Shelf AMR

Shelf AMR T6-800

High Speed
2.2m/s (4.92mph)

High Environmental Tolerance
Battery operating temperature:
-20°C~50°C (-4°F~122°F)

Highly Optimised Design
All-aluminum mechanical structure
Two harmonic reducers, two external rotor motors, segmented chassis, stronger obstacle crossing ability.

High Load/Dimension Ratio
Load/dimension ratio:
4,900 kg/m³ (305.87 lb/ft³)

Small Size and Small Rotating Diameter
Rotating diameter 980mm (38.58in),
height 245mm (9.65in)



Shelf AMR T6-1200/1500

Safe and Reliable
Obstacle avoidance, fireproof, anti-collision as well as sound and light alarms

Superior Performance
Fast moving and lifting speed, with high precision

Flexible Extension
Supporting various assemblies, such as robotic arms, rollers and pallet tooling

Modular Structure
Stable, reliable and easy to maintain

Open Protocol
Open AMR protocol and scheduling protocol

Adaptatable to Multiple Environments
Adapable to various ground conditions and a wide temperature range

Easy Accessibility
Rapid learning and deployment

High Environmental Tolerance
Support customisation of cold storage version

T6-800 Product Parameters

Dimensions	980*680*245 mm (38.58*26.77*9.65 in)	**Navigation method**	2D code/SLAM + Inertial
Empty load rotating diameter	980mm (38.58in)	**Obstacle avoidance**	Lidar obstacle avoidance
Lifting height	60mm (2.36 in)	**Safety**	Traffic control, lidar obstacle avoidance, safety edge
AMR weight	160 kg (352.74 lb)	**Charging method**	Automatic/manual
Maximum load	800 kg (1,763.70lb)	**Battery parameters**	48V27AH Lithium Iron Phosphate
Maximum speed	2.2m/s, SLAM AMR 1.8m/s (4.92mph, SLAM AMR 4.03mph)	**Fully charged time**	1.5h
Straight-ahead tunnel width (empty/full load)	800mm (31.50in)/carrier +150mm (5.91in)	**Comprehensive battery life**	8h
Positioning accuracy	±10 mm (±0.39 in)	**Full charge/discharge cycle life**	80% DOD 2,000 times
Operating temperature	0~50°C, -20°C (optional) 32~122°F, -4°F (optional)	**Ground bearing requirement (full load)**	1,200 kg/m² (245.78 lb/ft²)
Communication method	WiFi 2.4G, WiFi 5G, Cellular 5G (optional), infrared (optional)	**Climbing capacity (H/L)**	5%



T6-1200/1500 Product Parameters

Dimensions	1,160*860*245mm (45.67*33.86*9.65in)	**Navigation method**	2D code/SLAM + Inertial
Empty load rotating diameter	1,160mm (45.67in)	**Obstacle avoidance**	Lidar obstacle avoidance
Lifting height	60mm (2.36 in)	**Safety**	Traffic control, lidar obstacle avoidance, safety edge
AMR weight	220kg (485.02lb)	**Charging method**	Automatic/manual
Maximum load	1,200 kg/1,500 kg (2,645.55lb/3,306.93lb)	**Battery parameters**	48V54AH Lithium Iron Phosphate
Maximum speed	1.8m/s, SLAM AMR 1.5m/s (4.03mph, SLAM AMR 3.36mph)	**Fully charged time**	2h
Straight-ahead tunnel width (empty/full load)	980mm (38.58in)/carrier+150mm (5.91in)	**Comprehensive battery life**	12h
Positioning accuracy	±10mm (±0.39in)	**Full charge/discharge cycle life**	80% DOD 2,000 times
Operating temperature	0~50°C, -20°C (optional) 32~122°F, -4°F (optional)	**Ground bearing requirement (full load)**	1,600 kg/m² (327.71lb/ft²)
Communication method	WiFi 2.4G, WiFi 5G,Cellular 5G (optional), infrared (optional)	**Climbing capacity (H/L)**	3%

