Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 84.5%
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	69.3%	2,609	2,066	95.9%	93.7%	Optimized
Distribution Center B	Dallas, TX	64.7%	1,431	2,478	96.6%	92.4%	Optimized
Distribution Center C	Atlanta, GA	68.1%	1,440	1,794	95.7%	78.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	106.2%	1,216	2,974	96.4%	80.7%	Optimized
Distribution Center E	Newark, NJ	72.6%	2,388	2,157	96.6%	77.0%	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