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: 53

Average Utilization: 79.0% 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	n Status
Distribution Chicago, IL	94.8%	2,808	1,754	98.7%	86.4%	Optimized
Center A Distribution Dallas, TX Center B	74.9%	2,627	3,830	98.9%	75.9%	Improvemen t Needed
Distribution Atlanta, GA	60.2%	1,924	3,419	95.9%	80.9%	Optimized
Center C Distribution Los	64.8%	2,887	2,407	97.8%	80.8%	Optimized
Center E Angeles, Content E	⁴ 96.3%	2,775	2,267	98.8%	71.0%	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