Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 82.7%
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	73.0%	2,794	2,482	98.2%	66.8%	Improvement Needed
Distribution Center B	Dallas, TX	65.3%	2,456	2,944	97.7%	76.3%	Improvement Needed
Distribution Center C	Atlanta, GA	82.1%	2,110	2,158	98.6%	88.1%	Optimized
Distribution Center D	Los Angeles, CA	104.9%	2,811	1,905	96.9%	89.0%	Optimized
Distribution Center E	Newark, NJ	39.8%	1,772	2,582	95.9%	93.2%	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