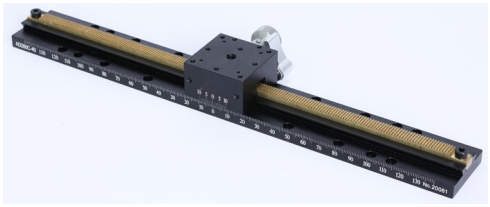
AD Series Rack and Pinion Linear Stages, 40–360 mm Travel, Dovetail Guide

Model AD Series · waveqvanta.com/products/ad-series-rack-and-pinion-linear-stages

Aluminum rack and pinion stages with dovetail guide for fast, lockable manual positioning over long travel.



AD series manual linear stages use a rack and pinion drive running on a dovetail auxiliary guide, giving quick adjustment over travels from 40 to 360 mm. The body is hard aluminum alloy with a black anodized finish, and the stage offers a vernier scale and a locking function. Two platform sizes are available: 40 × 40 mm and 60 × 60 mm.

Key features

- Rack and pinion drive (module m = 0.5) for quick adjustment
- Dovetail guide for stable motion and load capacity
- Travel from 40 mm to 360 mm
- Vernier scale with 0.1 mm minimum reading
- Locking function
- Central load capacity 5 kg (40 × 40 mm) or 6 kg (60 × 60 mm)
- Black anodized hard aluminum alloy body

Specifications

Axes of Travel	X (single axis)
Travel Range	60–360 mm (40 × 40 mm stage); 40–340 mm (60 × 60 mm stage)
Stage Surface Size	40 × 40 mm or 60 × 60 mm
Thickness	30 mm (40 × 40 mm stage); 34 mm (60 × 60 mm stage)
Drive Type	Rack and pinion, m = 0.5
Guide Mechanism	Dovetail guide
Vernier Minimum Reading	0.1 mm
Locking	Yes
Central Load Capacity	5 kg (40 × 40 mm stage); 6 kg (60 × 60 mm stage)
Weight	0.25–1.2 kg
Body Material and Finish	Black anodized aluminum alloy

Model overview

Model	Travel (mm)	Stage Size (mm)	Thickness (mm)	Central Load (kg)	Weight (kg)
AD60C-40	60	40 × 40	30	5	0.25
AD160C-40	160	40 × 40	30	5	0.4
AD260C-40	260	40 × 40	30	5	0.55
AD360C-40	360	40 × 40	30	5	0.7
AD40C-60	40	60 × 60	34	6	0.45
AD140C-60	140	60 × 60	34	6	0.7
AD240C-60	240	60 × 60	34	6	0.95
AD340C-60	340	60 × 60	34	6	1.2

Typical applications

- Long-travel manual positioning
- Rapid repositioning of optical mounts and fixtures
- Optical rail and bench setups

- Laboratory and teaching setups