Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 81.4%
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	82.9%	1,093	3,197	98.7%	84.1%	Optimized
Distribution Center B	Dallas, TX	77.4%	2,860	2,643	97.2%	63.9%	Improvement Needed
Distribution Center C	Atlanta, GA	65.0%	1,019	2,252	96.9%	78.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.7%	1,449	3,951	99.4%	89.0%	Optimized
Distribution Center E	Newark, NJ	37.7%	2,418	3,091	99.0%	91.4%	Optimized

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