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: 28

Average Utilization: 81.0% 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	71.4%	1,165	2,106	96.2%	91.9%	Optimized
Center A Distribution Dallas, TX Center B	56.4%	1,596	3,644	98.4%	74.7%	Improvemen t Needed
Distribution Atlanta, GA	54.8%	1,004	3,492	96.4%	86.2%	Optimized
Center C Distribution Los	64.9%	2,777	1,848	95.8%	89.0%	Optimized
Genter D Distribution Newark, NJ Center E	^A 60.2%	2,575	2,891	98.6%	63.3%	Improvemen t Needed

Optimiz ation O pportun ities

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

picking 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