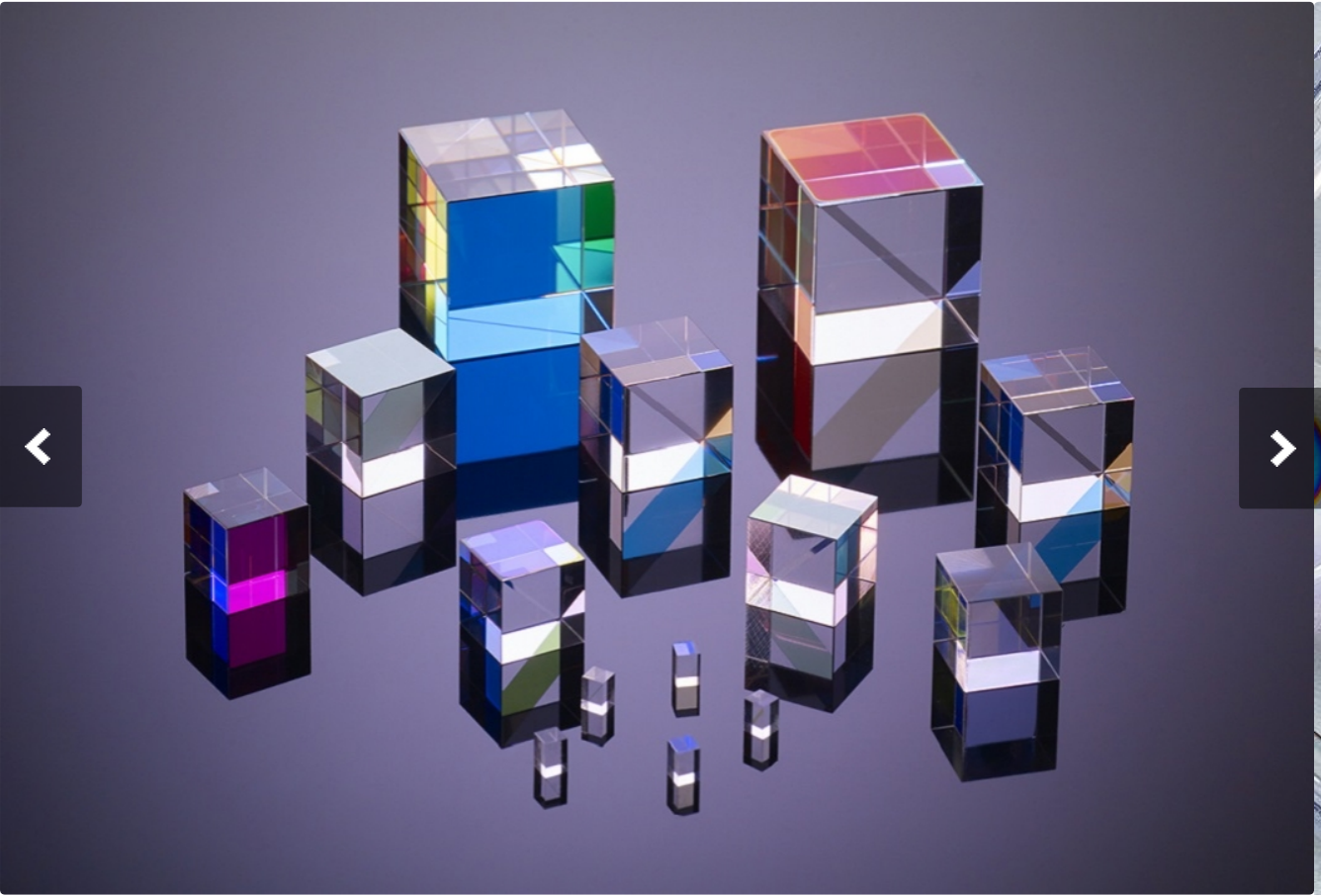




# Beam Splitters

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Perkins Precision Developments (PPD) manufactures [polarizing](#) and non-polarizing beam splitters, beam splitter cubes, dichroic laser mirrors, prism polarizers, partial reflectors and output couplers for both R&D and OEM applications. Because we utilize [Ion Beam Sputtered \(IBS\)](#) coating technology, our beam splitters and beam splitter assemblies are environmentally stable, thus there is no spectral shift caused by either time, moisture or temperature.

As with all of our precision laser optics and optical assemblies, PPD's laser-line and broadband beam splitters and output couplers exhibit both low absorption and high damage thresholds (20J!), making them ideal for use with high energy Nd:YAG and fibers lasers as well as other high-power pulsed and CW laser systems.

[Custom](#) dielectric beam splitter coatings and low-loss anti-reflection (AR) coatings can also be deposited on customer supplied substrates, including flats, curves and prisms. Please [send us your requests](#) for precision laser optics and thin film coatings for either prototype or volume OEM requirements.

Features		Specifications
Beam Splitters	Typical	Best
Size	2mm-2"	1.5mm-6"
Surface Quality	10-5	0-0
Flatness(p-v)*	$\lambda/10$	$\lambda/50$
TWD (p-v)	$\lambda/10$	$\lambda/50$
Roughness (RMS)	2-3Å	< 1Å (superpolish)
OD Tolerance	+0.0/- 0.1mm	+0.0/- 0.025mm
Thickness Tolerance	± 0.10mm	± 0.01mm
Clear Aperture	90%	100%
Wedge	< 30 arcsec	< 1 arcsec
Reflectivity	> 99.9%	> 99.995%
AOI	0° or 45°	custom
Transmission	T > 95%	T > 99%
AR Coating	R < 0.2%	R < 0.05%
* Before coating or after coating with Power removed. Contact us for information on stress compensated coatings.		

## About PPD

Perkins Precision Developments has a full range of shaping, grinding, polishing and coating equipment that allows us to produce a diverse mix of shapes and sizes of precision optical components and assemblies for a wide variety of applications.

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