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Automated productivity  
Reliable, simple and robust

**Thermo Scientific™ Orbitor™ RS2** - an upgraded, compact bench top microplate mover with integrated barcode scanning for greater flexibility

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# Your laboratory productivity partner

Scientists looking for an easy-to-use, flexible and reliable instrument loading solution can depend on the Thermo Scientific™ Orbitor™ RS2 microplate mover. Orbitor RS2 is an updated, collaborative bench-top mover that provides unbeatable reliability and improved process efficiency. Its innovative bi-directional telescoping arm provides exceptional reach and precision, while its expansive 360° workspace makes it a great laboratory productivity partner.

The Orbitor RS2 microplate mover increases efficiency as the centerpiece of various high-throughput automation operations:

- Integrated barcode scanner enables sample tracking, barcode transmission and inventory management
- Plate detection in the gripper helps to eliminate labware handling errors and reduces the risk of lost samples
- Variable force settings based on plate type and sample weight make it compatible with many plate types and a broad range of applications



## Orbitor RS2

### Ideal for high throughput applications

- Integrated barcode scanning
- Quiet
- Reliable
- Small footprint
- Collaborative
- Collision detection and recovery
- Random access or stacked storage
- 360° workspace
- Optical sensor
- Easily handles lids
- Handles most SBS-standard labware

### 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. In addition, the Orbitor's quiet operation removes the concern of noise pollution in the laboratory, an issue which arises with many other products on the market.



### **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.

### **Maximizes uptime**

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

### **Momentum Scheduling and Workflow Software**

The Orbitor RS2 solution is controlled and monitored with the Thermo Scientific Momentum™ scheduling and workflow software. Momentum is the top layer software that communicates and controls instruments as well as the Orbitor. Momentum lets users define, execute and monitor complex processes in a powerful, yet easy-to-use visual environment. The software offers a simulation to test and optimize your processes in advance.

Momentum software isolates problems and provides recovery options for attended or unattended modes to keep your science moving. This revolutionary software can even run multiple processes at the same time, the possibilities are endless!



The home screen of the Momentum scheduling and workflow software details system status and work queues in a simple visual format



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Thermo Scientific Orbitor RS2 microplate mover



Find out more at [thermofisher.com/OrbitorRS2](https://thermofisher.com/OrbitorRS2)

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