

WAREHOUSE AUTOMATION



Using digitalization, robotics, and smart operations to improve every aspect of warehouse management

Technology companies with high-value, fast-moving products – including many items of stock (multiple SKUs) – maintain inventory at strategically located hubs. Advanced inventory management and facility automation are becoming essential in high-cost countries.

TYPICAL BUSINESS CHALLENGES

- Maximizing productivity
- Achieving more sustainable operations
- Mitigating high labor costs
- Minimizing the warehouse footprint
- Advancing the digitalization agenda



DHL SOLUTION

Warehouse automation increases productivity and inventory accuracy, reduces labor costs, and improves safety. With best-fit digital systems and robotics to optimize warehouse tasks, resources, and inventory, this solution covers receiving/put-away, storing, picking, packing, and dispatch/delivery.

SOLVING YOUR BUSINESS CHALLENGES

- ✓ **Maximizing productivity** – Greater speed, accuracy, and quality in inventory handling and storage; shorter lead times; less downtime
- ✓ **Achieving more sustainable operations** – Resolve the key issues of labor availability, high staff turnover, physical fatigue, and more
- ✓ **Mitigating high labor costs** – Reduce the required headcount of warehouse operatives
- ✓ **Minimizing the warehouse footprint** – Better space utilization; dynamic space planning and inventory management
- ✓ **Advancing the digitalization agenda** – Automation and robotics in the warehouse may lead to successful implementations in other parts of the organization

IMPROVING EVERY ASPECT OF WAREHOUSE MANAGEMENT

Receiving/Put-away	Storage	Picking		Packing		Dispatch/Delivery
Intelligent Process Automation (RPA complemented by machine learning and adjacent technologies such as OCR and smart workflow tools)						
Supporting Robots (e.g. cleaning robots, security robots, dimensioning)						
Smart Operations						
Indoor Robotic Transport	Inventory Mgmt. Robots	Assisted Picking Robots	Wearable Devices	Goods-To-Person Robots	Robotic Arms	Wrapping Robots
						Asset Tracking & Monitoring (truck, shipment unit)
Asset Tracking & Monitoring (Robot, colleague, pallet/shipment unit)						



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KEY BENEFITS FOR YOUR BUSINESS



DATA-DRIVEN

Process automation, machine learning, optical character recognition, workflow tools, analytics, and more



CONTROL

Asset tracking and monitoring



OPTIMIZATION

Focus on improving tasks, resources, and inventory



PEACE OF MIND

Extensive DHL experience in warehouse automation