User guide

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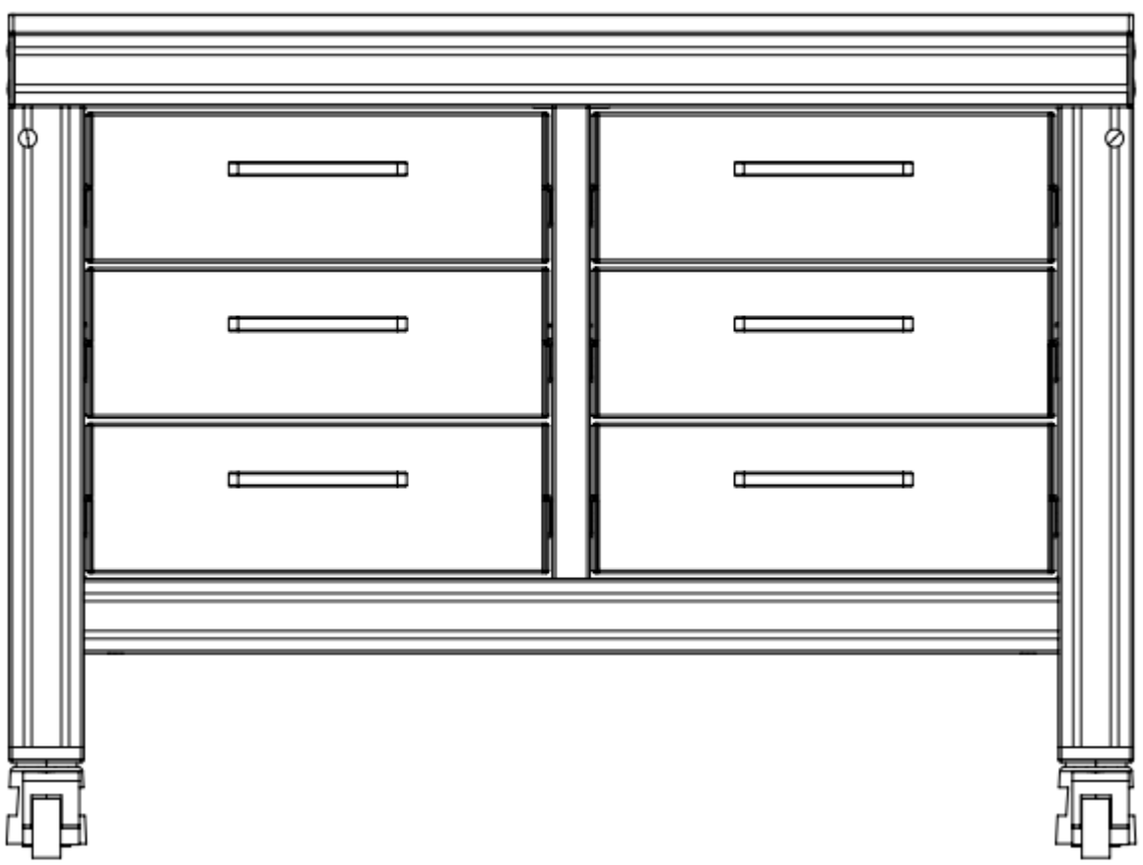
Renishaw metrology tables



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Contents

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Introduction

Renishaw metrology tables are manufactured using cast aluminium plate tops, supported by a rigid aluminium extruded frame and legs.

The tables are supplied with heavy duty castors that allow portability and an easy-to-use mechanism for locking to the floor substrate.

The metrology tables come fully assembled.

The fixturing top plate is secured to the metrology table frame with mounting holes, providing stability and rigidity. This also allows you to mount heavy parts to the table without the top plate flexing or distorting. The fixture plate is supplied in either hard-coat clear anodising or optional black anodising, which is better suited for non-contact optical inspection purposes.

All plates come with alpha-numeric labelling as standard, to assist in correctly documenting each fixture set-up.

