Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 84.0%
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	90.3%	2,992	2,218	98.3%	92.8%	Optimized
Distribution Center B	Dallas, TX	74.7%	1,688	2,053	96.9%	84.3%	Optimized
Distribution Center C	Atlanta, GA	70.8%	2,524	3,781	97.2%	75.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.1%	1,308	1,859	96.9%	79.5%	Improvement Needed
Distribution Center E	Newark, NJ	121.9%	1,223	2,318	97.7%	87.7%	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