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: 64

Average Utilization: 85.8% 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	n Status
Distribution Chicago, IL	40.2%	2,725	3,279	95.3%	94.2%	Optimized
Center A Distribution Dallas, TX Center B	37.2%	1,066	3,759	95.8%	62.6%	Improvemen t Needed
Distribution Atlanta, GA	59.8%	2,405	2,300	95.1%	92.1%	Optimized
Center C Distribution Los	83.9%	1,044	1,800	99.0%	89.6%	Optimized
Center E Angeles, CA Center E	^A 74.4%	1,564	1,629	99.2%	90.6%	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