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: 36

Average Utilization: 85.3% 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		1,899	3,058	96.9%	94.3%	Optimized
Center A Distribution Dallas, TX Center B	78.9%	1,346	3,185	96.4%	77.5%	Improvemen t Needed
Distribution Atlanta, GA	34.4%	2,841	1,742	97.6%	93.4%	Optimized
Center C Distribution Los Center D Angeles, CA	54.1% \	2,986	2,208	95.5%	76.0%	Improvemen t Needed
Distribution Newark, NJ Center E	92.5%	2,562	2,750	98.1%	85.5%	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