USER MANUAL

DXG6042 | Single Rail Manual Linear Stage

Product Overview

Precision manual positioning stage with SFU1605 ball screw, MGW12R guide rail, handwheel operation and locking lever.

Features

Product Type	Manual Linear Stage
Drive System	SFU1605 Ball Screw
Guide System	MGW12R Rail / MGW12C Carriage
Operation	Manual Handwheel with Locking Lever
Travel Length	50-1200 mm Optional
Load Capacity	60 kg Horizontal / 30 kg Vertical (Max.)
Material	Aluminum Alloy

Applications

CNC Machinery | Robotics | Laboratory Equipment
Packaging Machinery | Model Making

TECHNICAL SPECIFICATIONS

DXG6042 | Product parameters

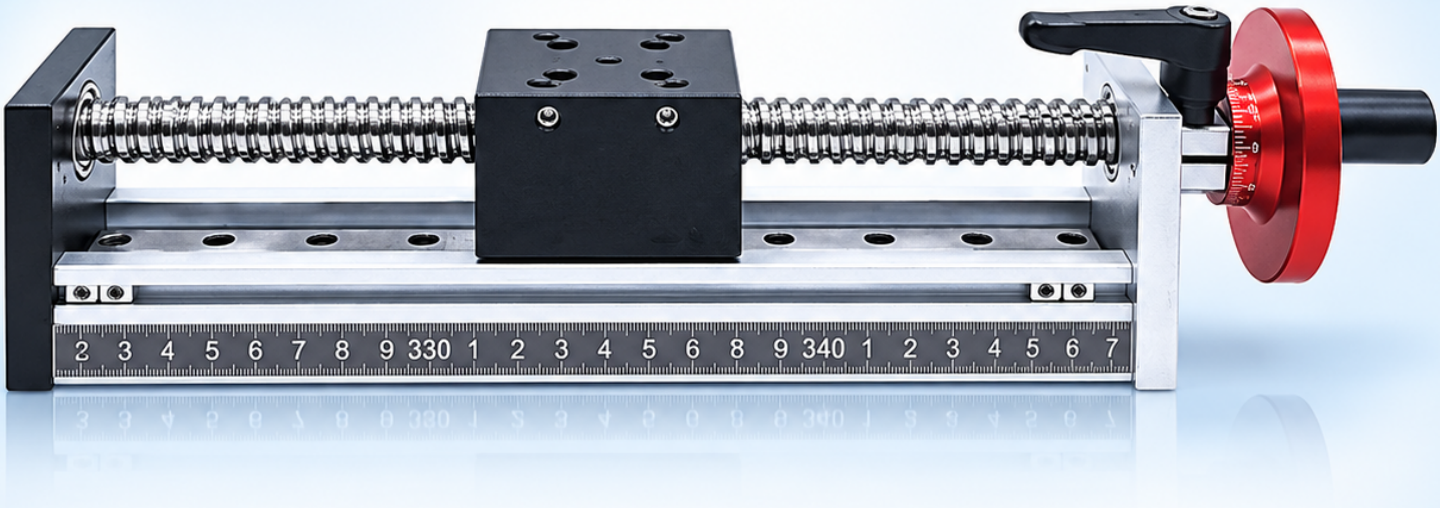
Specifications

Model	DXG6042
Ball Screw Type	SFU1605
Ball Screw Diameter	16 mm
Ball Screw Lead	5 mm
Ball Screw Accuracy Grade	C7
Effective Stroke	50-1000 mm Optional
Overall Length	Effective Stroke + 180 mm
Moving Platform Size	60 x 42 mm
Guide Rail Size	12 mm
Guide Rail Model	MGW12R
Slider Model	MGW12C
Max. Horizontal Load	60 kg
Max. Vertical Load	30 kg
Max. Speed	500 mm/s
Repeat Positioning Accuracy	0.02-0.03 mm
Material	Aluminum Alloy
Drive Method	Manual Handwheel

