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: 56

Average Utilization: 79.9% 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	57.1%	1,324	3,969	99.0%	83.4%	Optimized
Center A Distribution Dallas, TX		1,198	3,821	99.5%	80.3%	Optimized
Center B Distribution Atlanta, GA Center C	126.5%	2,846	3,172	95.2%	63.1%	Improvemen t Needed
	54.5%	2,524	3,536	97.8%	94.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	66.9%	1,157	3,849	96.6%	78.0%	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