


 Lab automation

Automate your scientific workflow with ease



Benefits

- Enjoy perfect handling every time. AutoLevel technology means no more worrying about the non-flat world
- A hassle-free and intuitive set-up. Nest locations are dynamically tracked and maintained thanks to the machine vision-enabled auto-healing capabilities
- Automation is safe, easy, and accessible. Users require little training, takes reduced effort to operate and maintain compared to other solutions

Keywords

Microplate mover, robot, lab automation, workstation, cobot, collaborative robot, SCARA robot, lab of the future, SmartCart, docking, docking cart



The Thermo Scientific™ Spinnaker™ 3 Microplate Mover is an advanced benchtop robot that is easy to use, teach, and maintain. It is the only SCARA type (Selective Compliance Articulated Robot Arm) lab automation robot with integrated vision-assisted teaching and barcode reading.

Easy to use

The Spinnaker 3 robot is truly collaborative, able to work alongside you and evolve with your needs. Due to its flexibility and adaptability, you can scale-up or scale-down the system as you need. Powered by Thermo Scientific™ Momentum™ Workflow Scheduling Software the combination delivers an unprecedented integrated solution that greatly simplifies the design, setup, and execution of automated scientific processes.

Easy to teach

Utilizing its built-in machine vision system and a specialized teach jig, teaching locations is a quick and easy process. The vision system is equipped with a location verification procedure that inspects taught nest locations prior to a run. The procedure allows for automatic corrections of minor location discrepancies via on-the-fly healing. The integrated camera also acts as a barcode reader, enabling automatic confirmation of sample ID's and robust sample tracking.

Easy to maintain

Your confidence in our robot's continued productivity is our priority. As a result, we offer outstanding service and support options. For instance, our swap out program allows for quick and efficient mover replacement maximizing laboratory uptime.

Specifications

Axis/Joint	Quantity
Overall height	80 mm (1583 mm)
Radius (reach)	±597 mm
Workspace height (above mounting surface)	-34 -601 mm (-32 - 1353 mm)

Axis	Range	Velocity	Acceleration
Base (rotate)	Infinite	180°/sec	360°/sec ²
Elevator	635 mm (1385 mm)	750 mm/sec	2000 mm/sec ²
Elbow (rotate)	Infinite	360°/sec	1440°/sec ²
Wrist (rotate)	Infinite	720°/sec	2880°/sec ²

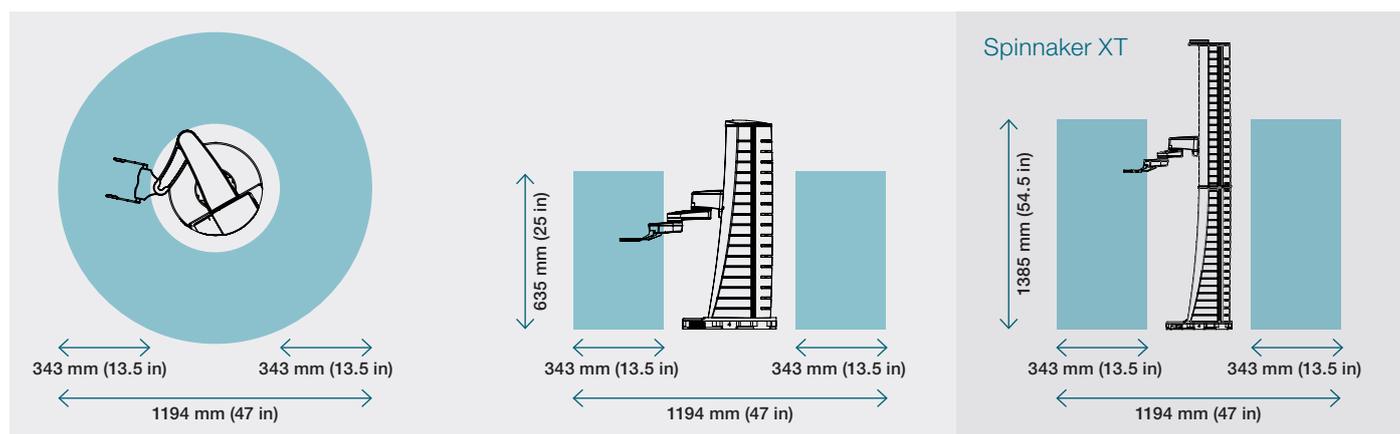
Storage options

Hotels	
Random access	15 standard plates per hotel
Sequential access	40 standard plates per hotel

Maximum capacity with hotels	
Random access	180 standard plates
Sequential access	480 standard plates

General installation	Quantity
Power requirements	100-240 V auto-switching
Operating environment	15-40°C, non-condensing
Safety compliances	CE, CSA
Weight	25 kg (33.8 kg)
Motion control	Closed loop servo, controlled stepper
Control	Momentum Software, directly from PC requires Windows® 7 Professional SP1, 32-bit or 64-bit or later

Workspace



Learn more at thermofisher.com/spinnaker3

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