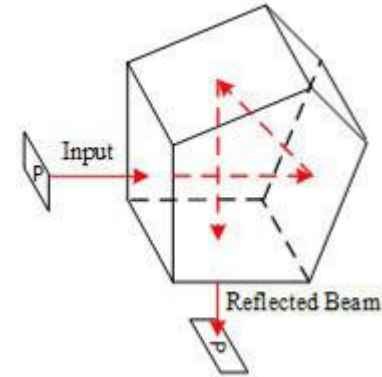


Pentagon Prism

Precision/ Custom

An optical pentagonal prism is an optical element used to change the direction of a light beam, usually made of highly transparent glass or other optical materials. It has five planar surfaces, two of which are used for incoming and outgoing light and the other three for internal reflection. The unique design of the Pentagon prism enables it to deflect the incoming beam by a specific Angle, usually 90 degrees or other predetermined Angle, without changing the beam's directivity and polarity. This prism is widely used in optical instruments, laser systems and measurement equipment to precisely control the optical path and realize the directional transmission of the beam.



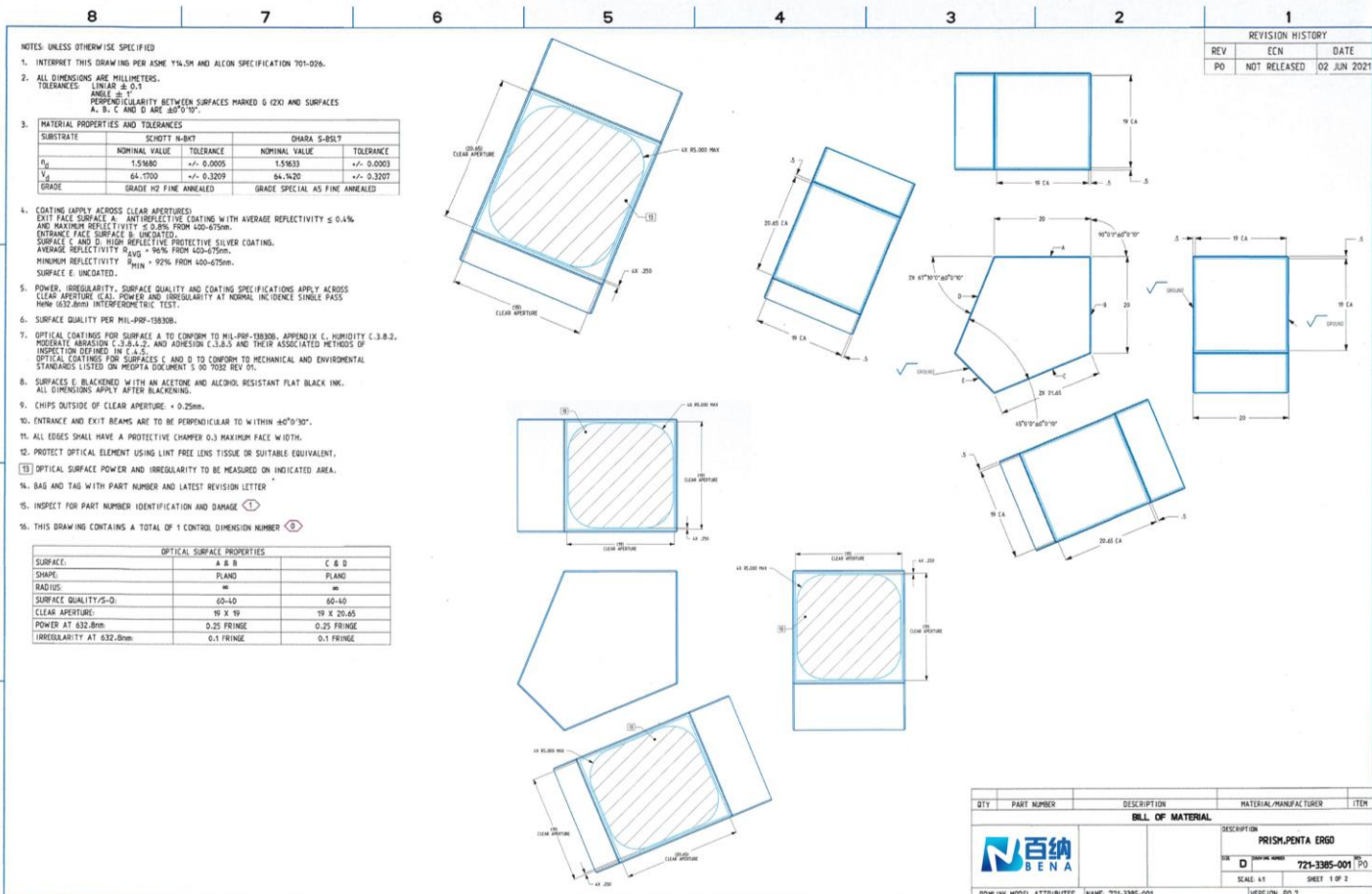
Pentagonal prisms exert a significant role in a diverse range of optical applications demanding precise control over the path and direction of the beam.

