Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 85.3%
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	45.7%	2,703	2,176	97.4%	85.1%	Optimized
Distribution Center B	Dallas, TX	70.8%	1,116	2,497	99.0%	92.7%	Optimized
Distribution Center C	Atlanta, GA	84.9%	1,879	1,593	95.3%	89.7%	Optimized
Distribution Center D	Los Angeles, CA	78.1%	2,135	2,007	99.1%	79.4%	Improvement Needed
Distribution Center E	Newark, NJ	70.9%	2,990	2,791	98.1%	79.7%	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