Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 82.7%
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	96.1%	2,306	3,276	95.2%	80.5%	Optimized
Distribution Center B	Dallas, TX	48.3%	2,481	3,717	96.3%	82.9%	Optimized
Distribution Center C	Atlanta, GA	32.9%	1,097	2,710	95.1%	80.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.6%	1,244	2,508	98.9%	78.9%	Improvement Needed
Distribution Center E	Newark, NJ	71.8%	2,070	3,458	98.2%	91.2%	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