Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 30
Average Utilization: 71.5%
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	130.1%	2,662	2,601	97.7%	67.2%	Improvement Needed
Distribution Center B	Dallas, TX	89.8%	1,841	3,776	96.4%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	73.6%	2,966	3,266	98.5%	67.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.9%	1,792	1,971	98.8%	81.4%	Optimized
Distribution Center E	Newark, NJ	32.7%	1,361	2,219	98.9%	68.7%	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