Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 32
Average Utilization: 78.7%
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	75.5%	1,825	2,686	97.8%	82.1%	Optimized
Distribution Center B	Dallas, TX	95.1%	1,432	1,727	95.6%	81.3%	Optimized
Distribution Center C	Atlanta, GA	46.1%	2,732	3,142	95.8%	85.9%	Optimized
Distribution Center D	Los Angeles, CA	41.6%	2,850	2,120	97.1%	69.0%	Improvement Needed
Distribution Center E	Newark, NJ	74.4%	1,978	2,716	96.7%	75.0%	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