Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.2%
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	35.2%	1,809	2,878	95.6%	85.9%	Optimized
Distribution Center B	Dallas, TX	85.7%	1,605	2,072	95.1%	73.0%	Improvement Needed
Distribution Center C	Atlanta, GA	70.5%	2,966	1,738	98.8%	82.1%	Optimized
Distribution Center D	Los Angeles, CA	68.8%	2,222	2,145	95.7%	62.0%	Improvement Needed
Distribution Center E	Newark, NJ	54.0%	1,923	3,799	95.5%	73.1%	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