Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 77.3%
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	71.0%	1,336	3,941	96.8%	81.5%	Optimized
Distribution Center B	Dallas, TX	85.7%	1,285	2,376	97.3%	65.3%	Improvement Needed
Distribution Center C	Atlanta, GA	84.3%	1,742	3,387	96.4%	80.9%	Optimized
Distribution Center D	Los Angeles, CA	78.2%	1,292	3,423	98.6%	69.8%	Improvement Needed
Distribution Center E	Newark, NJ	79.9%	1,384	3,738	96.1%	89.1%	Optimized

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