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: 43

Average Utilization: 82.0% 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	95.1%	1,269	2,623	95.7%	93.9%	Optimized
Center A Distribution Dallas, TX Center B	90.2%	2,564	2,707	95.1%	62.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	50.0%	2,705	2,522	97.3%	73.4%	Improvemen t Needed
Distribution Los	73.3%	1,621	3,889	97.9%	86.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 90.0%	1,829	2,358	98.8%	93.9%	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