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: 59

Average Utilization: 81.6% 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		1,932	3,961	97.1%	89.2%	Optimized
Center A Distribution Dallas, TX Center B	56.7%	1,093	2,407	95.8%	78.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	80.7%	2,868	2,405	97.6%	69.3%	Improvemen t Needed
Distribution Los	49.7%	1,128	2,629	98.5%	82.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 41.6%	1,391	3,442	97.2%	88.8%	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