Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 75.1%
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	78.9%	1,023	1,890	98.2%	85.8%	Optimized
Distribution Center B	Dallas, TX	79.4%	2,590	2,757	95.2%	73.6%	Improvement Needed
Distribution Center C	Atlanta, GA	40.3%	1,497	2,453	95.6%	79.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.0%	2,863	2,127	99.1%	60.4%	Improvement Needed
Distribution Center E	Newark, NJ	98.4%	1,891	2,096	99.2%	76.1%	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