

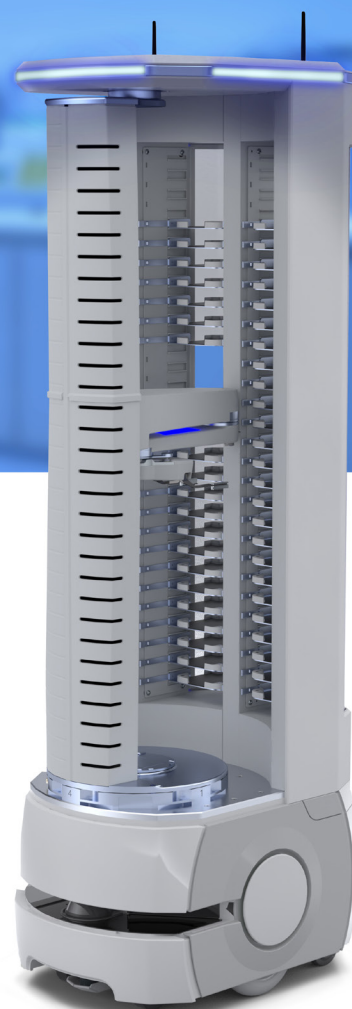
Lab Automation

Autonomous Mobile Robot

Envision labs where workflows are optimized, experiments are conducted with unparalleled speed, and the pursuit of scientific breakthroughs becomes a thrilling adventure. A future where the pages of discovery are turned not by hands alone, but by the synchronized dance of technology and ambition.

The Thermo Scientific™ Autonomous Mobile Robot (AMR) with the Thermo Scientific™ Spinnaker™ 3 Microplate is a seamless fusion of advanced robotics and artificial intelligence, designed to navigate the intricate landscapes of laboratories with unparalleled precision. This mobile marvel heralds a new era for contract research organizations (CRO), big pharma, and biopharma companies alike.

Thermo Scientific AMR solution transcends the limitations of traditional benchtop robotic systems, offering a transformative synergy of flexibility, adaptability, and efficiency.



Walk-away confidence for 24/7 unattended operation

The only AMR that can navigate with the knowledge of workflows, samples, and floor; providing unmatched sample protection and traceability.



Quick to deploy, easy to scale

Flexible architecture with built-in workflow intelligence and simple communication makes it suitable for fast standalone deployments, or scale worry-free with resilience against network interruptions.



Maximize returns

Fully utilize your lab space with extended vertical workspace, reduce travel time with maximized flexible sample storage.

Product specifications

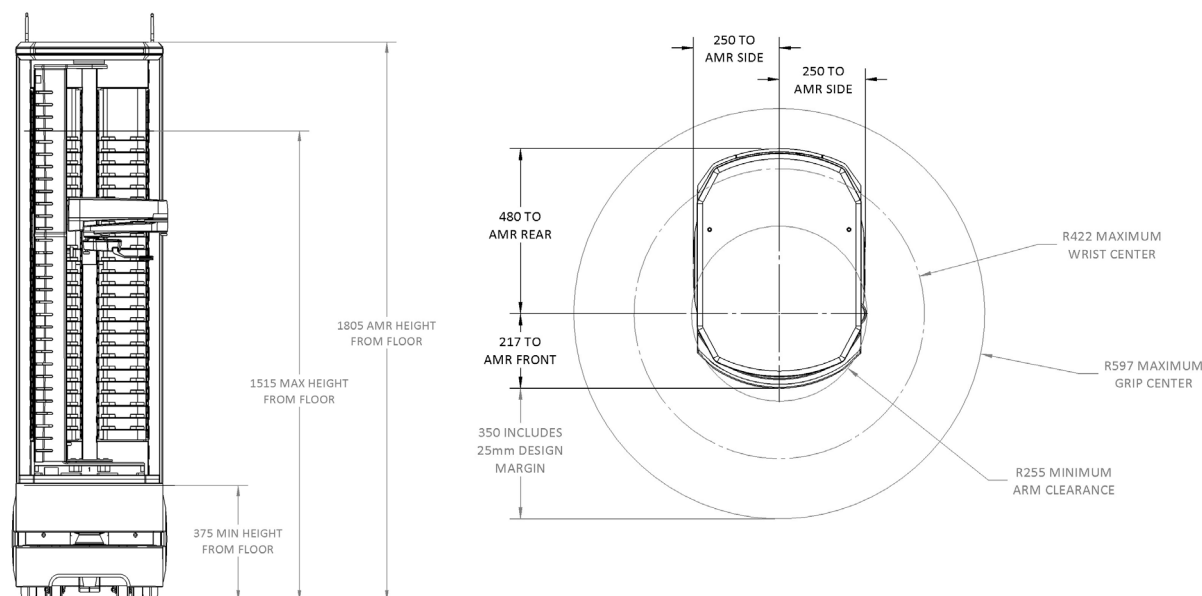
Measurements	
Overall height*	1805 mm
Overall footprint	700 mm diameter
Workspace height*	375 mm to 1515 mm
Reach from AMR edge	350 mm

Operation parameters	
Positioning accuracy*	±0.25 mm, ±0.2°
Run-time between full charges	~8 hours
Full charge cycle	~4 hours

Storage options	
Format	SBS container
Orientation	Portrait/landscape
Nest pitch*	Min. 40 mm
Capacity*	Max. 40 standard SBS plates
User accessibility	<ul style="list-style-type: none"> Transparent barrier for quick visual inspection External window for controlled sample exchange Bulk load/unload from the back side

General	
Total weight*	~90 kg
Operating environment	15–40°C, non-condensing
Charger voltage	100-240 VAC, 50/60 Hz
Charger rated power	800 W
Charging dock mounting	Wall bracket, directly to floor, or on floor with floor plate
Battery life span	~2000 cycles (~5 years with daily cycle)
Safety/compliance	EN ISO 12100/EN ISO 13849-1/EN 60204-1 EN 1525/ANSI B56.5 IEEE 802.11 a/b/g/n/ac
Control*	Thermo Scientific™ Momentum™ Single Mover Automation Control Software/Unite Adapter

* Preliminary specification, subject to change without notice



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