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: 49

Average Utilization: 80.9% 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		1,272	2,937	97.4%	94.9%	Optimized
Center A Distribution Dallas, TX		1,179	1,600	98.7%	81.1%	Optimized
Center B Distribution Atlanta, GA Center C	46.9%	1,115	2,551	95.6%	65.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	78.0% A	2,432	3,778	95.8%	73.9%	Improvemen t Needed
Distribution Newark, NJ Center E	44.9%	1,758	3,606	98.4%	89.1%	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