Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 74.0%
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	120.9%	2,197	2,864	97.3%	64.0%	Improvement Needed
Distribution Center B	Dallas, TX	54.4%	2,980	3,903	96.2%	78.9%	Improvement Needed
Distribution Center C	Atlanta, GA	70.7%	2,142	2,646	95.3%	73.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	67.0%	2,719	1,904	95.0%	68.5%	Improvement Needed
Distribution Center E	Newark, NJ	72.4%	1,482	3,624	95.6%	85.4%	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