Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 70.8%
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	92.4%	1,758	3,833	97.3%	79.4%	Improvement Needed
Distribution Center B	Dallas, TX	65.3%	1,961	2,965	98.8%	60.8%	Improvement Needed
Distribution Center C	Atlanta, GA	106.8%	1,900	3,408	96.6%	61.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.2%	1,872	2,090	99.3%	79.6%	Improvement Needed
Distribution Center E	Newark, NJ	51.2%	1,109	2,699	99.0%	72.4%	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