Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 78.5%
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	82.1%	2,735	3,127	96.2%	89.8%	Optimized
Distribution Center B	Dallas, TX	89.9%	1,096	2,674	99.2%	94.7%	Optimized
Distribution Center C	Atlanta, GA	45.8%	2,276	3,762	95.5%	72.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	103.3%	2,256	2,975	97.4%	64.7%	Improvement Needed
Distribution Center E	Newark, NJ	51.4%	2,799	2,761	97.6%	71.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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