

TUSKROBOTS

Robot Product Specification E08

Catalogue

Catalogue	2
1 Robot Product	3
1.1 E08	3
2 Pallet adaptability	5
2.1 Pallet size adaptation	5

1 ROBOT PRODUCT

1.1 E08

Figure 1 E08 Robot



Table 1 E08 Technical Specifications

Item	Specifications	E08
Basic parameters	Size(mm)	1283×983×170
	Lifting Weight (kg)	800
	Self-Weight (kg)	300kg
	Rotation Diameter (mm)	1555
	Fork Height (mm)	90 (7mm downward floating height with loading)
	Maximum Lifting Height (mm)	≤330
	Pallet Opening Height(mm)	100-130
	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	Front laser sensors + Rear laser sensors, 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
	Fork tip detection	Photoelectric sensor detection distance of 100mm, collision switch
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
	Peak 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/Capacity	51.2V/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

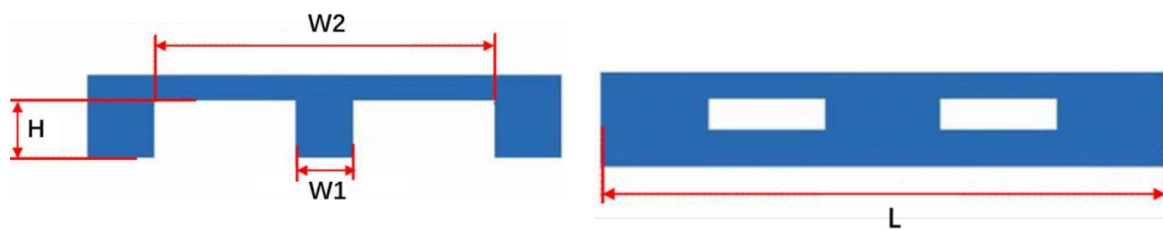
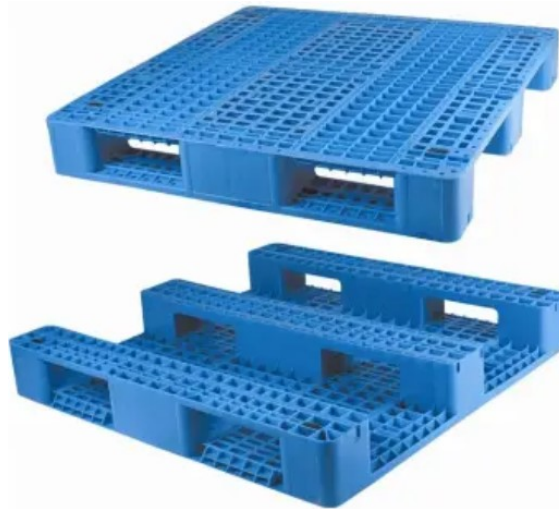
Figure 2 E08 Robot Size



- ❖ 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	≤160
2	W2	600≤W2≤800
3	L	≤1400
4	H	95-130