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: 31

Average Utilization: 80.5% 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	46.2%	2,132	3,722	98.6%	89.4%	Optimized
Center A Distribution Dallas, TX Center B	85.5%	1,139	2,415	98.0%	74.2%	Improvemen t Needed
Distribution Atlanta, GA	81.9%	1,449	1,719	99.1%	87.2%	Optimized
Center C Distribution Los	47.5%	1,386	3,291	99.2%	80.0%	Optimized
Center E Angeles, Content E	⁴ 54.1%	2,745	1,526	99.2%	71.7%	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