Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 83.5%
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	82.9%	1,842	1,503	98.9%	94.2%	Optimized
Distribution Center B	Dallas, TX	73.7%	2,406	2,485	96.8%	60.9%	Improvement Needed
Distribution Center C	Atlanta, GA	37.3%	2,189	3,598	97.6%	93.4%	Optimized
Distribution Center D	Los Angeles, CA	99.7%	2,333	3,000	97.8%	86.0%	Optimized
Distribution Center E	Newark, NJ	68.7%	1,579	3,871	95.5%	82.8%	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