Intended use

A modular table construction providing flexibility to mount portable co-ordinate measurement machines (CMMs).

Warnings

- Do not open all of the drawers at once to avoid the table tipping.
- Take care when moving the table that the drawers do not open.
- Only use the table for its intended use.
- Ensure parts are fixtured safely and securely. If you need advice on how to do this contact your local sales representative.
- Before moving the table ensure parts are secured.
- Tension clamps can become loose when the table is moved.
- It is recommend that you complete your own workplace risk assessment before using the table.
- Ensure wheels are kept clean of any debris.
- Ensure the table top is level before you begin fixturing.

Mobility and stability

Each table is equipped with four castors that are specially designed to ensure easy mobility and precise positioning. Each castor features an extending support foot that provides stability to the table and allows for levelling on non-level surfaces.

Locking castors

Locking castors for easy movement and positioning of trolleys, benches and assemblies.

Technical data

Caster body material	Aluminium
Wheel material	Nylon 66
Support foot material	Nitrile butadiene rubber (NBR)
Load capacity	400kg per castor (refer to metrology tables data sheet for table load capacity)

Caster adjustment

Retracting the support foot for movement

1. Rotate orange hand wheel (see figure 1) clockwise (viewed from tabletop) to retract the support foot.

    a. Should the foot be under load, the orange hand wheel may not be movable by hand. If this is the case, a hexagonal drive feature below the wheel can be rotated using a 17mm A/F spanner.

    b. Once load has been removed from the foot, the orange hand wheel may be rotated by hand.

2. Repeat for the remaining wheels, working around the table in sequence, progressively adjusting the height of each foot until the table is supported on the wheels.

3. Continue to rotate the orange hand wheel until the foot is fully retracted into the caster body (see figure 2).

Figure 1: Image of caster, showing orange hand wheel.

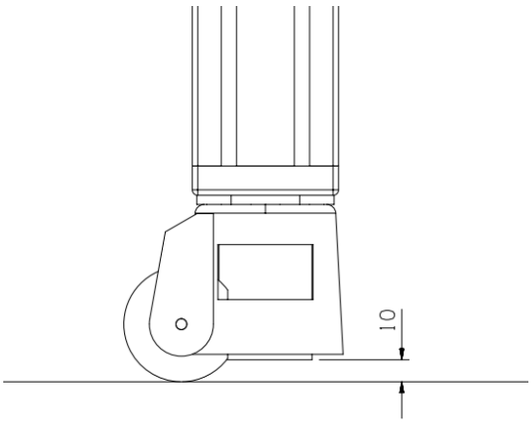

Figure 2: Image of retracted support foot

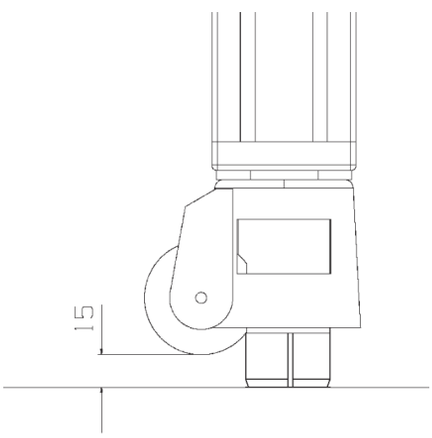

Figure 3: Image of fully extended support foot

NOTE: Care must be taken when retracting the support foot, as the table may become unstable during this process.

Extending the foot to secure table in place

1. Position the table in the desired location.
2. Rotate orange hand wheel (see figure 1) anti-clockwise (viewed from tabletop) to extend the support foot.
    a. The orange hand wheel will progressively become harder to move by hand so the hexagonal drive feature below the wheel can be rotated using a 17mm A/F spanner
3. Repeat for the remaining 3 wheels, working around the table in sequence, progressively adjusting the height of each foot until the table is level in all directions. See figure 3 for maximum travel of support foot.

NOTE: Care must be taken when extending the support foot, as the table may become unstable during this process.

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