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: 52

Average Utilization: 78.5% 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	50.8%	2,350	2,337	97.2%	85.3%	Optimized
Center A Distribution Dallas, TX	60.6%	1,556	2,257	96.7%	87.2%	Optimized
Center B Distribution Atlanta, GA Center C	74.9%	2,900	2,585	97.2%	62.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	87.7% A	2,315	2,061	96.5%	72.6%	Improvemen t Needed
Distribution Newark, NJ Center E	54.4%	1,026	3,832	98.5%	84.9%	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