Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 76.2%
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	61.3%	2,053	2,465	95.5%	81.1%	Optimized
Distribution Center B	Dallas, TX	62.3%	1,686	3,648	95.3%	62.8%	Improvement Needed
Distribution Center C	Atlanta, GA	86.7%	2,125	3,164	98.1%	87.5%	Optimized
Distribution Center D	Los Angeles, CA	77.7%	1,387	2,129	99.3%	78.4%	Improvement Needed
Distribution Center E	Newark, NJ	44.8%	1,018	2,108	97.7%	71.2%	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