Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 77.8%
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	34.6%	2,108	3,483	96.2%	80.8%	Optimized
Distribution Center B	Dallas, TX	59.0%	2,115	3,353	99.1%	74.3%	Improvement Needed
Distribution Center C	Atlanta, GA	44.4%	2,966	1,616	96.3%	82.5%	Optimized
Distribution Center D	Los Angeles, CA	73.6%	2,361	3,725	95.8%	62.5%	Improvement Needed
Distribution Center E	Newark, NJ	62.0%	2,661	2,608	96.8%	89.0%	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