Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 83.0%
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	83.8%	2,130	2,247	98.7%	85.8%	Optimized
Distribution Center B	Dallas, TX	40.1%	1,667	2,230	99.3%	67.8%	Improvement Needed
Distribution Center C	Atlanta, GA	84.8%	2,462	2,226	96.9%	89.0%	Optimized
Distribution Center D	Los Angeles, CA	67.3%	2,437	3,508	96.9%	87.9%	Optimized
Distribution Center E	Newark, NJ	71.9%	1,739	1,577	98.9%	84.4%	Optimized

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