

**TUSKROBOTS**

# **Robot Product Specification**

## **(International Version)**

## Catalogue

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# 1 RROBOT PRODUCT

## 1.1 E10 Titan



Images for reference only

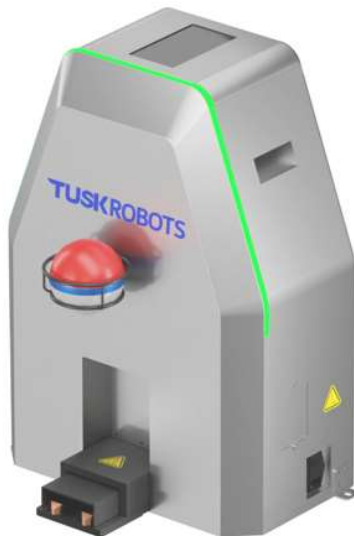
Project	Specifications	E10D(Titan)
Basic parameters	Size	1233×1102×170(mm)(Include the protection strip)
	Maximum Lifting Weight	Rated 1.2t, Max 1.5t
	Self-Weight	310kg
	Fork Height	90mm(7mm downward floating height with loading)
	Fork extension distance	1400mm
	Maximum Lifting Height	≤330mm
	Pallet Opening Height(mm)	≤1.2T: 110~130 > 1.2T: 130
	Display Screen	5 inches
	Telecommunication Modes	Support dual-band 2.4G/5G
Safety Protection	Obstacle Avoidance Protection	Front double laser sensors + Rear double laser sensors
	Detection Distance of Front Laser	0-3m
	Mechanical Protection	Emergency stop button、Reset button、A protection strip around the whole vehicle body
	Caution Function	With voice and photoelectric alarm functions
	Fork tip protection	Photoelectric sensor detection distance≤100mm, collision switch
	Security level	PLd
	Navigation Mode	SLAM+DM code Dual navigation
Movement Capability	The Speed with Zero Load	0-1.5m/s
	The Speed with Fully Loaded	0-1.2m/s
	Rated Acceleration	1m/s <sup>2</sup>
	Stop Accuracy	±5mm /±1°
	Movement Mode	two-wheel differential
	Ground adaptability	40mm(clearance)/4°(7%)/15mm(step)
	Maximum Slope of fork extension	2°(3.5%)
Lithium Battery Performance	Rated Voltage/ Capacity	51.2V/30AH
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	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/Charging Time	≥6H/1.5hr

	Battery Type	LFP
	Operating temperature	0~45°C



## 2 CHARGING STATION

### 2.1 E-series Charging Station



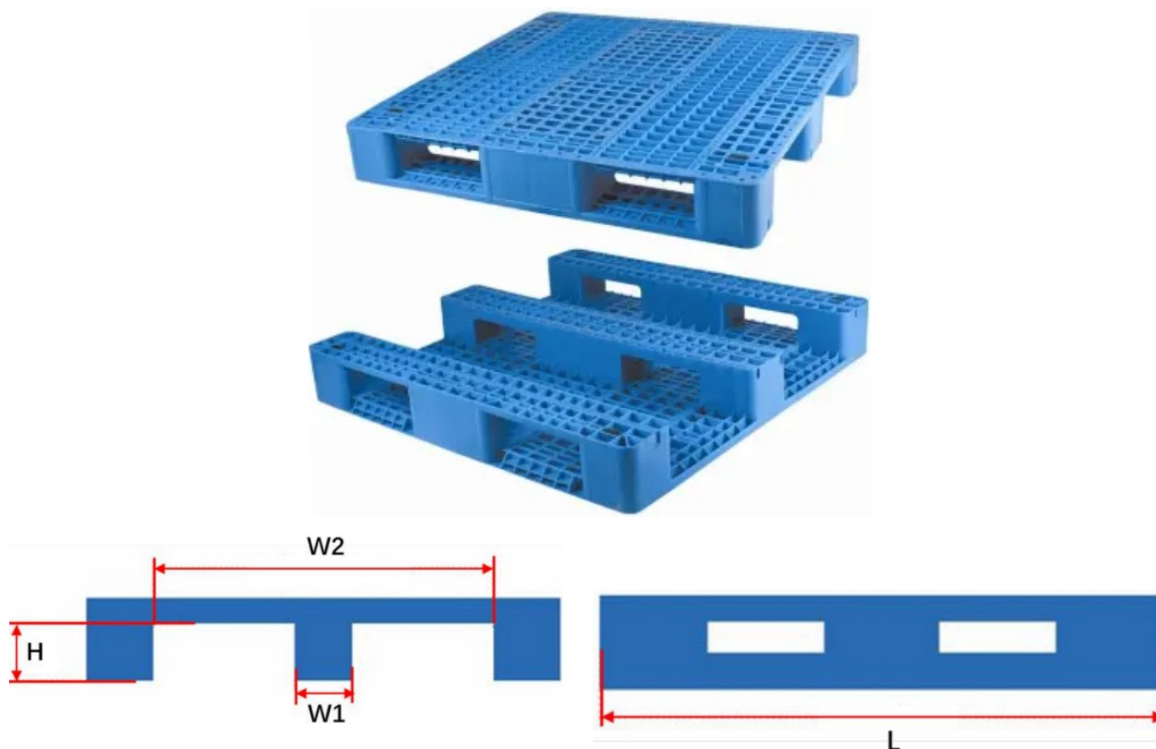
Images for reference only

Project	Technical Specifications
Specification	CSE60V20A1
Input AC voltage	AC 220V%±10% 50Hz
Size	506x268x702 mm
Input Rate	<2KW
Output DC voltage	12V~58.4V
Maximum output current	20A
Output voltage error	±0.5V
Output current error	±0.5A
Output Voltage	Dynamic adjustment of output voltage
Output Current	Dynamic adjustment of output current
Overcurrent Protection	Support
Over Temperature Protection	Support
Wireless Communication	Dual-band 02.4G/5G, IEEE802.11b/g/n
Human-computer Interaction	Touch LCD
Status Indication	Three color LED indicator
Charging Plug	Support anti reverse connection and good contact detection
Short Circuit Protection	2P 20A Leakage protector
Working Temperature	-10°C~+45°C
Weight	23kg



### 3 PALLET ADAPTABILITY

#### 3.1 Pallet size adaptation



Description of pallet size parameters						
Parameter label	E08	E08-SLAM	TuskES	TuskES-H	E10	E10-SLAM
W1 (mm)	W1 ≤ 160		W1 ≤ 160		W1 ≤ 160	
W2 (mm)	600 ≤ W2 ≤ 800		600 ≤ W2 ≤ 900		700 ≤ W2 ≤ 950	
L (mm)	DM: L ≤ 1400 SLAM: L ≤ 1300					
H	Under the condition of ≥110mm: the maximum load is 1200kg Under the condition of ≥130mm: the maximum load is 1500kg					

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**4 REVISION RECORD**

Document Version	Revision Time	Revised By	Revision Description
V1.0	2022.11.21		First Version
V1.1	2022.12.1		Adding dual navigation version
V2	2023.12.20		Adding E08-CE version