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: 80.6% 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	72.2%	1,539	1,856	96.6%	91.1%	Optimized
Center A Distribution Dallas, TX		2,008	2,104	99.3%	82.1%	Optimized
Center B Distribution Atlanta, GA Center C	98.4%	2,738	1,833	99.3%	63.1%	Improvemen t Needed
Distribution Los	89.4%	1,400	2,894	99.3%	91.3%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	61.4%	2,706	3,323	97.2%	75.2%	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