Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 79.4%
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	31.9%	2,525	2,248	97.8%	85.5%	Optimized
Distribution Center B	Dallas, TX	115.9%	1,700	1,580	99.1%	75.7%	Improvement Needed
Distribution Center C	Atlanta, GA	36.0%	2,234	1,648	97.4%	68.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	56.0%	1,430	3,928	96.5%	91.1%	Optimized
Distribution Center E	Newark, NJ	62.2%	1,532	3,997	96.5%	76.2%	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