Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 78.8%
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	88.1%	2,440	3,682	99.5%	89.2%	Optimized
Distribution Center B	Dallas, TX	100.4%	2,535	1,505	95.2%	73.2%	Improvement Needed
Distribution Center C	Atlanta, GA	78.5%	1,846	3,829	96.7%	83.6%	Optimized
Distribution Center D	Los Angeles, CA	46.6%	2,895	2,745	96.5%	87.4%	Optimized
Distribution Center E	Newark, NJ	67.3%	1,799	2,960	97.2%	60.8%	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