Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 79.0%
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	44.9%	2,750	3,233	95.9%	93.6%	Optimized
Distribution Center B	Dallas, TX	101.4%	1,318	3,361	95.0%	84.4%	Optimized
Distribution Center C	Atlanta, GA	92.9%	1,266	2,800	97.3%	91.0%	Optimized
Distribution Center D	Los Angeles, CA	110.0%	2,689	3,909	99.5%	62.6%	Improvement Needed
Distribution Center E	Newark, NJ	67.6%	2,700	3,209	96.2%	63.3%	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