Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 74
Average Utilization: 81.8%
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	83.2%	1,906	2,032	97.4%	89.0%	Optimized
Distribution Center B	Dallas, TX	43.6%	1,163	3,651	97.2%	66.0%	Improvement Needed
Distribution Center C	Atlanta, GA	69.4%	1,615	1,561	95.2%	90.9%	Optimized
Distribution Center D	Los Angeles, CA	54.6%	2,795	3,347	96.4%	90.0%	Optimized
Distribution Center E	Newark, NJ	43.1%	1,016	1,718	98.7%	73.2%	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