

Zebra Robotics Automation™

Zebra Roller Series

Increase efficiency and productivity with autonomous mobile robot (AMR) solutions designed for flexibility and safety





Zebra Roller Series

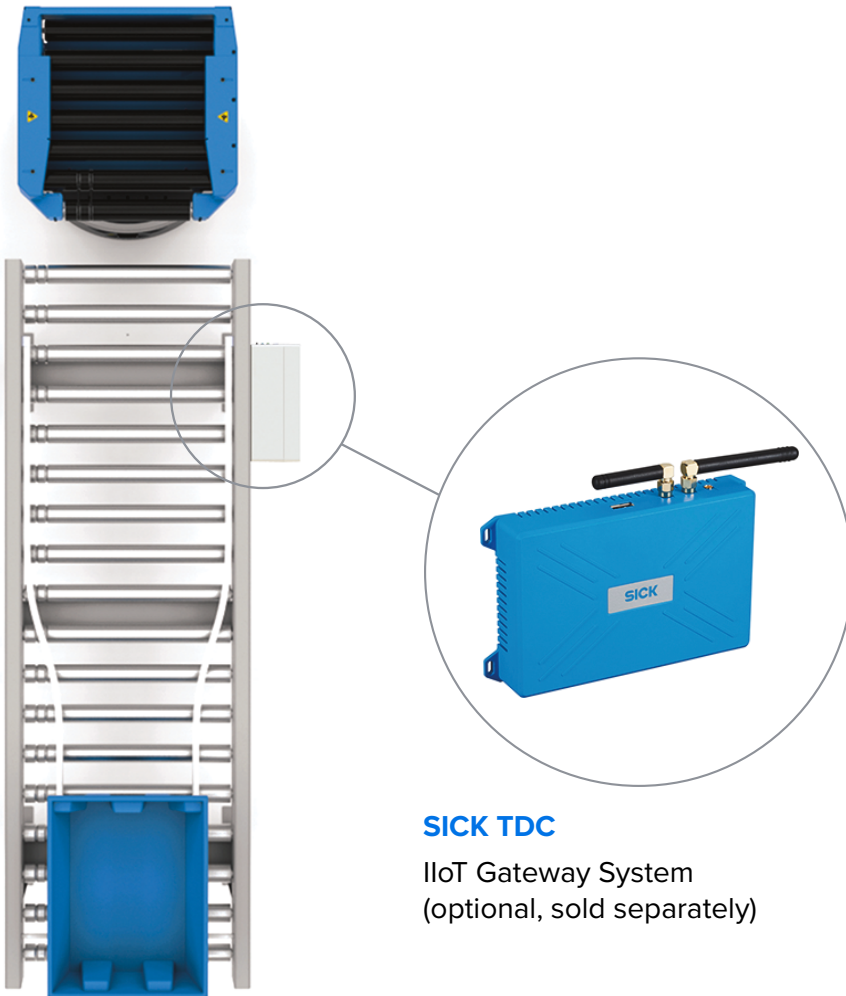
Automate Conveyor Delivery to Increase Workforce Productivity

Key Benefits

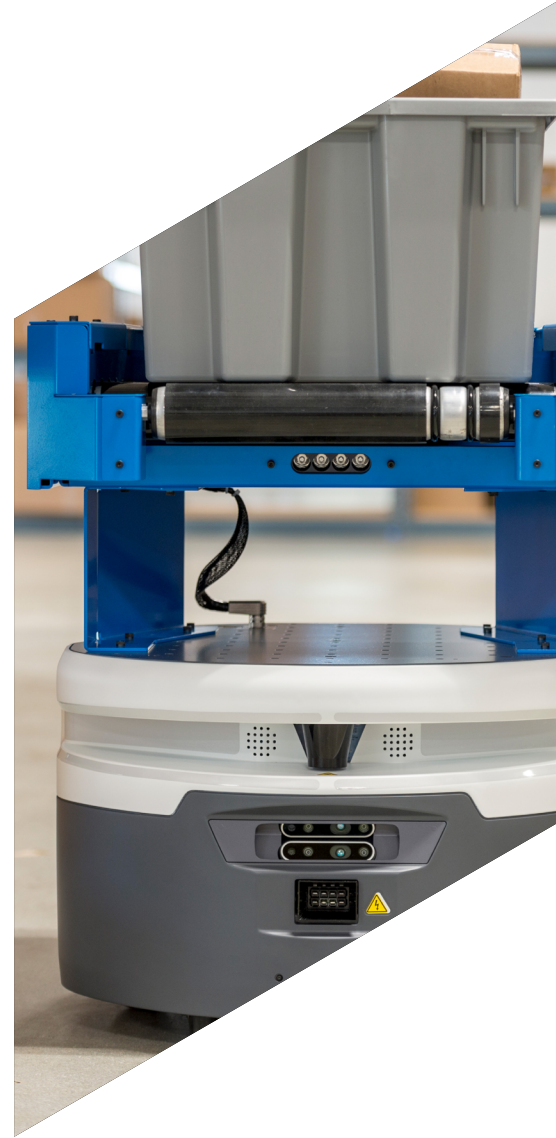
- Automate loading and unloading of totes and bins from conveyors or ASRSs
- Simplify worker/robot collaboration with touchscreen, smart LEDs and barcode scans
- Automatically trigger induction or deduction via Zebra Symmetry™ software
- Integrate existing conveyor controls with Symmetry using optional IIoT smart gateway
- Increase utilization in highly dynamic workspaces via Zebra's world-leading UltraSLAM™ technology

