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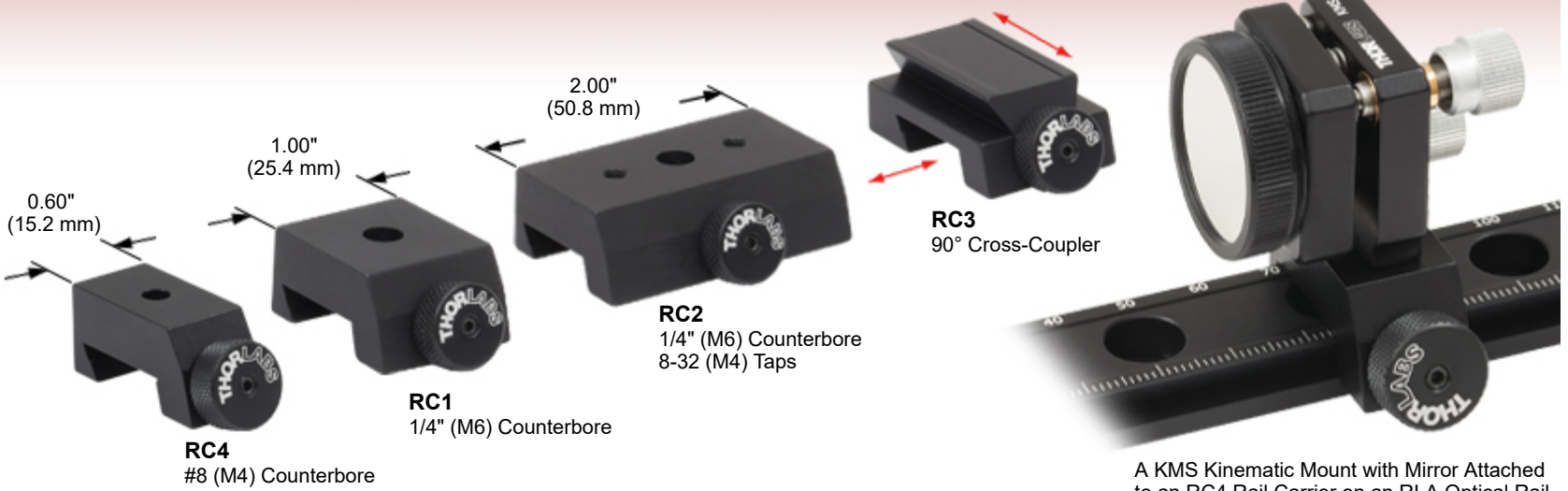
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Find the *ThorLabs RC1* at our website: *Click HERE*

Dovetail Rail Carriers

- Mount Components on Dovetail Rails
- Perpendicular Dovetail Carrier Allows Transverse Adjustments



Application Idea

A KMS Kinematic Mount with Mirror Attached to an RC4 Rail Carrier on an RLA Optical Rail

Related Items

Dovetail Optical Rails



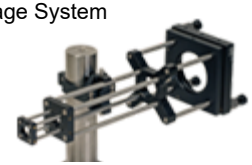
Construction / Optical Rails



1/2" (12.7 mm) Dovetail Stage



Cage System



Overview | Feedback

Features

- Rail Carriers Mount Components to Dovetail Rails
- Thumbscrew Clamp with Rounded, Spring-Loaded Plastic Tip
- 8-32 (M4) and 1/4"-20 (M6) Compatible Options

Thorlabs' Dovetail Optical Rail Carriers are designed to mount components to our RLA Dovetail Optical Rails. Once attached, these rail carriers enable one-dimensional movement of optomechanics at any position along the length of the rail. They are precision machined on all surfaces in order to maintain good lateral alignment while being translated, and can be easily placed into any existing rail system without requiring access to the rail ends.

RLA Dovetail Rail Accessories

				
Rails	Rail Carriers	Rail Carrier Positioners	Mounting	Cage Mounting

These rail carriers are provided in four varieties. The RC4 is a compact 0.60" long rail carrier platform that features a #8 (M4) counterbore for mounting lightweight optomechanical components. The RC1 is 1" long and features a 1/4" (M6) counterbored hole. The RC2(/M) is 2" long to accommodate larger components and provides two 8-32 (M4) tapped holes and a 1/4" (M6) counterbored hole. The RC2(/M) also comes with an SD1 adapter ring, which allows a #8 (M4) cap screw to be used within the 1/4" (M6) counterbored holes. The RC3 provides a dovetail perpendicular to that of the RLA rail it is mounted on, allowing an RC1, RC2, or RC4 to be attached on top to provide coarse transverse adjustments.

