

Prisms

WEDGE PRISMS

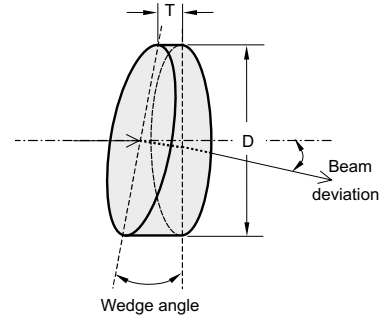
Features

- Steer beams in optical systems
- Can be used in pairs for continuous angular adjustment

Having selected an appropriate wedge, it is easy to create a precise beam deviation without affecting other beam parameters. If two wedges are used together with the sloping surfaces in close proximity, it is possible to produce a continuous variation of beam deviation by counter – rotating the wedges.

Wedge prisms are made from alternative materials, such as UV grade fused silica, and different shapes and sizes or with various anti-reflection coatings.

Contact us for other types of prisms
e.g. trapezoidal, various isosceles, Dove, Amici, Penta, etc.



Specifications

Material	BK7, UV FS
Clear aperture	90% of the diameter
Diameter tolerance	+0.00 / -0.12 mm
Wedge tolerance	±3 arcmin

STANDARD WEDGE PRISMS

Surface quality: 40 – 20 scratch & dig (MIL-PRF-13830B). Surface flatness: $\lambda/4$ @ 633 nm.

Material: BK7

Wedge, deg	Beam Deviation, deg		Ø12.7 × 3 mm		Ø25.4 × 3 mm	
	@ 1064	@ 532	Catalogue number	Price, EUR	Catalogue number	Price, EUR
0.5	0.25	0.26	310-0100E	25	310-0200E	30
1	0.51	0.52	310-0101E	25	310-0201E	30
2	1.01	1.04	310-0102E	25	310-0202E	30
3	1.52	1.56	310-0103E	25	310-0203E	30
5	2.54	2.60	310-0105E	25	310-0205E	30

Material: UV FS

Wedge, deg	Beam Deviation, deg			Ø12.7 × 3 mm		Ø25.4 × 3 mm	
	@ 1064	@ 532	@ 355	Catalogue number	Price, EUR	Catalogue number	Price, EUR
0.5	0.22	0.23	0.24	310-1100E	40	310-1200E	50
1	0.45	0.46	0.48	310-1101E	40	310-1201E	50
2	0.90	0.92	0.95	310-1102E	40	310-1202E	50
3	1.35	1.38	1.43	310-1103E	40	310-1203E	50
5	2.26	2.31	2.39	310-1105E	40	310-1205E	50

Most of the Prisms are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com



PRECISION WEDGE PRISMS

Surface quality: 20 – 10 scratch & dig (MIL-PRF-13830B). Surface flatness: $\lambda/10$ @ 633 nm.

Material: BK7

Wedge, deg	Beam Deviation, deg		Ø12.7 × 6 mm		Ø25.4 × 6 mm	
	@ 1064	@ 532	Catalogue number	Price, EUR	Catalogue number	Price, EUR
0.5	0.25	0.26	311-0100E	35	311-0200E	45
1	0.51	0.52	311-0101E	35	311-0201E	45
2	1.01	1.04	311-0102E	35	311-0202E	45
3	1.52	1.56	311-0103E	35	311-0203E	45
5	2.54	2.60	311-0105E	35	311-0205E	45

Housing accessories

Stable Steel Mirror/Beamsplitter Mount 840-0036

Find more at EksmaOptics.com



Material: UV FS

Wedge, deg	Beam Deviation, deg			Ø12.7 × 6 mm		Ø25.4 × 6 mm	
	@ 1064	@ 532	@ 355	Catalogue number	Price, EUR	Catalogue number	Price, EUR
0.5	0.22	0.23	0.24	311-1100E	50	311-1200E	60
1	0.45	0.46	0.48	311-1101E	50	311-1201E	60
2	0.90	0.92	0.95	311-1102E	50	311-1202E	60
3	1.35	1.38	1.43	311-1103E	50	311-1203E	60
5	2.26	2.31	2.39	311-1105E	50	311-1205E	60

LASER DISPERSING PRISMS

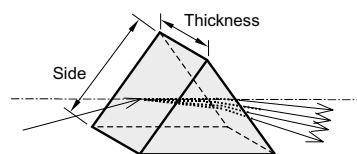
Features

- Separate light by wavelength
- Are made so that entrance and exit beams pass through at the Brewster angle

Like Brewster angle windows, laser dispersing prisms can be used inside the cavity of a laser operating on very low gain laser transitions, where even slight reflection losses may be intolerable.

Contact us for other types of prisms e.g. trapezoidal, various isosceles, Dove, Amici, Penta, etc.

Custom fabrication also available: coating, cutting, edging, drilling according to your specification.



Specifications

Material	BK7, UV FS, SF11
Surface quality	40 – 20 scratch & dig (MIL-PRF-13830B)
Surface flatness	$\lambda/4$ @ 633 nm
Apex angle tolerance	± 2 arcmin
Design wavelength	800 nm

Most of the Prisms are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com



Material	Maximum input beam diameter, mm	Side length, mm	Thickness, mm	Apex angle	Catalogue number	Price, EUR
BK7	6.0	15	10	67°	320-0110	40
UV FS	6.0	15	10	69°	320-1110	72
SF11	6.0	15	10	59°	320-8110	49
BK7	12.0	25	18	67°	320-0218	69
UV FS	12.0	25	18	69°	320-1218	125
SF11	12.0	25	18	59°	320-8218	95
BK7	22.0	50	25	67°	320-0525	140
UV FS	22.0	50	25	69°	320-1525	260
SF11	22.0	50	25	59°	320-8525	195