SICK TDC Smart Gateway

The SICK Telematic Data Collector (optional, sold separately) is a networked industrial I/O device that serves as a bridge between the Zebra Symmetry and other industrial equipment such as conveyors, doors and air showers. Automate hand-offs between Zebra Roller Series robots and active powered conveyors by connecting a SICK TDC to any conveyor controller.



SICK TDC
IIoT Gateway System
(optional, sold separately)



Coexist with Current Conveyor Infrastructure

Conveyor systems have dramatically increased industrial efficiency for many years. However, these fixed assets are hard to adapt to today's ever-changing material transport requirements. Zebra's Roller solution brings adaptability and increased levels of automation in these conveyor environments.



Specifications	Zebra Roller	Zebra Roller Guide
Weight	186.2 lbs. (84.5 kg) Additional weight with riser installed: Riser 1: 5.5 lbs. (2.5 kg)/Riser 2: 6.7 lbs. (3.0 kg)	201.8lb (91.5kg) Additional weight with riser installed: Riser 1: 5.5 lbs. (2.5 kg)/Riser 2: 6.7 lbs. (3.0 kg)
Supported Conveyor Heights	18 in. (45.7 cm) or 22.75 in.–30 in. (57.8 cm–76.2 cm) in 0.25 in. (6.35 mm) increments	18 in. (45.7 cm) or 22.75 in.–30 in. (57.8 cm–76.2 cm) in 0.25 in. (6.35 mm) increments
Maximum Payload	Up to 176 lbs. (80 kg), depending on configuration	Up to 160 lbs. (73kg), depending on configuration
Base Footprint	23.6 in. (59.9 cm) length x 21.7 in. (55.1 cm) width	23.6 in. (59.9 cm) length, 21.7 in. (55.1 cm) width
Cargo Dimensions	23.9 (60.9 cm) length x 17.1 in. (43.5 cm) width x 17.7 in. (45 cm) height, depending on riser height	23.9 (60.9 cm) length x 17.1 in. (43.5 cm) width x 17.7 in. (45 cm) height, depending on riser height
Maximum Speed	3.9 mph (1.75 m/s)	3.9 mph (1.75 m/s)
Turning Radius	Turn in place	Turn in place
Nominal Continuous Runtime	~9 hrs	~9 hrs
Environment	Indoors	Indoors
Charging	Autonomous docking	Autonomous docking
Charge Time	3 hrs to 90%	3 hrs to 90%
2D Laser Sensor	SICK, 82 ft. (25 m), 220°	SICK, 82 ft. (25 m), 220°
3D Camera	Yes (x2)	Yes (x2)
UltraSLAM™ Enabled	Yes	Yes
CE, ANSI/RIA R15.08, and UKCA compliant	Yes	Yes

Key Workflows



ASRS to Dropoff



End of Line Handling



Order Picking



Post-pick Transport



Quality Assurance



Raw Material Delivery



Returns Processing



Rush Orders



Work-in-process Transport




Zebra Flex Series
Optimize fulfillment operations with intelligent, flexible automation



Zebra Roller Series
Integrate with current conveyor infrastructure



Zebra Connect
Automatically pick up and drop off carts up to 125 lbs. (57 kg)

 **WARNING:** This product uses components which emit invisible laser radiation. Incorrect use or observing the safety laser scanner through optical instruments (such as magnifying glasses, lenses, telescopes) may be hazardous for the eyes.

CE Zebra AMRs carry a CE mark and meet regulatory requirements for product safety.

ANSI/RIA R15.08

Zebra AMRs conform with R15.08 safety standards published by the RIA (Robotics Industry Association)

NOTE: Product appearance is subject to change

For more information about Zebra's autonomous mobile robot solutions, please visit zebra.com/automation-solutions



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