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: 48

Average Utilization: 84.8% 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	Status
Distribution Chicago, IL	81.3%	2,985	3,655	95.0%	83.7%	Optimized
Center A Distribution Dallas, TX		2,227	2,724	99.4%	94.4%	Optimized
Center B Distribution Atlanta, GA Center C	72.7%	2,845	2,935	96.7%	73.7%	Improvemen t Needed
Distribution Los	61.9%	2,951	2,741	99.0%	92.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 34.2%	2,517	3,839	96.7%	79.8%	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