

56 Sparta Avenue • Newton, New Jersey 07860  
(973) 300-3000 Sales • (973) 300-3600 Fax  
www.thorlabs.com

**THORLABS**

## XT34J - Jul 8, 2020

Item # XT34J was discontinued on July 8, 2020. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

### RAIL JOINER FOR 34 MM RAILS

- ▶ **Extend Existing Rail Segments**
- ▶ **1/4"-20 Tapped Hole Compatible with Standard Optomechanics**
- ▶ **Ø25 mm Clear Aperture**



XT34J



XT34J Mounted on  
RS2P Ø1" Pedestal Post

[Hide Overview](#)

## OVERVIEW

### Features

- Links Two 34 mm Rail Segments End to End
- 1/4"-20 Tapped Hole on all Four Sides for Post Mounting
  - AS6M25E and AP25E6M 1/4"-20 to M6 Adapters Available
- Ø25 mm Clear Aperture
- Eight M3 Cap Screws Included

The XT34J Rail Joiner adapts two standard 34 mm rails together at their ends, allowing the construction of long rail sections from smaller segments of rail. Eight M3 cap screws are provided with the rail joiner, which can be threaded into the tapped holes on the rail ends with a 2.5 mm balldriver (not included). To maintain a straight edge along both the X and Y axes, Thorlabs recommends that the rails are held against a hard corner while the rail joiner is tightened.

The Ø25 mm bore can be used as a beam path in conjunction with our XT34-to-SM1 adapter. Though this aperture is slightly smaller than the Ø29 mm bore of a standard 34 mm rail, it is nearly the same as that of a Ø1" lens tube.

Please note that when the rail joiner is installed, the dovetail profile along the side of the 34 mm rail is interrupted, which prevents dovetail components from being clamped to that section of the rail.

Thorlabs offers a wide and growing complement of accessories for 34 mm rails, including clamps and angle brackets, breadboard mounts, rail carriers, mounting platforms, lens tube adapters, and rail joiners. Together with size adapters that incorporate 66 mm and 95 mm rails into an XT34 setup, these tools provide a complete family of rigid, versatile building blocks suited for virtually any optomechanical setup.

**Note:** We are in the process of updating this product line. Due to worldwide delays in business activity, the anticipated release date for the new version of these products has been delayed. Currently, the imperial option available is universal except for the 1/4"-20 thread standard used for post mounting.

XT34 34 mm Optical Rail Accessories								
								
Rails	Rail Platform Positioners	Clamps and Angle Brackets	Breadboard Mounting	Size Adapters	Rail Joiners	Rail Carriers	Mounting Platforms	Lens Tube Adapter

[Hide.](#)

Part Number	Description	Price	Availability
XT34J	XT34 Rail Joiner, 8 Cap Screws Included	\$40.04	Today