- Beam deflection
- Beam separation
- Laser system
- Optical instrument
- Imaging system
- Optical communication



- Fixed Deflection Angle
- High Stability
- Beam Directionality Maintenance
- High Precision Manufacturing
- Versatility

DRAWING SHOW

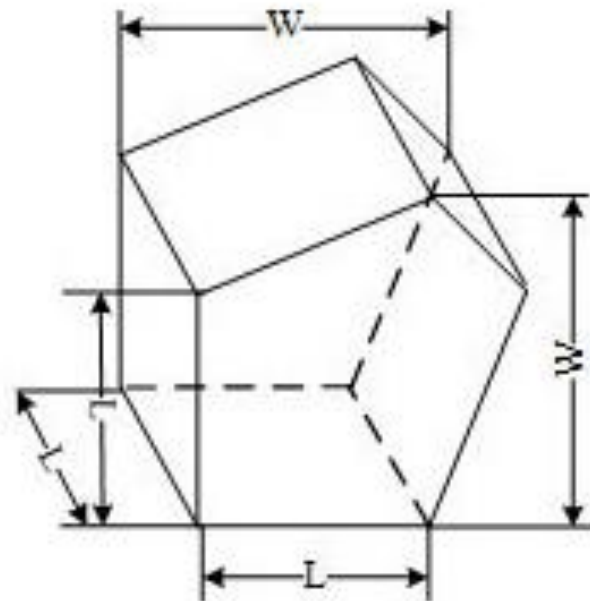


DWG 100-3385-001

QTY	PART NUMBER	DESCRIPTION	MATERIAL/MANUFACTURER	ITEM
BILL OF MATERIAL				
		DESCRIPTION PRISM,PENTA ERGO		
		D SCALE: 1:1 SHEET 1 OF 2	721-3385-001 PO	
PDM LINK MODEL ATTRIBUTES NAME: 721-3385-001 VERSION: PO-2				

SPECIFICATION AND LIST

	commercial spec.	Precision spec.
Material:	N-BK7 Grade A Fine Anneal	
Diameter Tolerance:	±0.1mm	±0.05mm
Angular Tolerance:	≤2 arc min	≤5 arc sec.
Flatness:	λ/4 @ 632.8nm	λ/10 @ 632.8nm
Surface Quality:	40/20	20/10
Clear Aperture:	>75%	>90%
Bevel:	<0.25mm X 45°	<0.15X 45°
Coating:	Single layer MgF ₂ coating	
	Aluminized and painted black	



Custom Pentagon prisms would be supported

Type No.	Dimension	Clear aperture
PP-10	10.0mm *10.0mm*10.0mm	7.0mm*7.0mm*7.0mm
PP-20	20.0mm*20.0mm*20.0mm	14.0mm*14.0mm*14.0mm
PP-40	40.0mm*40.0mm*40.0mm	28.0mm*28.0mm*28.0mm
PP-60	60.0mm*60.0mm*60.0mm	42.0mm*42.0mm*42.0mm

Bena Optics hold that a company should be as tolerant / encompassing as the vast ocean which admits hundreds of rivers and should draw upon other's strengths.



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