Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 71
Average Utilization: 73.4%
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	48.6%	2,409	2,629	95.7%	76.8%	Improvement Needed
Distribution Center B	Dallas, TX	90.2%	1,965	1,690	95.9%	69.8%	Improvement Needed
Distribution Center C	Atlanta, GA	62.5%	2,312	1,956	98.4%	66.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.5%	1,958	3,259	96.1%	65.2%	Improvement Needed
Distribution Center E	Newark, NJ	86.8%	2,021	1,830	95.9%	88.2%	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