# Thermo Scientific Spinnaker Robot

Microplate mover with integrated barcode-imaging system

#### **Features**

- · Quiet operation
- Integrated vision
- Intelligent teach-jig
- Location verification
- · Sample confirmation
- · On-the-fly barcode reading
- Gravity neutral
- Offset gripper standard
- Overhead gripper optional
- Infinite rotations on all axes
- Integrated regrip station
- · Native lidding/de-lidding capability
- · Random access or stacked storage
- Bench-top ready
- · Rapid set-up
- · Arrayed or radial instrument configurations
- Thermo Scientific<sup>™</sup> Momentum<sup>™</sup> 4.0 ready
- Thermo Scientific<sup>™</sup> BenchTrak<sup>™</sup> ready





### **Unique vision capabilities**

The Thermo Scientific™ Spinnaker™ robot is the only SCARA type (Selective Compliance Articulated Robot Arm) lab automation robot with integrated vision-assisted teaching and barcode reading. This robot can see issues that result in lost samples and cycle time before they become problems. When utilized with Thermo Scientific Momentum™ 4.0 Workflow and Scheduling software, the combination delivers an unprecedented integrated solution that greatly simplifies the design, setup, and execution of automated scientific processes.

## Simple, quick set-up

Utilizing its built-in vision system and the specialized teach jig included with all Spinnaker movers, teaching locations is a quick and painless process. The vision system is also equipped with a location verification procedure that inspects all nest locations prior to a run, and will automatically correct minor location discrepancies (position healing). The integrated camera on Spinnaker also acts as a barcode reader, enabling automatic confirmation of sample ID's and robust sample tracking.



Axis/Joint Specifications				
	800 mm			
	±597 mm			
ove mounting surface)	-32 — 603 mm			
Range	Velocity	Acceleration		
Infinite	180 °/s	360 °/s²		
635 mm	750 mm/s	2000 mm/s <sup>2</sup>		
Infinite	360 °/s	1440 °/s²		
Infinite	720 °/s	2880 °/s²		
	Range Infinite 635 mm Infinite	### 800 mm  ### ±597 mm  Ove mounting surface)  ### Range    Velocity    Infinite		

Storage Options		
Hotels		
Random Access	15 plates per hotel	
Sequential Access	40 plates per hotel	
Maximum Capacity with Hotels		
Random Access	180 plates	
Sequential Access	480 plates	

General Specifications		
Power Requirements	100 - 240 V auto switching	
Operating Environment	15 - 40 °C, non-condensing	
Safety Compliances	CE, CSA	
Weight	25 kg	
Motion Control	Closed Loop Servo, Controlled Stepper	
Control	Momentum 4.0. Directly from PC, requires Windows 7 or Windows 8 operating systems	

## **Gripper Details**

- Built-in imaging bar code reader
- Handles most SBS conforming plates
- Landscape or Portrait
- Easily handles lids
- Plate detection during grip
- Adjustable gripping force and grip distance
- Variable plate/container finger designs
- Payload 250 g

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