Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 77.2%
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	72.1%	2,893	3,412	99.3%	83.9%	Optimized
Distribution Center B	Dallas, TX	59.7%	1,119	2,186	95.7%	68.4%	Improvement Needed
Distribution Center C	Atlanta, GA	62.7%	1,852	1,826	99.4%	73.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	89.0%	1,304	2,598	99.2%	68.5%	Improvement Needed
Distribution Center E	Newark, NJ	86.7%	1,113	3,348	97.1%	91.6%	Optimized

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