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: 34

Average Utilization: 83.8% 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		2,609	3,988	98.2%	86.3%	Optimized
Center A Distribution Dallas, TX Center B	54.7%	2,554	2,178	98.9%	70.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	40.6%	2,641	1,972	97.7%	79.4%	Improvemen t Needed
Distribution Los	99.8%	2,957	2,045	97.2%	88.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 49.4%	1,390	3,271	98.5%	93.6%	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