Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 83.9%
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	73.6%	2,065	2,431	96.9%	89.7%	Optimized
Distribution Center B	Dallas, TX	37.5%	1,096	2,875	97.0%	87.8%	Optimized
Distribution Center C	Atlanta, GA	41.5%	1,534	3,899	96.4%	71.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	57.5%	1,428	3,988	98.8%	83.1%	Optimized
Distribution Center E	Newark, NJ	67.0%	1,844	2,360	96.2%	87.7%	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