Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 58
Average Utilization: 78.8%
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	66.9%	2,315	1,876	95.1%	93.5%	Optimized
Distribution Center B	Dallas, TX	70.7%	2,373	1,850	97.4%	73.4%	Improvement Needed
Distribution Center C	Atlanta, GA	59.2%	1,839	2,214	99.1%	78.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	44.7%	1,701	3,603	97.2%	74.3%	Improvement Needed
Distribution Center E	Newark, NJ	96.1%	2,781	3,643	98.6%	74.7%	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