Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 24
Average Utilization: 79.9%
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	54.9%	2,084	1,580	96.4%	63.6%	Improvement Needed
Distribution Center B	Dallas, TX	94.3%	1,240	3,819	96.8%	78.2%	Improvement Needed
Distribution Center C	Atlanta, GA	65.3%	1,476	1,884	95.9%	85.2%	Optimized
Distribution Center D	Los Angeles, CA	65.2%	1,960	2,924	98.2%	82.0%	Optimized
Distribution Center E	Newark, NJ	43.4%	1,208	1,522	99.3%	90.6%	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