Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 82.0%
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	73.3%	2,758	3,892	95.0%	89.2%	Optimized
Distribution Center B	Dallas, TX	69.6%	2,919	2,849	97.0%	80.6%	Optimized
Distribution Center C	Atlanta, GA	75.3%	2,219	2,612	97.0%	83.6%	Optimized
Distribution Center D	Los Angeles, CA	91.3%	2,592	1,800	98.8%	85.1%	Optimized
Distribution Center E	Newark, NJ	69.3%	2,560	1,690	99.2%	71.5%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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