



Improve productivity and storage efficiency in the warehouse

Autonomous Mobile Robots (AMRs)

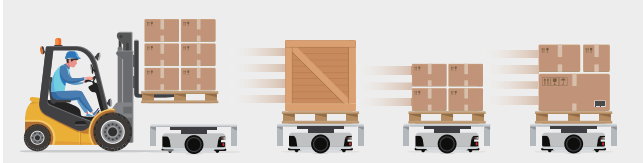


Automate pallet transportation

Issue Need to secure forklift operators



Benefit Operation with minimum workers



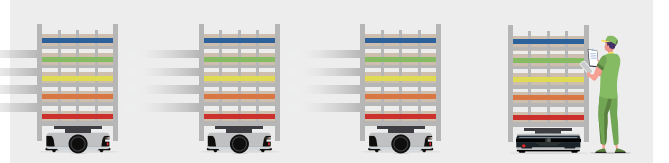
By automating the transport and rearranging of pallets in warehouses and manufacturing sites, forklift movement can be reduced. As the AMRs are able to carry heavy loads stably, safe transportation over long distances is possible. Special pallet PODs (carriers) allow direct placement of pallets on the AMR, enabling collaboration with conveyors and other robots.

Automate picking work

Issue Stressful walking and searching in the warehouse



Benefit Reduce walking time, increase throughput



Reduce operator workload, and increase picking throughput by letting the AMRs search and transport goods to the operators. Accommodate goods of different sizes and shapes by freely adjusting the shelf spaces inside the PODs (shelves). Increase space efficiency by closely consolidating PODs (shelves).

AMR Product Details



*The images are for reference only.

Products	T6-800	T6-1200/1500
Dimensions	W980×D680×H245mm W38.58×D26.77×H9.65in.	W1160×D860×H245mm W45.67×D33.86×H9.65in.
Weight	160kg 352.74lb	220kg 485lb.
Maximum payload	800kg 1,763.7lb	1200kg/1500kg 2,645.55lb./3,306.93lb.
Obstacle avoidance method	Lidar obstacle avoidance	Lidar obstacle avoidance
Obstacle detection angle	210° in direction of travel	210° in direction of travel
Lifting height	60mm 2.36in.	60mm 2.36in.
Lifting speed	2.5 second	2.5 second
Rotating diameter	980mm 38.58in.	1160mm 45.67in.
Positioning accuracy	±10mm ±0.4in.	±10mm ±0.4in.
Comprehensive battery life	8 hours	12 hours
Time until full charge	less than 1.5 hours	less than 2 hours
Operating temperature	0~50°C (-20°C optional) 32~122°F (-4°F optional)	0~50°C (-20°C optional) 32~122°F (-4°F optional)
Permissible level difference	5mm 0.2in.	5mm 0.2in.
Required floor flatness	≤5mm/m ² ≤0.02in./ft.2	≤5mm/m ² ≤0.02in./ft.2
Communication method	Wi-Fi 2.4GHz/5GHz	Wi-Fi 2.4GHz/5GHz
Safety	Traffic control, Lidar obstacle avoidance, contact sensor	
Warning methods	Lights, sound	

●The information contained herein is as of June 2023 and is subject to change without notice. ●The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of TOSHIBA or others. ●TOSHIBA products should not be embedded to the downstream products which are prohibited to be produced and sold, under any law and regulations. ●TOSHIBA does not take any responsibility for incidental damages (including without limitation loss of business profit, business interruption, loss of business information, and other pecuniary damages) arising out of the use or disability to use TOSHIBA products. ●TOSHIBA products listed in this document are intended for usage in general electronics applications. ●TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage includes atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, and all types of safety devices. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk. ●The products described in this document may include products subject to the foreign exchange and foreign trade laws. ●The products described in this document may contain components made in the United States and subject to export control of the U.S. authorities. Diversion contrary to the U.S. law is prohibited.

Toshiba Infrastructure Systems & Solutions Corporation

Security & Automation Systems Division, Logistics & Postal Automation Solutions Sales & Marketing Dept.

72-34, Horikawa-cho, Saiwai-ku, Kawasaki, Kanagawa 212-8585, Japan Tel: +81-44-576-6718

<https://www.global.toshiba/ww/products-solutions/security-automation/robotics-logistics/product/amr.html>

