Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 76.0%
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	47.7%	2,641	2,531	97.0%	69.1%	Improvement Needed
Distribution Center B	Dallas, TX	71.2%	2,585	2,152	99.5%	66.6%	Improvement Needed
Distribution Center C	Atlanta, GA	73.4%	2,263	2,916	95.0%	62.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.6%	1,396	1,851	96.8%	89.8%	Optimized
Distribution Center E	Newark, NJ	59.5%	2,354	3,770	99.2%	92.5%	Optimized

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