Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 69.7%
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	63.0%	1,779	3,812	95.8%	61.6%	Improvement Needed
Distribution Center B	Dallas, TX	98.3%	2,107	2,451	95.3%	67.8%	Improvement Needed
Distribution Center C	Atlanta, GA	79.6%	1,392	3,708	95.0%	63.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	114.8%	1,750	3,223	96.1%	74.9%	Improvement Needed
Distribution Center E	Newark, NJ	68.3%	2,194	2,233	97.1%	80.5%	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