Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 77.6%
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	66.2%	1,327	3,969	97.0%	86.3%	Optimized
Distribution Center B	Dallas, TX	61.1%	1,740	2,600	98.5%	86.0%	Optimized
Distribution Center C	Atlanta, GA	85.9%	1,247	3,830	95.1%	67.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.2%	2,555	1,817	97.2%	82.3%	Optimized
Distribution Center E	Newark, NJ	73.8%	2,618	3,056	96.0%	65.8%	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