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: 55

Average Utilization: 81.3% 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		2,707	2,534	98.3%	86.3%	Optimized
Center A Distribution Dallas, TX		1,770	3,343	98.2%	91.8%	Optimized
Center B Distribution Atlanta, GA Center C	56.0%	1,368	2,002	99.0%	75.9%	Improvemen t Needed
Distribution Los	33.6%	2,870	3,328	95.5%	81.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	72.7%	2,566	1,846	99.1%	71.2%	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