Warehouse Automation Analytics

Performance metrics and automation optimization insights

Generated by: Vanguard Warehouse Controller

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Automation Overview

Total Warehouses: 5 Total Robots: 26

Average Utilization: 80.4% 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 Chicago, IL		2,138	1,556	95.1%	80.5%	Optimized
Center A Distribution Dallas, TX		1,033	2,061	99.1%	85.1%	Optimized
Center B Distribution Atlanta, GA Center C	44.5%	1,831	2,591	97.8%	67.9%	Improvemen t Needed
Distribution Los	98.7%	1,915	3,640	98.9%	85.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 100.4%	2,445	3,878	96.4%	82.5%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voicepicking

system to improve accuracy to 99.8%

- Upgra de WMS integration for real-time inventory visibility
- Add au tomated sortation system for small package handling
- Imple ment predictive analytics for demand-based staffing
- Consid er AS/RS system for highvelocity SKUs