Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 57
Average Utilization: 74.4%
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	38.3%	1,509	3,818	97.2%	62.9%	Improvement Needed
Distribution Center B	Dallas, TX	120.3%	1,815	3,198	98.1%	76.5%	Improvement Needed
Distribution Center C	Atlanta, GA	81.8%	2,735	2,058	96.6%	71.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.3%	2,146	3,339	96.4%	89.2%	Optimized
Distribution Center E	Newark, NJ	110.9%	1,013	3,481	98.1%	71.7%	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