Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
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	86.6%	2,059	3,108	97.3%	90.2%	Optimized
Distribution Center B	Dallas, TX	69.7%	2,840	3,431	99.3%	81.4%	Optimized
Distribution Center C	Atlanta, GA	80.7%	1,637	2,134	96.0%	81.0%	Optimized
Distribution Center D	Los Angeles, CA	42.9%	1,762	3,721	95.4%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	75.3%	2,640	1,871	96.0%	73.6%	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