Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 56
Average Utilization: 86.9%
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	47.1%	1,978	3,901	99.4%	93.2%	Optimized
Distribution Center B	Dallas, TX	88.9%	1,347	2,651	96.3%	93.0%	Optimized
Distribution Center C	Atlanta, GA	68.7%	2,885	2,832	98.4%	65.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	32.1%	2,231	2,358	98.8%	93.2%	Optimized
Distribution Center E	Newark, NJ	61.0%	2,979	3,998	99.4%	89.8%	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