Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 80.5%
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	50.7%	1,290	3,880	96.1%	69.8%	Improvement Needed
Distribution Center B	Dallas, TX	71.9%	1,473	2,699	96.4%	92.7%	Optimized
Distribution Center C	Atlanta, GA	66.3%	1,603	2,977	95.1%	91.0%	Optimized
Distribution Center D	Los Angeles, CA	46.7%	2,419	2,716	97.3%	78.4%	Improvement Needed
Distribution Center E	Newark, NJ	44.1%	2,134	2,313	96.4%	70.6%	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