Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 78.9%
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	43.4%	2,433	3,948	98.4%	75.9%	Improvement Needed
Distribution Center B	Dallas, TX	62.0%	1,626	2,337	96.1%	63.4%	Improvement Needed
Distribution Center C	Atlanta, GA	63.6%	2,417	2,026	96.1%	89.2%	Optimized
Distribution Center D	Los Angeles, CA	80.3%	1,672	3,565	98.7%	93.0%	Optimized
Distribution Center E	Newark, NJ	92.7%	2,733	1,594	97.3%	73.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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