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: 67

Average Utilization: 80.2% 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	71.0%	1,154	3,779	96.2%	86.2%	Optimized
Center A Distribution Dallas, TX Center B	89.4%	2,436	2,109	97.9%	68.5%	Improvemen t Needed
Distribution Atlanta, GA	90.1%	1,027	2,728	98.6%	92.5%	Optimized
Center C Distribution Los	71.8%	1,943	3,412	98.9%	93.7%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 40.2%	1,755	2,248	95.5%	60.0%	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