Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 72.2%
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	66.6%	2,772	2,017	96.1%	64.5%	Improvement Needed
Distribution Center B	Dallas, TX	78.8%	1,201	1,879	97.3%	68.1%	Improvement Needed
Distribution Center C	Atlanta, GA	91.7%	2,610	2,038	98.5%	83.6%	Optimized
Distribution Center D	Los Angeles, CA	99.1%	1,892	2,605	95.2%	84.6%	Optimized
Distribution Center E	Newark, NJ	49.8%	2,231	2,753	95.3%	60.2%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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