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: 51

Average Utilization: 78.5% 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 Center A	36.9%	1,150	1,513	96.8%	75.2%	Improvemen t Needed
Distribution Dallas, TX Center B	33.9%	2,790	3,568	95.4%	61.0%	Improvemen t Needed
Distribution Atlanta, GA	82.0%	1,769	2,517	96.8%	81.0%	Optimized
Center C Distribution Los	89.4%	1,895	3,413	98.6%	93.9%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 64.0%	1,037	1,713	99.5%	81.5%	Optimized

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