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: 47

Average Utilization: 84.1% 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	54.3%	1,706	3,305	98.8%	86.4%	Optimized
Center A Distribution Dallas, TX		2,266	2,669	98.6%	93.7%	Optimized
Center B Distribution Atlanta, GA	48.2%	2,189	2,477	96.2%	83.3%	Optimized
Center C Distribution Los Center D Angeles, CA	59.9% \	1,709	3,800	95.9%	77.4%	Improvemen t Needed
Distribution Newark, NJ Center E	45.3%	2,955	2,735	96.0%	79.8%	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