



# 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<sup>®</sup>**  
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



**Power solution**

Expansion,  
wireless charging,  
fast charging



**Towing jig  
customization**

Hand-pallet truck  
and different size  
trolley towing



**Parameter  
setting**

Body size, speed  
adjustment,  
LiDAR sensor, etc.



**I/O control**

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



**Peripheral  
power supply**

Power supply for all  
additional peripheral  
devices available



**IoT connectivity**

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

*\*Illustration purposes only*

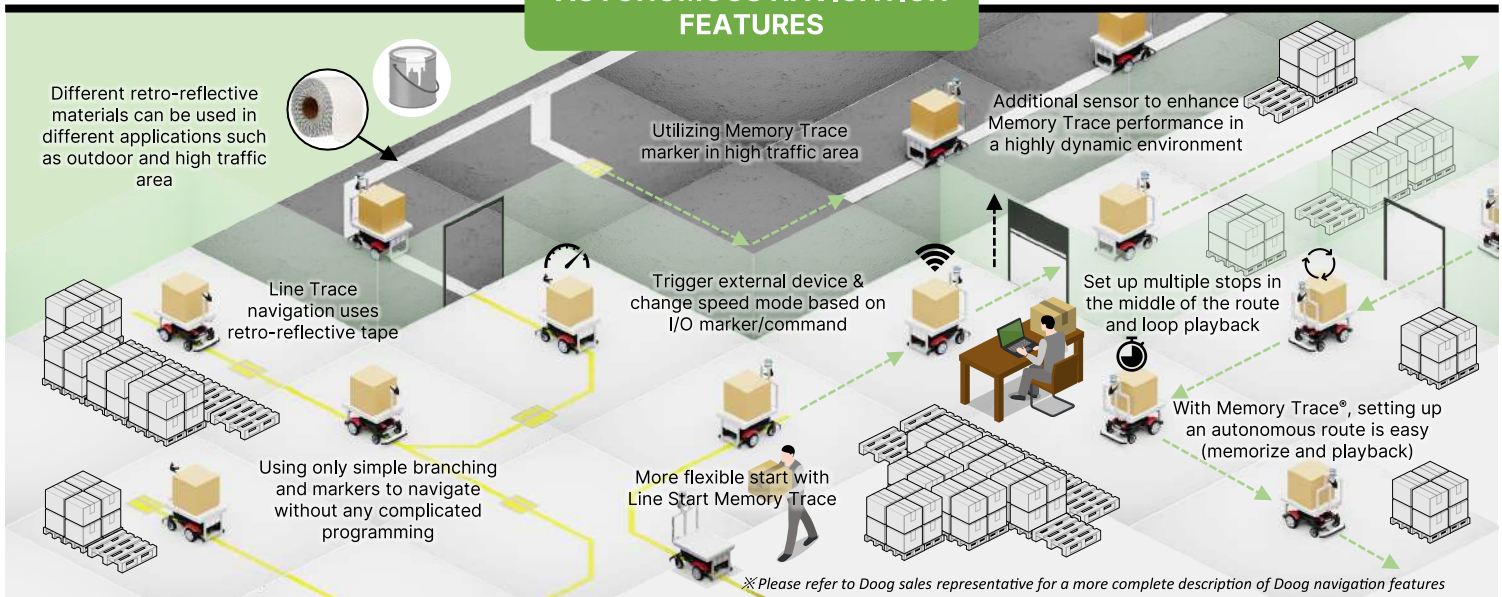
*\*As the scope of customization is large, please refer to Doog / Doog distributor for more details*

**PRODUCT SPECIFICATION**

PRODUCT MODEL		THOUZER MINI (RMS-05E2)	THOUZER STANDARD (RMS-10E2)	THOUZER GIANT (RMS-15E2)	
<b>DIMENSIONS</b>	Robot Dimension	450mm (W) 486mm (L)	600mm (W) 950mm (L)	700mm (W) 1180mm (L)	
	Loading Platform	330mm (W) x 450mm (L)	600mm (W) x 750mm (L)	700mm (W) x 1000mm (L)	
	Platform Height	295mm	455mm	455mm	
<b>PAYLOAD</b>	Payload	60 kg	120 kg	300 kg	
	Towing Capacity ※	150 kg	300 kg	600 kg	
<b>SPEED &amp; MANEUVERABILITY</b>	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	~0.36 meter	~0.72 meter	~1.0 meter	
	Maximum Slope Gradient	3 Degrees	6 Degrees	3 Degrees	
<b>POWER</b>	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%)			
<b>PROTECTION</b>	IP Class	N/A	IPX2		
<b>SENSOR &amp; SAFETY SYSTEM</b>	Standard LiDAR Sensor	Specification	Memory Trace Range (30m) Height (25cm) FOV (320°)	Memory Trace Range (30m) Height (32cm) FOV (320°)	Memory Trace Range (30m) Height (35cm) 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 (Op) Bumper Switch (Op) Alarm Device (Op) Indicator Light (Op)	Obstacle Detection, Emergency Stop Button (Front), Bumper Switch Alarm Device (Sound) Indicator Light (Op)	

※Please refer to product manual for safe use

**AUTONOMOUS NAVIGATION FEATURES**



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