Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 74.1%
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	68.0%	1,300	3,623	95.7%	92.3%	Optimized
Distribution Center B	Dallas, TX	76.2%	1,609	2,262	95.7%	60.3%	Improvement Needed
Distribution Center C	Atlanta, GA	79.7%	1,456	1,587	98.0%	64.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.0%	1,591	1,553	99.5%	83.0%	Optimized
Distribution Center E	Newark, NJ	63.9%	1,639	2,819	96.0%	71.0%	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