Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 73.2%
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	80.3%	2,913	3,305	98.7%	77.6%	Improvement Needed
Distribution Center B	Dallas, TX	60.1%	1,042	1,547	99.3%	80.5%	Optimized
Distribution Center C	Atlanta, GA	50.1%	2,102	2,944	97.2%	78.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	45.7%	2,585	1,773	96.1%	60.5%	Improvement Needed
Distribution Center E	Newark, NJ	74.5%	2,188	2,339	97.5%	69.4%	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