Dovetail Rail Carrier, #8 (M4) Counterbore



Zoom

0.60" x 1.00" (15.2 mm x 25.4 mm) Carrier Platform

#8 (M4) Counterbored Hole for Mounting

The RC4 Rail Carrier is designed to mount optomechanical components on an RLA dovetail rail using a #8 (M4) counterbore. The carrier can be placed onto the rail anywhere along its length without requiring access to the rail ends. The spring-loaded plunger built into the locking thumbscrew provides wobble-free translation as the carrier slides along the rail.

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available
+1			**RC4**	Dovetail Rail Carrier, 0.60" x 1.00" (15.2 mm x 25.4 mm), #8 (M4) Counterbore	$26.94	Today

Add To Cart

Dovetail Rail Carrier, 1/4" (M6) Counterbore

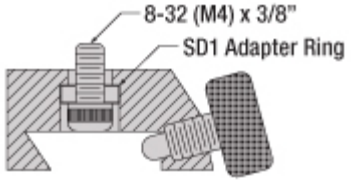


Zoom

1.00" x 1.00" (25.4 mm x 25.4 mm) Carrier Platform

1/4" (M6) Counterbored Hole for Mounting

The RC1 Rail Carrier is designed to mount optomechanical components on an RLA dovetail rail using a 1/4" (M6) counterbore. It can also mount 8-32 (M4) tapped components when used with the SD1 counterbore adapter ring (not included). The carrier can be placed onto the rail anywhere along its length without requiring access to the rail ends. The spring-loaded plunger built into the locking thumbscrew provides wobble-free translation as the carrier slides along the rail.



Rail Carrier Cross Section with SD1 Counterbore Adapter Ring (Not Included)

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available
+1			**RC1**	Dovetail Rail Carrier, 1.00" x 1.00" (25.4 mm x 25.4 mm), 1/4" (M6) Counterbore	$26.94	Today

Add To Cart

Dovetail Rail Carrier, 1/4" (M6) Counterbore, 8-32 (M4) Taps



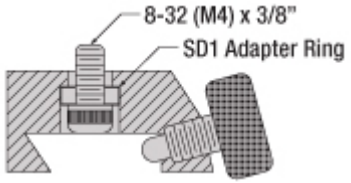
Zoom

Large 2.00" x 1.00" (51 mm x 25 mm) Carrier Platform

1/4" (M6) Counterbored Hole and Two 8-32 (M4) Tapped Holes for Mounting

SD1 Counterbore Adapter Ring Included

The RC2(/M) Rail Carrier is designed to mount optomechanical components on an RLA dovetail rail using a 1/4" (M6) counterbore and two 8-32 (M4) tapped holes. An SD1 counterbore adapter ring is included for mounting 8-32 (M4) tapped components in the 1/4" (M6) counterbored hole. The carrier can be placed onto the rail anywhere along its length without requiring access to the rail ends. The spring-loaded plunger built into the locking thumbscrew provides wobble-free translation as the carrier slides along the rail.



Rail Carrier Cross Section with Included SD1 Counterbore Adapter Ring

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Imperial		Price	Available
+1			**RC2**	Dovetail Rail Carrier, 2.00" x 1.00", 1/4" Counterbore, 8-32 Taps	$31.12	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
+1			**RC2/M**	Dovetail Rail Carrier, 50.8 mm x 25.4 mm, M6 Counterbore, M4 Taps	$31.12	Today

Add To Cart

Perpendicular Dovetail Rail Carrier



Zoom

1.25" (31.8 mm) Long Dovetail Perpendicular to Rail

Allows Coarse Transverse Adjustments

The RC3 Perpendicular Dovetail Rail Carrier provides a 1.25" (31.8 mm) dovetail surface perpendicular to the RLA dovetail rail on which it is clamped. This allows for transverse translation of an RC1, RC2, or RC4 rail carrier (sold above) in the direction perpendicular to the RLA rail.



Click to Enlarge

View Imperial Product List

View Metric Product List

RC3 and RC1 Rail Carriers Attached to an RLA0600 Optical Rail

Based on your currency / country selection, your order will ship from Newton, New Jersey

+1	Qty	Docs	Part Number - Universal		Price	Available
+1			**RC3**	Rail Carrier, Perpendicular Dovetail	$32.47	Today

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