Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 74.8%
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	73.2%	1,784	1,658	95.2%	78.9%	Improvement Needed
Distribution Center B	Dallas, TX	64.3%	1,013	1,940	99.0%	79.1%	Improvement Needed
Distribution Center C	Atlanta, GA	48.7%	2,769	2,781	95.1%	83.0%	Optimized
Distribution Center D	Los Angeles, CA	73.0%	1,514	2,560	97.2%	63.5%	Improvement Needed
Distribution Center E	Newark, NJ	58.1%	1,135	2,898	98.1%	69.7%	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