Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 72.2%
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	56.2%	2,598	1,739	99.4%	84.6%	Optimized
Distribution Center B	Dallas, TX	65.9%	1,888	3,911	96.8%	60.7%	Improvement Needed
Distribution Center C	Atlanta, GA	42.2%	2,689	3,653	98.7%	69.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.7%	2,622	2,175	98.8%	83.2%	Optimized
Distribution Center E	Newark, NJ	34.3%	1,994	2,999	98.5%	62.9%	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