Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 76.4%
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	51.4%	2,673	1,677	95.4%	90.2%	Optimized
Distribution Center B	Dallas, TX	124.4%	2,025	3,633	98.9%	60.7%	Improvement Needed
Distribution Center C	Atlanta, GA	71.7%	2,139	1,783	95.0%	82.8%	Optimized
Distribution Center D	Los Angeles, CA	38.0%	2,176	1,918	95.5%	63.1%	Improvement Needed
Distribution Center E	Newark, NJ	65.4%	2,513	2,869	96.8%	85.1%	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