Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 72.7%
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	78.2%	1,786	3,620	96.3%	64.3%	Improvement Needed
Distribution Center B	Dallas, TX	70.3%	1,884	2,311	95.5%	83.2%	Optimized
Distribution Center C	Atlanta, GA	35.4%	2,339	3,392	97.5%	72.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	48.0%	1,045	2,068	98.8%	81.2%	Optimized
Distribution Center E	Newark, NJ	85.3%	1,614	3,026	98.4%	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