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: 76

Average Utilization: 79.2% 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		2,444	1,627	96.8%	85.7%	Optimized
Center A Distribution Dallas, TX	69.4%	1,721	3,724	97.6%	89.0%	Optimized
Center B Distribution Atlanta, GA Center C	116.9%	2,527	3,514	98.0%	67.9%	Improvemen t Needed
Distribution Los	45.0%	2,495	2,411	98.1%	93.1%	Optimized
Genter D Angeles, C Distribution Newark, N. Center E	^A 48.7%	2,822	3,417	95.3%	60.6%	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