Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 55
Average Utilization: 79.6%
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	83.2%	2,478	2,697	96.6%	89.3%	Optimized
Distribution Center B	Dallas, TX	74.9%	2,368	3,522	99.1%	79.1%	Improvement Needed
Distribution Center C	Atlanta, GA	47.3%	1,232	2,924	95.0%	69.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	39.6%	2,375	1,823	99.3%	88.4%	Optimized
Distribution Center E	Newark, NJ	43.4%	1,308	3,266	99.5%	71.7%	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