



ROBOTIC CART THOUZER

シリーズ E-SERIES

FLEXIBILITY

Offer different usage level
From simple button to
system integration

ADAPTABILITY

Navigation work in
highly dynamic environment
and different operations

SCALABILITY

Customization choice for
navigation mode, user
interface, and accessories

NAVIGATION FUNCTIONS

*All E-SERIES models are capable of performing all 3 types of navigations



Follow-Me
Target Tracking
Navigation



Memory Trace®
Autonomous Navigation



Line Trace
Line Tracking
Navigation



THOUZER MINI
Nimble in narrow space



THOUZER STANDARD
Standard choice by many



THOUZER GIANT
Handle heavyweight

CUSTOMIZATION CHOICES



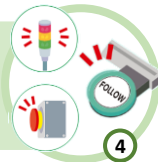
3D CAD files

Design based on
3D CAD file
can be shared



Parameter
setting

Body size, speed
adjustment, LiDAR
sensor, etc.



I/O control

Status output,
input from wireless
network/ PLC, etc.



Power solution

Expansion,
wireless charging,
fast charging



Peripheral
power supply

Power supply for all
additional peripheral
devices available



Towing jig
customization

Hand-pallet truck
and different size
trolley towing



IoT connectivity

Wi-Fi/ cloud network
can be set up for
remote monitoring

*Illustration purposes only

*As the scope of customization is large, please refer to Doog / Doog distributor for more details

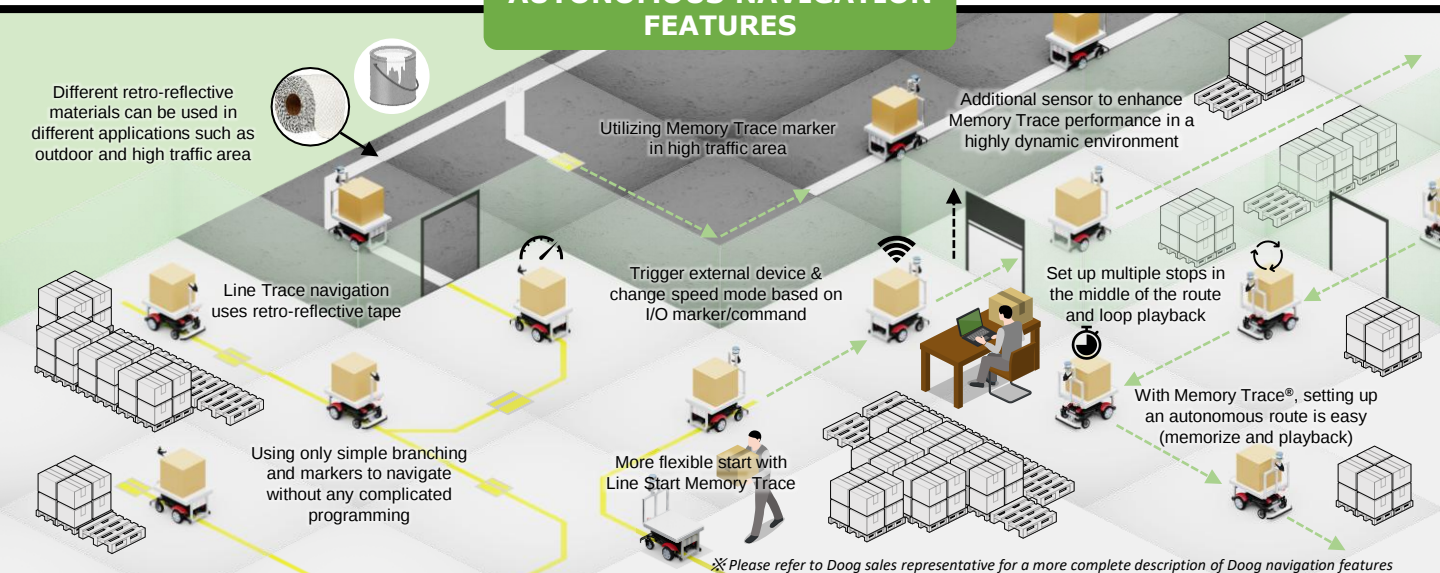
PRODUCT SPECIFICATION

PRODUCT MODEL			THOUZER MINI (RMS-05E2)	THOUZER STANDARD (RMS-10E2)	THOUZER GIANT (RMS-15E2)
DIMENSIONS	Robot Dimension		450 mm (W) 485 mm (L)	600 mm (W) 950 mm (L)	700 mm (W) 1180 mm (L)
	Loading Platform		330 mm (W) x 450 mm (L)	600 mm (W) x 750 mm (L)	700 mm (W) x 1000 mm (L)
	Platform Height		295 mm	455 mm	455 mm
PAYLOAD	Payload		60 kg	120 kg	300 kg
	Towing Capacity ※1		150 kg	300 kg	600 kg – 2,000 kg ※2
SPEED & MANEUVERABILITY	Max Speed		5.5 km/h (FM), 3.6 km/h (MT/LT)7.5 km/h (FM), 3.6 km/h (MT/LT)		
	Minimum Radius of Rotation		~0.36m	~0.72m	~1.0m
	Maximum Slope Gradient		6 Degrees (maximum payload)		
	Maximum Step Traversing		3 cm (edge 45°)		
POWER	Battery (Lead-acid type)		2x 12V 22Ah	2x 12V 34Ah	2x 12V 75Ah
	Battery Run Time (Distance)		Up to 15 km (Full Charge)	Up to 20 km (Full Charge)	
	Charging Time		Approximately up to 8 Hours (0% - 100%)		
PROTECTION	IP Class		N/A	IPX2	
SENSOR & SAFETY SYSTEM	Standard LiDAR Sensor	Specification	Memory Trace Range (30m) Height (~30 cm) FOV (320°)		Memory Trace Range (30m) Height (~30 cm) FOV (270°)
	Additional LiDAR Sensor (MT)	Specification	3D: Memory Trace Range (100m) and +15 degrees vertical view angle / 2D: Memory Trace Range (30m) Height (adjustable between 1.2m to 2.0m) FOV (360°)		
	Additional LiDAR Sensor (LT)		Optional for Line Trace / Highway navigation		
	Safety Features		Obstacle Detection, Emergency Stop Button (Front), Bumper Switch Alarm Device (Sound) Indicator Light (Op)		

※1 Please refer to product manual for safe use

※2 Variants of the GIANT model are available.
Please refer to the supplementary material for more details.

AUTONOMOUS NAVIGATION FEATURES



Website

Follow us at Doog Inc:



Singapore

Doog International Pte Ltd
140 Paya Lebar Road,
#05-07, AZ@Paya Lebar Singapore 409015
Tel: +65 6513 0607



Product PV

Distributor:

Product specifications, appearance, prices, etc. are subject to change without notice