Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 19
Average Utilization: 75.5%
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	51.4%	2,228	2,399	96.3%	82.4%	Optimized
Distribution Center B	Dallas, TX	51.4%	2,107	2,184	95.0%	61.2%	Improvement Needed
Distribution Center C	Atlanta, GA	55.5%	2,724	3,946	95.9%	62.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	43.6%	1,902	3,945	97.7%	88.2%	Optimized
Distribution Center E	Newark, NJ	55.0%	1,343	2,321	97.9%	83.3%	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