Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
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	68.6%	1,723	3,214	95.1%	88.4%	Optimized
Distribution Center B	Dallas, TX	70.3%	1,728	3,100	97.7%	80.3%	Optimized
Distribution Center C	Atlanta, GA	79.4%	1,698	2,602	97.0%	83.8%	Optimized
Distribution Center D	Los Angeles, CA	71.1%	1,102	3,516	95.2%	62.7%	Improvement Needed
Distribution Center E	Newark, NJ	42.0%	1,987	2,560	99.0%	72.8%	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