Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 76.6%
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	70.2%	1,752	1,804	99.2%	64.1%	Improvement Needed
Distribution Center B	Dallas, TX	62.1%	1,748	3,631	98.6%	76.2%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	1,850	2,537	96.9%	82.0%	Optimized
Distribution Center D	Los Angeles, CA	62.5%	1,170	2,511	95.1%	69.9%	Improvement Needed
Distribution Center E	Newark, NJ	52.4%	2,290	3,737	98.9%	90.6%	Optimized

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