Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 75.6%
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	45.6%	1,027	3,527	96.2%	81.9%	Optimized
Distribution Center B	Dallas, TX	44.9%	1,325	1,884	96.2%	67.0%	Improvement Needed
Distribution Center C	Atlanta, GA	63.7%	2,718	3,685	98.2%	81.6%	Optimized
Distribution Center D	Los Angeles, CA	68.5%	1,912	2,867	97.2%	64.8%	Improvement Needed
Distribution Center E	Newark, NJ	71.1%	2,179	1,601	95.5%	82.8%	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