Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
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	57.3%	2,858	3,053	95.8%	93.9%	Optimized
Distribution Center B	Dallas, TX	44.9%	1,056	2,477	97.2%	83.6%	Optimized
Distribution Center C	Atlanta, GA	71.6%	1,943	3,978	96.6%	80.2%	Optimized
Distribution Center D	Los Angeles, CA	36.3%	2,830	2,058	99.1%	61.0%	Improvement Needed
Distribution Center E	Newark, NJ	37.2%	2,537	2,518	96.2%	81.9%	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