Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 78.9%
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	56.1%	2,948	3,998	95.3%	66.0%	Improvement Needed
Distribution Center B	Dallas, TX	56.8%	2,646	2,003	98.1%	81.8%	Optimized
Distribution Center C	Atlanta, GA	59.3%	2,899	2,759	96.7%	74.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.7%	2,167	1,638	95.2%	89.2%	Optimized
Distribution Center E	Newark, NJ	65.2%	2,524	3,758	95.3%	83.2%	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