

AUTOMATE YOUR MATERIAL TRANSPORT DUTIES

SEIT transports materials autonomously without any infrastructure cost. Sensing and building the map of the environment, it avoids obstacles en route its destination and communicates with other systems in terms of Industry 4.0. SEIT ensures safety and high efficiency in facilities in addition to excellent ROI it yields.



INFRASTRUCTURE FREE
Navigation requires no physical markers



COLLABORATION
Works as a team member



DURABLE & STRONG
Designed for heavy loads and task



AUTO-CHARGING
Recharges on its own



SHORT ROI
Pays you back



PRECISE
Transports with reliable accuracy



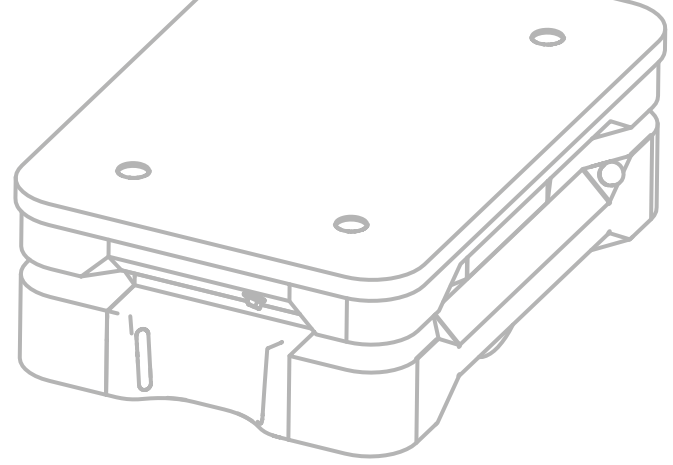
EFFICIENT OPERATION
Fully autonomous rather than automated



SAFE NAVIGATION
Navigate safely around people and objects



FLEET MANAGEMENT
Provides centralized control of robots



TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

External Dimensions	815 x 580 x 297 mm (L x W x H)
Loading Area Dimensions	800 x 560 mm (L x W)
Weight	130 kg
Ground Clearance	26 mm

PERFORMANCE

Max Payload	350 kg
Max Speed	2 m/s
Gradeability	%5 / 3° @ 1 m/s
Drive Configuration	Differential
Turning Radius	Turn in place ability 475 mm sweep area radius
Positional Accuracy (Up to)	+/- 1 cm, +/- 1 deg
Suspension	Passive

POWER

Battery	Li - Ion / 48V - 29 Ah
Charge Time	2 hrs for %0 to %80 - 3 hrs for %0 to %100
Nominal Run Time	10 hrs
Charger Specs	<i>Features:</i> Automatic Battery Detection Smart Charge Control Auto Fault Recovery Status Indicator Light Manual Cable Charge Interface IP54 Option <i>Protections:</i> Short Circuit Reverse Polarity Over Voltage Undervoltage Over Temperature Battery Not Connected

ENVIRONMENT

Operation Environment	Indoor
Operating Temperature Range	0°C to 40°C
Storage Temperature Range	5°C to 50°C
Humidity	10 - 95 % non-condensing

CONNECTIVITY AND INTERFACE

General Purpose I/O	Inputs: 5 digital (2 safe - 3 Non-safe) Outputs: 2 digital (Non-safe) E-stop Interface (2 input - 2 output)
Communication	1 USB 3.0 (Non-isolated) 1 Ethernet - RJ45 1 RS232/485 (Isolated)
Power for Attachments	Unregulated battery power, 48V - 10A with circuit breaker
Wi-Fi	802.11 - 2.4/5.0 GHz - 20/23 dBm Internal Antenna

SAFETY AND COMPLIANCES

Standards	EU Directives or Regulations 2006/42/EC and EN6204-1, ISO 13849-1&2, ISO 12100, EN ISO 3691-4, ANSI/RIA R15.08
Safety Functions	Braking System - PL d Speed Control - PL d Field Switching - PL d Auto Charging - PL c Emergency Stop - PL d Person Detection - PL d Warning System - PL a Load Handling - PL d Additional 2x 3D Depth Cameras for Increased Perception

EXTENSIONS

Accessories	Reference Geometry, Auto-Charger, Pendant Controller
Attachments	Lift , Cart Towing, Conveyor (Roller, Belt w/ adjustable height) etc.