

TUSKROBOTS

A network diagram consisting of several grey dots (nodes) connected by thin grey lines (edges), forming a complex web-like structure in the top right corner of the page.

Robot Product Specification E10

A network diagram consisting of several grey dots (nodes) connected by thin grey lines (edges), forming a complex web-like structure in the bottom left corner of the page.

Catalogue

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1 ROBOT PRODUCT

1.1 E10



Figure 1 E10 Robot

Table 1: E10 Technical Specifications

Item	Specifications	E10
Basic parameters	Size(mm)	1233×1102×170
	Maximum Lifting Weight (kg)	1000
	Self-Weight (kg)	316.6kg
	Rotation Diameter (mm)	1593
	Fork Height (mm)	90
	Maximum Lifting Height (mm)	≤329
	Pallet Opening Height(mm)	95-130
	Display Screen	5 inches
	Telecommunication Modes	Default WIFI version: Support dual-band 2.4G/5G, IEEE802.11b/g/n (-5G version support 5G communication)
Safety Protection	Obstacle Avoidance Protection	360°Obstacle avoidance detection
	Detection Distance of Front Laser	≤3m
	Mechanical Protection	Emergency stop button, Reset button, protection strip around the whole vehicle body
	Caution Function	With voice and photoelectric alarm functions
Movement Capability	Navigation Mode	DM(QR) code
	The Speed with Zero Load	0-1.5m/s
	The Speed with Fully Loaded	0-1.2m/s
	Rated Acceleration	1m/s ²
	Stop Accuracy	±5mm /±1°
	Movement Mode	two-wheel differential
	Ground Clearance max.	40mm

	Ground Slope max.	4°
	Ground Step max.	15mm
	Ground slope allow the Fork arm full extension	1.9°
Lithium Battery Performance	Rated Voltage	51.2V
	Capacity	30AH
	Battery Life	The times of fully charging: 2000 times (The battery capacity is guaranteed to be more than 70% of the new battery)
	Battery Endurance	≥8H
	Charging Time	≤2H
	Battery Type	LFP

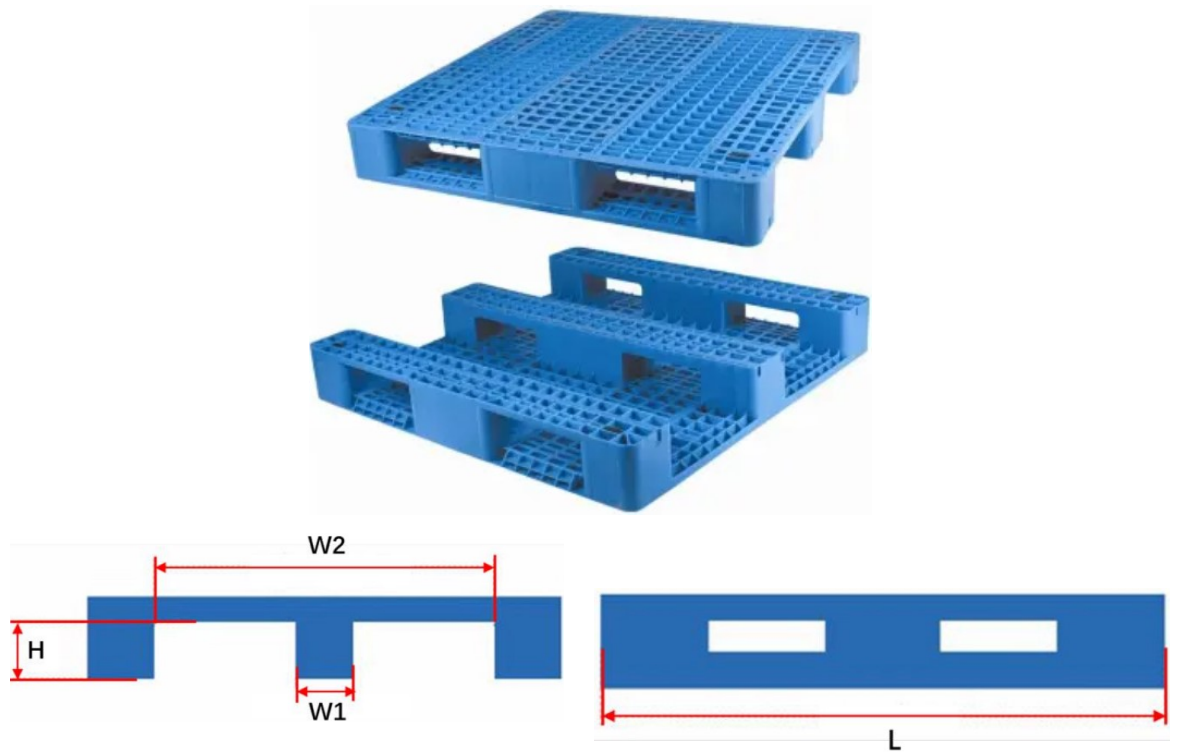


Figure 2 E10 Robot Size

- ❖ No Assistance Required: Pallet handling directly by fork without any auxiliary equipment;
- ❖ Load Stability: Higher stability by reason of loading with the vehicle body rather than the fork, no shaking;
- ❖ High Load Ratio: Can load four times of its own weight;
- ❖ High Adaptability: Support dual navigation switching between laser SLAM and DM code, adapt to multiple working scenes;
- ❖ Automatic Control: Automatic flexible intelligent obstacle avoidance control;
- ❖ Audible and Visual alarm: Support high position light and voice prompt;
- ❖ Multiple Communication: Support WIFI/5G network communication and seamless roaming;

2 PALLET ADAPTABILITY

2.1 Pallet size adaptation



Description of pallet size parameters		
No	Description	Parameter (mm)
1	W1	≤190
2	W2	700≤W2≤950
3	L	≤1200
4	H	Under the condition of 95~105: the maximum load is 800kg
		Under the condition of 105~130: the maximum load is 1000kg