

# Prisms

## Product Information

Prisms are transparent optical elements with flat polished surfaces that refract, reflect or disperse light. They allow easy positioning within an optical system and have excellent thermal stability. A total internal reflection is possible, avoiding light loss in the optical path.

## Advantages

- SCHOTT masters the entire value chain from raw glass to coated cemented prisms
- Custom designed products at competitive prices
- 1 piece through series production levels
- Coating: all substrates coated to a specific custom design
- Sub Assembly: extensive expertise in gluing and cementing to integrate prisms in custom designed hardware

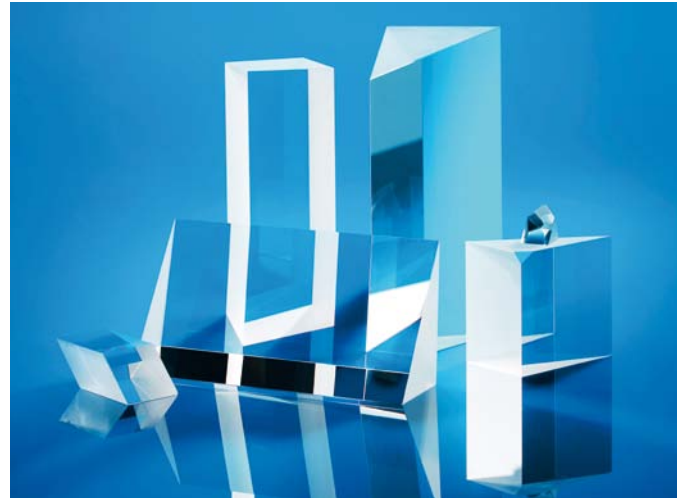
## Materials

- Optical glasses such as N-BK7HT, N-BAK4HT, N-SK2HT, SF57HTultra, SF6HT
- Fused silica

## Manufacturing Capabilities

Attribute	Commercial Quality	Precision Quality	Ultra Precision Quality
Size	10 to 200 mm	10 to 200 mm	10 to 200 mm
Size Tolerance*	± 0.2 mm	± 0.1 mm	± 0.05 mm
Angle Tolerance*	< 1.5 arc minutes	< 1 arc minutes	< 10 arc seconds
Surface Accuracy*	1 λ	λ/4	λ/10
Surface Quality (Scratch & Dig)*	80/50	40/20	20/10
AR Coating*	Ravg < 1.5 %	Ravg < 0.5 %	Custom designed
Order Quantity*	From 1 piece to series production*		
Delivery Time*	6–10 weeks	6–10 weeks	6–10 weeks

\*Depending on customer's specification. Please call sales representative.



## Examples of Products

- Right angle prisms
- Rhomboid prisms
- Pentaprisms
- TIR prism
- Cube beamsplitter



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