Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 77.1%
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	70.4%	1,761	3,959	97.8%	62.2%	Improvement Needed
Distribution Center B	Dallas, TX	59.5%	1,205	2,105	96.5%	92.0%	Optimized
Distribution Center C	Atlanta, GA	52.7%	1,747	3,670	95.6%	62.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.4%	2,690	3,394	97.2%	84.2%	Optimized
Distribution Center E	Newark, NJ	64.8%	2,206	2,185	98.1%	84.1%	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