TUSKROBOTS
EUROPE

TUSK ES-S

Standalone intelligent AMR



Technical specifications

Basic parameters

Chassis height / overall height with tower	**170 mm / 1,441 mm (configuration-specific)**
Maximum lifting weight	**1,000 kg with a pallet opening 100 to 130 mm high**
Turning width	**1,800 mm**
System	**Standalone**
HMI	**10 inches**
Operating temperature	**0-45 °C**

Navigation & movement

Navigation	**SLAM + DM code**
Speed, unloaded	**2.0 m/s**
Speed, fully loaded	**1.8 m/s**
Stop accuracy	**±20 mm / ±2°**
Maximum gap	**40 mm**
Maximum slope	**4° (7%)**
Maximum step	**15 mm**

Safety protection

Obstacle detection	**Dual front + dual rear laser sensors; 360° detection**
Safety controls	**Emergency stop and reset button**
Mechanical protection	**Full-body protection strip**
Alarm functions	**Voice and visual alarms**

Lithium battery performance

Battery type	**LFP ($LiFePO_4$)**
Endurance	**≥8 h**
Charging time	**≤2 h**
Battery life	**1,500 full cycles**

Operation modes

Standalone operation	**Supported**
Cluster scheduling	**Not supported**
VDA 5050 integration	**Not supported**