Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 27
Average Utilization: 83.6%
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	57.9%	1,089	2,568	98.7%	78.4%	Improvement Needed
Distribution Center B	Dallas, TX	71.3%	1,394	3,880	95.9%	84.4%	Optimized
Distribution Center C	Atlanta, GA	81.1%	1,808	1,540	97.2%	72.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	65.5%	1,803	3,382	95.7%	90.6%	Optimized
Distribution Center E	Newark, NJ	109.3%	1,637	2,449	95.9%	91.9%	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