Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 82.2%
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	76.2%	1,031	3,307	97.5%	87.8%	Optimized
Distribution Center B	Dallas, TX	45.0%	1,584	2,823	96.2%	87.7%	Optimized
Distribution Center C	Atlanta, GA	71.8%	2,362	2,776	98.9%	92.5%	Optimized
Distribution Center D	Los Angeles, CA	70.4%	1,082	2,468	96.5%	75.2%	Improvement Needed
Distribution Center E	Newark, NJ	72.7%	2,459	3,762	96.2%	67.8%	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