Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 81.2%
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	67.5%	1,620	3,979	97.5%	93.8%	Optimized
Distribution Center B	Dallas, TX	60.5%	2,787	1,681	98.9%	90.3%	Optimized
Distribution Center C	Atlanta, GA	84.2%	2,620	3,283	99.0%	66.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	70.7%	2,644	1,921	96.2%	80.0%	Optimized
Distribution Center E	Newark, NJ	95.7%	2,188	3,922	99.1%	76.0%	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