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: 79.7% 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		1,766	2,863	95.9%	83.4%	Optimized
Center A Distribution Dallas, TX		1,762	2,543	97.9%	90.8%	Optimized
Center B Distribution Atlanta, GA Center C	95.1%	2,961	3,907	97.7%	61.9%	Improvemen t Needed
Distribution Los	54.8%	2,188	2,637	96.1%	93.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	42.5%	1,063	3,670	97.3%	69.2%	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