Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 73.1%
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	78.9%	2,562	3,410	99.0%	62.8%	Improvement Needed
Distribution Center B	Dallas, TX	72.4%	2,813	2,220	97.8%	90.8%	Optimized
Distribution Center C	Atlanta, GA	56.1%	1,807	3,121	96.1%	61.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	42.6%	2,879	1,558	97.3%	76.6%	Improvement Needed
Distribution Center E	Newark, NJ	58.4%	1,041	2,870	97.7%	73.9%	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