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: 39

Average Utilization: 79.4% 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	50.4%	2,622	3,811	95.7%	81.0%	Optimized
Center A Distribution Dallas, TX Center B	69.0%	1,810	3,047	96.8%	67.8%	Improvemen t Needed
Distribution Atlanta, GA	92.4%	2,300	2,266	97.2%	85.4%	Optimized
Center C Distribution Los Center D Angeles, CA	71.1% \	2,755	1,520	98.2%	72.9%	Improvemen t Needed
Distribution Newark, NJ Center E	41.1%	1,838	2,634	96.5%	90.1%	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