Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 70
Average Utilization: 74.6%
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	30.8%	1,310	2,615	96.4%	85.1%	Optimized
Distribution Center B	Dallas, TX	70.5%	1,597	1,847	97.8%	66.5%	Improvement Needed
Distribution Center C	Atlanta, GA	126.4%	1,840	1,852	97.9%	70.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	116.9%	2,828	3,170	97.1%	72.7%	Improvement Needed
Distribution Center E	Newark, NJ	100.5%	2,855	2,425	95.2%	78.1%	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