Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 71.8%
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	71.6%	2,020	2,050	99.1%	62.1%	Improvement Needed
Distribution Center B	Dallas, TX	102.1%	2,739	3,988	96.7%	80.0%	Improvement Needed
Distribution Center C	Atlanta, GA	79.1%	1,271	2,141	95.2%	73.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	71.5%	2,514	3,481	95.2%	60.8%	Improvement Needed
Distribution Center E	Newark, NJ	113.4%	2,427	1,672	99.0%	82.6%	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