

## Precision Wedge Prisms

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

| Catalogue number<br>BK7 | Diameter D, mm |         | Thickness T,<br>mm | Wedge,<br>deg | Beam Deviation, deg |       | Price,<br>EUR |
|-------------------------|----------------|---------|--------------------|---------------|---------------------|-------|---------------|
|                         | Metric         | English |                    |               | @ 1064              | @ 532 |               |
| 311-0200                | 25.0           | 25.4    | 6                  | 0.5           | 0.25                | 0.26  | 56            |
| 311-0201                | 25.0           | 25.4    | 6                  | 1             | 0.51                | 0.52  | 57            |
| 311-0202                | 25.0           | 25.4    | 6                  | 2             | 1.01                | 1.04  | 57            |
| 311-0203                | 25.0           | 25.4    | 6                  | 3             | 1.52                | 1.56  | 58            |
| 311-0205                | 25.0           | 25.4    | 6                  | 5             | 2.54                | 2.60  | 59            |

Please add letter M to the catalogue number for metric dimensions and letter E for english.

| Catalogue number<br>UV FS | Diameter D, mm |         | Thickness<br>T, mm | Wedge,<br>deg | Beam Deviation, deg |       |       | Price,<br>EUR |
|---------------------------|----------------|---------|--------------------|---------------|---------------------|-------|-------|---------------|
|                           | Metric         | English |                    |               | @ 1064              | @ 532 | @ 355 |               |
| 311-1200                  | 25.0           | 25.4    | 6                  | 0.5           | 0.22                | 0.23  | 0.24  | 75            |
| 311-1201                  | 25.0           | 25.4    | 6                  | 1             | 0.45                | 0.46  | 0.48  | 75            |
| 311-1202                  | 25.0           | 25.4    | 6                  | 2             | 0.90                | 0.92  | 0.95  | 75            |
| 311-1203                  | 25.0           | 25.4    | 6                  | 3             | 1.35                | 1.38  | 1.43  | 75            |
| 311-1205                  | 25.0           | 25.4    | 6                  | 5             | 2.26                | 2.31  | 2.39  | 75            |

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## HOUSING ACCESSORIES

Stable Steel  
Mirror/Beamsplitter  
Mount 840-0036

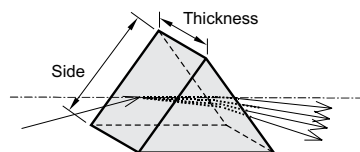
See page 8.61



## LASER DISPERSING PRISMS

- 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.



### SPECIFICATIONS

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

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.



Most of the Prisms  
are available for fast  
off-the-shelf delivery.  
Check the availability at  
[www.eksmaoptics.com](http://www.eksmaoptics.com)



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