Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 79.5%
Throughput Increase: 34.2%
Labor Cost Reduction: 28.5%
ROI Period: 2.3 years

Warehouse Performance

Warehouse	Location	Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automation Level	Status
Distribution Center A	Chicago, IL	69.0%	1,727	1,983	98.4%	83.0%	Optimized
Distribution Center B	Dallas, TX	98.0%	1,947	2,061	98.7%	65.1%	Improvement Needed
Distribution Center C	Atlanta, GA	116.7%	1,551	3,264	95.7%	89.4%	Optimized
Distribution Center D	Los Angeles, CA	67.6%	1,051	3,435	96.4%	92.7%	Optimized
Distribution Center E	Newark, NJ	63.1%	2,986	2,480	96.8%	67.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement voice-

picking system to improve accuracy to 99.8%

• Upgrade WMS integration for real-time inventory visibility

• Add automated sortation system for small package handling

• Implement predictive analytics for demand-based staffing

• Consider AS/RS system for high-velocity SKUs