

RACKMOVER

The Heavy-Duty AGV for Data Centers

DS
AUTOMOTION



**Payload
max. 6 t**

Heavy Racks. Moved Safely.

High Capacity. Precise Positioning.

RACKMOVER automates the safe and precise transport of heavy server racks in modern data centers. With a payload capacity of up to 13,000 lbs, it handles fully equipped racks with confidence — transporting them through the white space and positioning them precisely, even in narrow cold aisles.



Discover the
RACKMOVER!



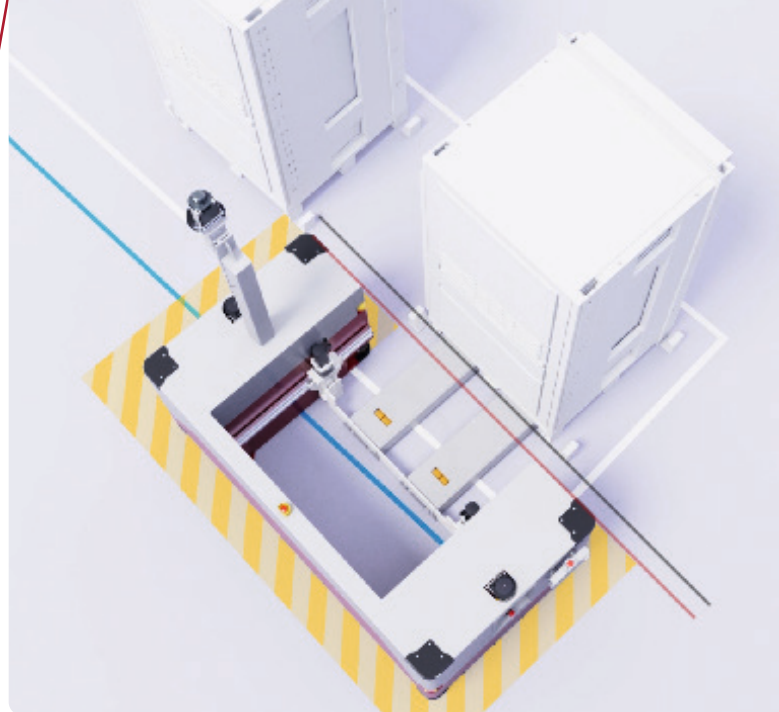
RACKMOVER

The Heavy-Duty AGV for Data Centers

Heavy-Duty Meets Precision

Built for the weight. Engineered for precision.

Modern hyperscale data centers are introducing larger and heavier ORW racks, creating new challenges for safe and efficient material handling. RACKMOVER automates the transport and precise positioning of these heavy racks, enabling controlled, reliable movement even through narrow aisles and space-constrained environments.



Auto-Alignment

Patented Auto-Alignment technology automatically aligns the RACKMOVER with the rack before pickup. Sensors detect even the smallest angular deviations and correct the vehicle's position in real time. The result is highly accurate rack pickup while minimizing the risk of contact or damage to sensitive IT hardware.

Precise Navigation

Contour-based LiDAR navigation enables flexible and reliable movement throughout the data center. In aisles, optical line guidance provides additional path accuracy, while automatic fine positioning ensures precise alignment and handover at the target location.

Safety and Protection

Intelligent safety systems continuously monitor the vehicle's surroundings to help protect personnel, infrastructure, the RACKMOVER, and transported IT equipment. Safety laser scanners, collision protection, and safety-rated control systems support safe, controlled operation in the demanding environment of modern data centers.

Technical Details

Dimensions (L/W/H):	2,600 x 1,635 x 2,384 mm 102.4 x 64.4 x 93.9 in
Payload:	up to 6.0 t 13,228 lbs
Speed:	up to 1.0 m/s 2.2 mph
Lifting height:	120 mm 4.7 in
Rack types:	ORW-Racks
Navigation:	hybrid: contour-based, track-guided
Safety field:	360°
Power supply:	Automatic battery charging
Battery:	LFP
Display:	10,1" touchscreen display, optional

patented
technology

