# **Debris Shields**

#### **Product Information**

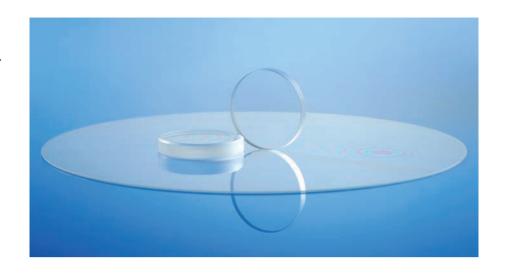
Debris shields can be used to protect laser optics against dust and pollution. Very high transmission at laser wavelength and low wavefront distortion are key points for Debris shields.

### **Applications**

Debris shields are used especially in high power laser systems to protect the laser optics against dust and fumes from experimental areas.

### **Advantages**

- Customized design
- High quality consistency
- High laser damage threshold
- High transmittance at laser wavelength
- Low wavefront distortion because of high homogeneity
- AR & customized coating possible



#### **Materials**

- SCHOTT N-BK7®
- BOROFLOAT®
- Fused Silica
- Other materials on request

## **Manufacturing Capabilities**

	Commercial Quality	Precision Quality	Ultra Precision Quality
Diameter		From 2 mm to 625 mm	
Diameter Tolerance	± 0.25 mm	± 0.050 mm	± 0.005 mm
Thickness Tolerance	± 0.20 mm	± 0.040 mm	± 0.020 mm
Parallelism	< 3 arc minutes	< 1 arc minutes	< 10 arc seconds
Surface Accuracy	2λ	λ/4	λ/20*
Surface Quality (Scratch & Dig)	80/50	60/40	10/5
Surface Roughness	5 nm	2 nm	5Å rms
AR Coating	$R_{\text{avg}} < 1.5\%$	$R_{\text{avg}} < 0.5\%$	Custom Designed
Order Quantity**	From 1 piece to series production		
Delivery Time**	4 – 6 weeks	4 – 6 weeks	4 – 10 weeks

<sup>\*</sup> Depending on geometry



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<sup>\*\*</sup> Depending on customer specification. Please call your sale representative