Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 84.3%
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	71.3%	2,751	2,537	97.2%	85.1%	Optimized
Distribution Center B	Dallas, TX	32.4%	2,239	3,091	96.4%	84.7%	Optimized
Distribution Center C	Atlanta, GA	55.9%	1,728	3,722	96.5%	93.1%	Optimized
Distribution Center D	Los Angeles, CA	110.7%	1,930	3,549	95.5%	67.0%	Improvement Needed
Distribution Center E	Newark, NJ	50.3%	2,531	3,783	96.8%	91.6%	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