

Thermo Scientific™ Orbitor™ RS2 Microplate Mover



The Thermo Scientific Orbitor RS2 is an upgraded, compact bench top mover with integrated barcode scanning for greater flexibility. Its innovative bi-directional telescoping arm provides exceptional reach and precision while its expansive 360° workspace makes it a great laboratory productivity partner. This reliable, simple and collaborative robot easily accesses the most complicated instruments and increases efficiency as the centerpiece of various high-throughput applications.

Efficient and Reliable

The Orbitor RS2 is a compact platemover with unmatched speed and accuracy. The integrated barcode scanner enables sample tracking, barcode transmission and inventory management. While the plate detection in the gripper helps to eliminate labware handling errors and reduces the risk of lost samples. Built upon our heritage of robotics leadership and integration expertise, the Orbitor RS2 is a sound, reliable investment for any lab.

Develops with your needs

Because it is one of the most flexible movers in the market, users often invest in the Orbitor RS2 for single instrument loading and later request additional instrumentation and integration. Orbitor solutions can easily be upgraded in the

field, either adding multiple devices for operation pooling or with sample preparation instrumentation. It also provides a wide selection of plate storage options, with combinations of sequential access stacks or random access hotels and storage carousels. Orbitor RS2 can also be placed on a track axis to capture even more of your evolving workflow.

Designed for Safety

Orbitor RS2 is inherently safe, so can work in direct cooperation with a person in a defined, purpose built workspace without guarding or shielding. Not only does it meet the rigorous international standards for collaborative robots, novice and experienced automation users also appreciate the Orbitor RS2's range of integrated safety features.

The overhead gripper in the arm naturally avoids the possible issues of protruding off-set fingers used by other movers, and force control stops all movement at the slightest contact.

Maximises uptime

We have flexible post-warranty support options which help users avoid the lengthy hassles of mover diagnostics and repair.



Thermo Scientific Orbitor RS Specifications

Axis/Joint Specifications

Axis	Range	Velocity	Acceleration
Z (height)	575mm	750mm/sec	2250mm/sec ²
Radius (reach)	±406mm	200mm/sec	3600mm/sec ²
Theta (rotation)	Infinite	225deg/sec	675deg/sec ²
Gripper Stroke	51mm		

General Specifications

Power Requirements	110-230V auto switching
Operating Environment	4 - 40°C, non-condensing
Safety Compliances	CE, CSA
Weight	25kg
Motion Control	Closed Loop Servo, Brushless AC Motor
Control	Directly from PC, requires Windows 7 or 10 operating system.

Storage Options

Hotels

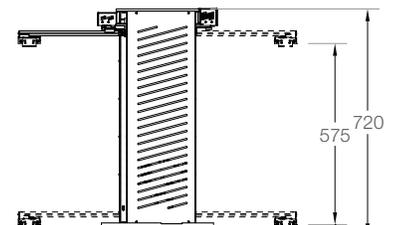
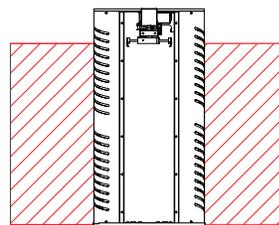
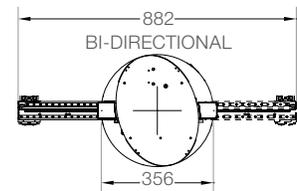
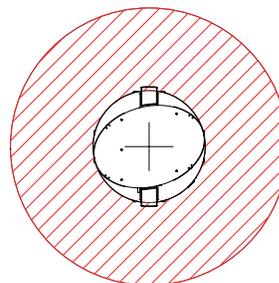
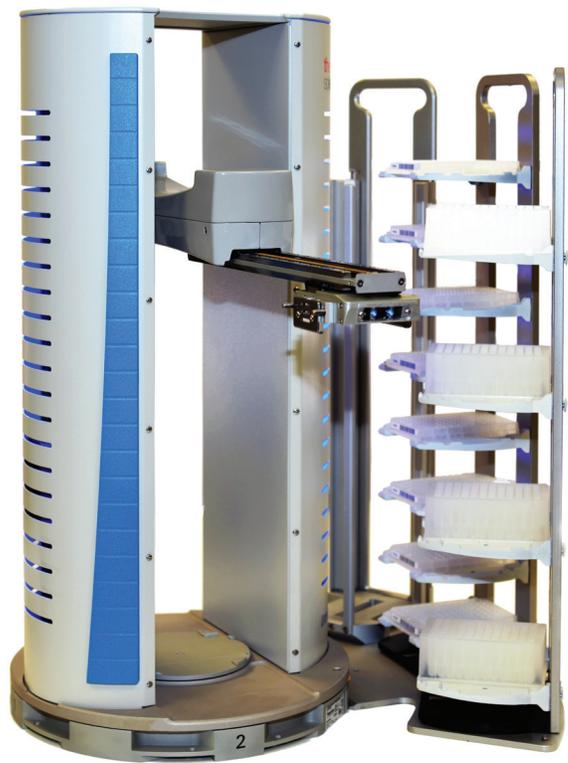
Random Access	8 plates per hotel
Sequential Access	40 plates per hotel

Maximum Capacity with Hotels

Random Access	72 plates
Sequential Access	360 plates

Gripper Details

Handles most SBS- standard labware
Landscape or Portrait
Easily handles lids
Plate detection in the gripper
Adjustable gripping force and speed settings
Compatible with many plate types



WORKSPACE

ALL DIMENSIONS IN MM

Find out more at thermofisher.com/OrbitorRS2

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