Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 62
Average Utilization: 80.1%
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	95.7%	1,284	3,829	95.3%	83.5%	Optimized
Distribution Center B	Dallas, TX	47.3%	2,684	2,807	98.0%	92.4%	Optimized
Distribution Center C	Atlanta, GA	94.9%	1,192	3,957	96.8%	86.7%	Optimized
Distribution Center D	Los Angeles, CA	50.6%	2,402	3,816	98.8%	71.7%	Improvement Needed
Distribution Center E	Newark, NJ	54.3%	1,981	3,267	95.1%	65.9%	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