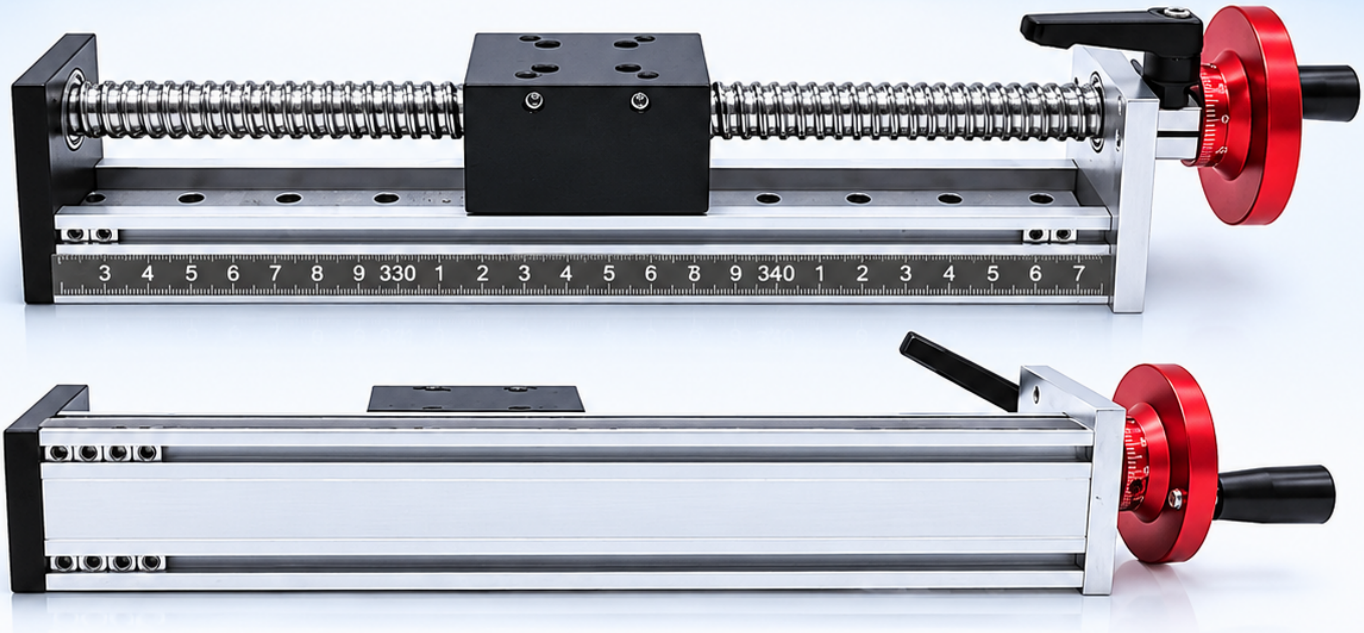
Manual Linear Rail Stage

Effective Stroke: 50 – 1200 mm

(Please choose the appropriate stroke length as needed)



Single Rail Manual Linear Stage



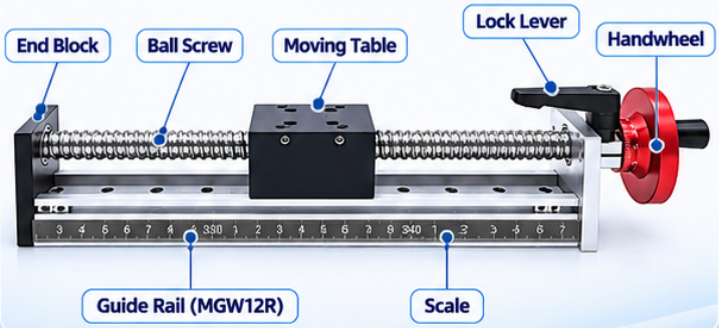
Specifications

Ball Screw Accuracy	C7 Level
Effective Stroke	100 mm – 1000 mm (Optional)
Moving Table Size	60 mm × 42 mm
Shaft Diameter	12 mm
Guide Type	MGW12R
Carriage Type	MGW12C
Max. Horizontal Load	60 kg (Max)
Max. Vertical Load	30 kg (Max)
Maximum Speed	500 mm/s
Ball Screw Repeatability	0.02 – 0.03 mm
Material	Aviation Aluminum

