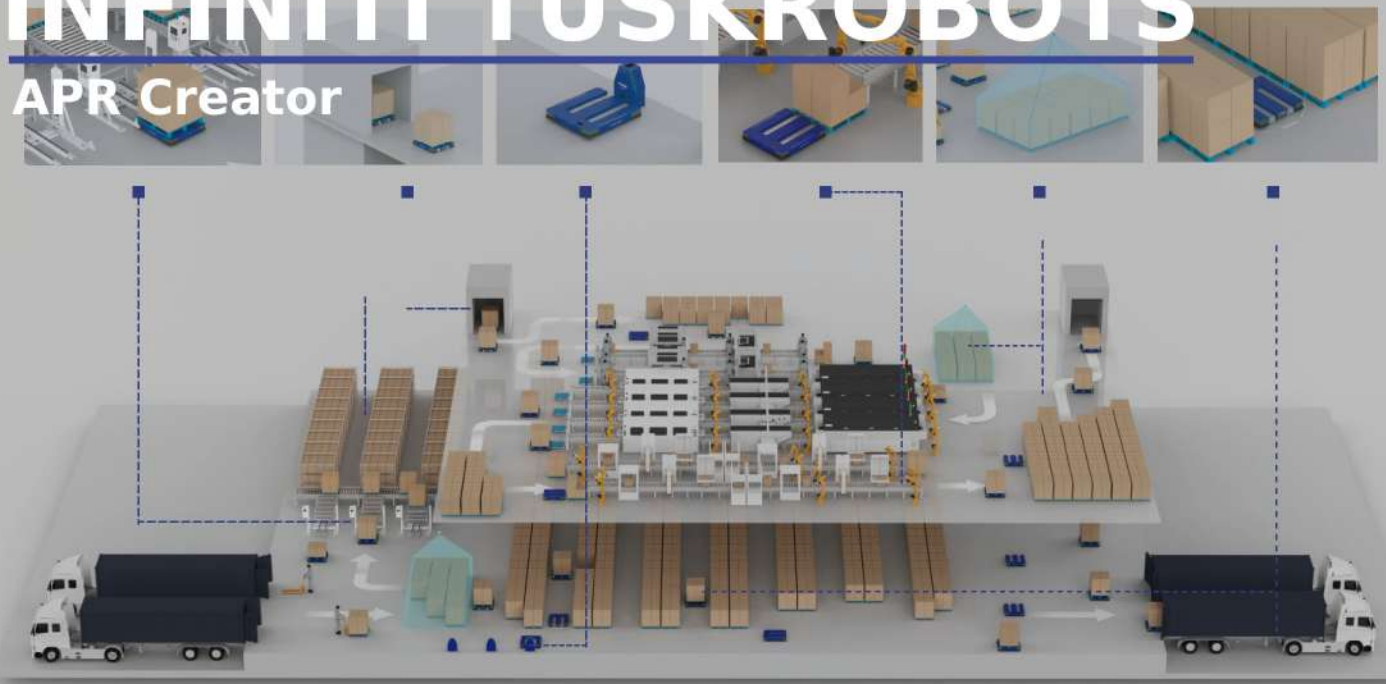


INFINITI TUSKROBOTS

APR Creator



“An **indispensable professional partner** for your **productivity solutions** and **digital workflow**”



Human-Computer Collaboration

The TUSK intelligent pallet transporting robot and Lothar task scheduling system provides warehouse personnel with human-machine cooperation via terminal PDA, PAD pager, and so on.

Occupational Safety

The 4 laser configuration and forward-facing stereo camera provides both 360° obstacle avoidance and stereoscopic space protection.



SOFTWARE SYSTEMS INTRODUCTION



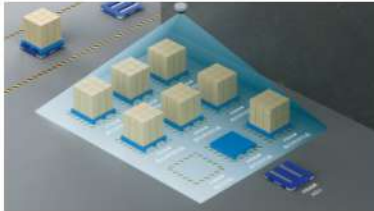
Lothar Platform System

- Real Time Display
- Task Management
- External Interface



Huskar Mobile Application

- Supports all Android Devices
- Exception Diagnosis
- Real-time Query of Devices
- Easy Inventory Management
- Swift Initiation of Tasks
- DM Code Scanning Input



Farseer Location Detection System

- Uses deep learning image recognition to monitor storage locations in real-time
- Optimises robot deployment for factory operations
- Enables automated triggering of pre-configured transport tasks

Specification

E10

Standard Pallet

Available for 1000*1200mm plastic pallet handling

High-level Safety

360° laser obstacle avoidance detection, cargo detection, etc.

Narrow Aisle

The minimum width of pallet handling aisle is 1800mm

Equipment Docking

Multi-equipment types docking support, such as lift, elevator, mechanical arm, etc.



	E10	E10-SLAM
Basic Parameters		
Size(mm)	1233x1102x170	1399x1102x272.5
Rated Load (kg)	1000	1000
Self-Weight (kg)	316.6	320
Rotation Diameter (mm)	1593	1593
Fork Height (mm)	90	90
Fork Stretch Out Max Limit (mm)	1400	1400
Fork Max Lifting Height (mm)	≤330	≤330
Display Screen	5 inches	5 inches
Telecommunication Modes	Default Wifi version: support dual-band 2.4G/5G, IEEE802.11b/g/n (-5G version support 5G communication)	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 sensor	Front laser sensors + Rear laser sensors, 360° obstacle avoidance sensor
3D Protection	Forward-facing stereo camera visual obstacle avoidance	Forward-facing stereo camera visual obstacle avoidance
Detection Distance of Front Laser	≤3m	≤3m
Mechanical Protection	Emergency stop button, reset button, a protection strip around the whole vehicle body	Emergency stop button, reset button, a protection strip around the whole vehicle body
Caution Function	With voice and photoelectric alarm functions	With voice and photoelectric alarm functions
Navigation Mode	DM code	SLAM + DM code Dual Navigation
Max Speed	1.5m/s (zero loaded) /1.2m/s (fully loaded)	1.5m/s (zero loaded) /1.2m/s (fully loaded)
Robot Stop Accuracy	±5mm/±1°	±10mm/±1°
Movement Mode	Two-wheel differential	Two-wheel differential
Maximum Robot Ground Adaptability	40mm(gap)/3.3°(slope)/15mm(stair-step)	40mm(gap)/3.3°(slope)/15mm(stair-step)
Maximum Fork Ground Adaptability	10mm(gap)/1.9°(slope)/5mm(stair-step)	10mm(gap)/1.9°(slope)/5mm(stair-step)
Lithium Battery Performance		
Rated Voltage/Capacity	51.2V/30AH	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)	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	≥8H/≤2H	≥8H/≤2H
Battery Type	LFP	LFP
Pallet Requirement		
Width of W1 and W2 (mm)	W1≤190, 700≤W2≤970	W1≤190, 700≤W2≤970
Vertical Entry Clearance (mm)	95-130	95-130
Pallet Length (mm)	≤1400	≤1300



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