

# Test Target Holders Beam Dumps

TGH  
BD

## TGH

RoHS Catalog Code W4049

Fixtures used for optical axis adjustment of non-visible lasers. Insert IR sensor cards or van paper in the path using the spring clips, rotate cross wires into the laser light to confirm the positional relationship of the shadow of beam and cross wire.

- The cross wires are retractable and are placed in the center of posts to enable good repeatability.
- If two target holders are placed leaving an interval, they can be used as a laser beam tilt adjustment jig.



Specifications				Primary material: Aluminum Finish: Black Anodized
Part Number	Options specified*	Clear Aperture [mm]	MAX Holding Thickness [mm]	Weight [kg]
TGH-30	N/UU	φ30	3	0.09

\* For specifying options, please refer to "Conversion of Posts, Post Holders and Pedestal Bases of Holders". [Reference](#) C007

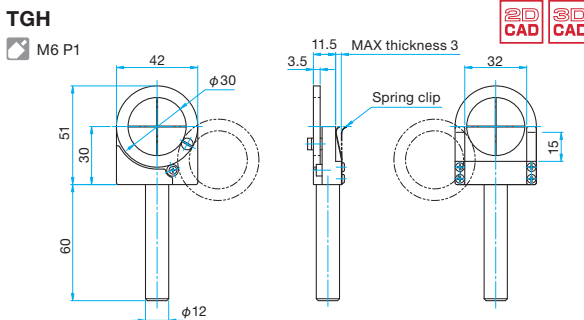
### Guide

- ▶ Iris diaphragm (IH) convenient for visible light lasers is also available. [Reference](#) C063

### Attention

- ▶ Use IR sensor cards with large light receiving surface. Card type IR/UV sensors (SIRC-1 or SUVC-1) cannot be used.

### Outline Drawing



## BD

RoHS Catalog Code W4050

Beam Dumps safely terminate the beam of high-power lasers and high energy pulse lasers. The laser light is scattered and absorbed in the beam dump and converted into heat.

- Because the incident laser beam is scattered onto a conical surface, the light scatter back to the incident side can be greatly attenuated.
- BD-40 for small beam diameter (φ5mm or less) and BD-80 for large diameter beams (φ30mm or less) are available.



Specifications				Primary material: Aluminum Finish: Black Anodized
Part Number	Options specified*	Aperture Diameter [mm]	Weight [kg]	
BD-40	N/EE/UU	φ10	0.15	
BD-80	N/EE/UU	φ52	0.65	

\* For specifying options, please refer to "Conversion of Posts, Post Holders and Pedestal Bases of Holders". [Reference](#) C007

### Guide

- ▶ High-power laser shutters (SHPS) combining optical path switching shutter and beam diffuser are available. [WEB Reference](#) [Catalog Code](#) W4110

### Attention

- ▶ When used with a high-power laser, the beam diffuser might become quite warm. Be careful not to touch the beam diffuser directly.
- ▶ When used with a high energy pulse laser, the finish of the conical surface may be lost. The volume of scattering will increase somewhat, but as long as the conical shape is not changed, the beam diffuser will maintain performance.
- ▶ When a repeatedly oscillating high energy pulse laser irradiates the beam diffuser, the beam diffuser sometimes makes a sound like it is striking metal. This is due to the shock wave produced when the laser changes to heat on a metallic surface, not damage on the beam diffuser.

### Outline Drawing

