Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 81
Average Utilization: 75.1%
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	80.1%	1,466	2,391	96.6%	64.1%	Improvement Needed
Distribution Center B	Dallas, TX	56.2%	2,379	3,256	95.8%	76.0%	Improvement Needed
Distribution Center C	Atlanta, GA	48.0%	2,523	3,494	97.5%	79.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	76.9%	1,885	2,948	98.0%	61.4%	Improvement Needed
Distribution Center E	Newark, NJ	71.9%	1,811	2,050	98.2%	94.8%	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