

# Beamsplitter Penta Prisms

By adding a wedge and with partial reflective coating on first reflective surface, penta prism can be used as beamsplitter.

## Features

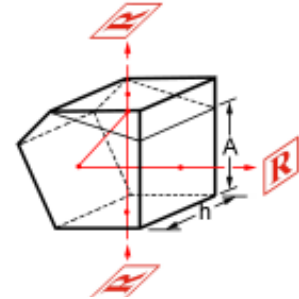
- High Precision Dimension
- High Precision Angle Control
- Optional Beamsplitter Ratio

## Applications

- Projection Optics System
- Imaging Optics System
- Optical Display System
- Optical Measurement System

## Specifications

|                         |  |
|-------------------------|--|
| Material                | BK7  |
| Dimension tolerance     | ±0.2mm   |
| 90° Deviation tolerance | See the table  |
| Surface quality         | 60-40 S/D  |
| Surface flatness        | $\lambda/2$ (standard), $\lambda/4$ (high precision)@632.8nm |
| Clear aperture          | >85%   |
| Bevel                   | Protective bevel   |
| Reflectivity            | R>95%per face @400-700nm                                     |
| Beamsplitter ratio T/R  | 20/80±5, 50/50±5   |
| Coating                 | Uncoated on entrance & exit surface                          |



## Standard Products

| Size(mm)   | 1 Min. Deviation | 30 Sec. Deviation | 15 Sec. Deviation |
|------------|------------------|-------------------|-------------------|
| A x h      | Part No.         | Part No.          | Part No.          |
| 7.0 x 6.0  | HSPP0101         | HSPP0201          | HSPP0301          |
| 10.0 x10.0 | HSPP0102         | HSPP0202          | HSPP0302          |
| 15.0 x15.0 | HSPP0103         | HSPP0203          | HSPP0303          |
| 20.0 x20.0 | HSPP0104         | HSPP0204          | HSPP0304          |