Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 71.7%
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	72.7%	1,760	3,211	98.5%	84.7%	Optimized
Distribution Center B	Dallas, TX	107.4%	2,915	3,880	98.9%	69.0%	Improvement Needed
Distribution Center C	Atlanta, GA	54.3%	1,916	2,979	95.3%	71.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	38.8%	1,632	2,906	95.2%	71.5%	Improvement Needed
Distribution Center E	Newark, NJ	104.8%	2,302	3,403	95.2%	62.1%	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