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: 33

Average Utilization: 79.3% 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		1,331	3,418	96.6%	88.1%	Optimized
Center A Distribution Dallas, TX Center B	67.9%	1,079	2,189	98.5%	72.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	87.9%	2,520	1,629	97.7%	70.6%	Improvemen t Needed
Distribution Los	90.7%	1,870	3,999	99.1%	83.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 83.3%	1,398	3,444	99.1%	81.7%	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