Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 77.0%
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	104.4%	1,535	1,668	95.1%	88.0%	Optimized
Distribution Center B	Dallas, TX	118.5%	2,009	2,797	95.5%	73.3%	Improvement Needed
Distribution Center C	Atlanta, GA	65.2%	2,481	3,663	96.7%	74.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	46.4%	2,606	2,041	96.8%	79.8%	Improvement Needed
Distribution Center E	Newark, NJ	52.7%	1,374	3,458	97.0%	69.0%	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