Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
Average Utilization: 82.4%
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	42.4%	1,462	3,590	96.0%	84.4%	Optimized
Distribution Center B	Dallas, TX	84.4%	1,467	3,685	98.5%	73.5%	Improvement Needed
Distribution Center C	Atlanta, GA	89.5%	2,479	1,920	96.1%	79.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	42.3%	2,766	1,882	97.2%	94.5%	Optimized
Distribution Center E	Newark, NJ	81.2%	1,985	3,527	98.2%	79.9%	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