Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 73
Average Utilization: 75.7%
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	96.2%	1,879	2,740	96.6%	69.7%	Improvement Needed
Distribution Center B	Dallas, TX	84.1%	2,733	3,351	97.4%	69.6%	Improvement Needed
Distribution Center C	Atlanta, GA	67.1%	1,041	2,383	96.3%	68.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	84.8%	1,054	3,562	97.1%	92.1%	Optimized
Distribution Center E	Newark, NJ	73.6%	1,956	2,167	98.4%	78.8%	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