Product Features

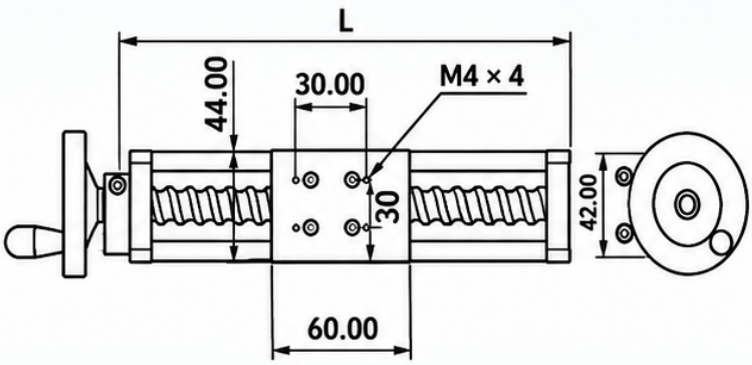
- High Accuracy (C7)
- Long Stroke (100–1000 mm)
- High Load Capacity (H: 60 kg / V: 30 kg)
- Lightweight & Durable (Aluminum)

Structure Diagram

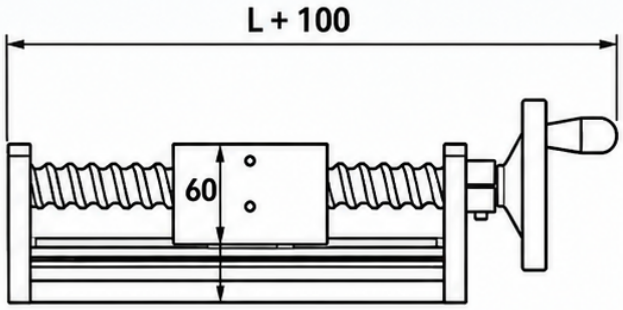


Linear Rail Slide – Technical Drawing

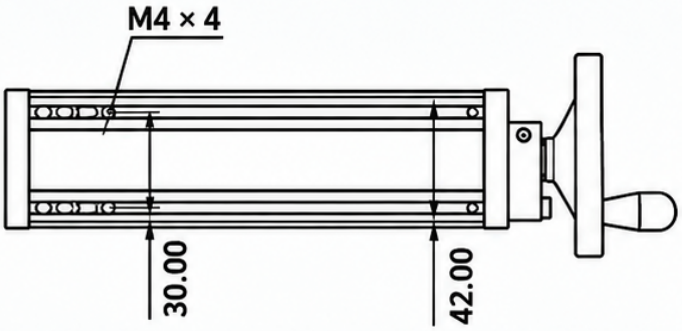
Top View



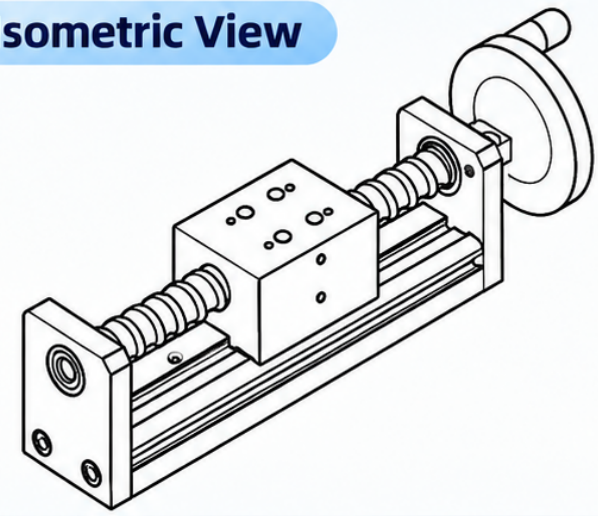
Side View



Bottom View



Isometric View



Units: mm