Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 76.5%
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	49.6%	2,311	3,816	95.2%	76.0%	Improvement Needed
Distribution Center B	Dallas, TX	57.3%	1,632	3,842	97.7%	76.4%	Improvement Needed
Distribution Center C	Atlanta, GA	46.2%	1,819	2,780	97.1%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	72.4%	1,369	3,755	96.9%	78.7%	Improvement Needed
Distribution Center E	Newark, NJ	102.4%	1,652	3,508	99.3%	80.4%	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