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: 41

Average Utilization: 81.9% 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	78.5%	1,379	2,164	98.0%	92.1%	Optimized
Center A Distribution Dallas, TX Center B	108.7%	2,084	3,815	98.8%	69.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	73.8%	2,033	1,779	95.9%	71.4%	Improvemen t Needed
Distribution Los	36.9%	2,363	3,878	95.6%	85.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 53.4%	1,190	1,567	97.4%	90.9%	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