Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 72.3%
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	43.9%	2,487	3,086	95.4%	87.9%	Optimized
Distribution Center B	Dallas, TX	77.6%	2,473	2,002	96.2%	60.7%	Improvement Needed
Distribution Center C	Atlanta, GA	56.4%	2,618	3,298	95.7%	85.2%	Optimized
Distribution Center D	Los Angeles, CA	96.0%	2,614	3,932	98.2%	64.4%	Improvement Needed
Distribution Center E	Newark, NJ	86.1%	2,421	3,634	97.4%	63.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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