Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 80.5%
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	108.9%	2,218	3,622	98.9%	91.0%	Optimized
Distribution Center B	Dallas, TX	117.1%	2,110	1,695	95.3%	68.0%	Improvement Needed
Distribution Center C	Atlanta, GA	59.1%	2,795	3,620	95.0%	80.5%	Optimized
Distribution Center D	Los Angeles, CA	121.5%	2,642	2,922	95.3%	83.9%	Optimized
Distribution Center E	Newark, NJ	72.8%	2,676	3,566	97.1%	79.3%	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