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: 33

Average Utilization: 78.7% 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	n Status
Distribution Chicago, IL Center A	76.5%	1,524	1,739	98.3%	70.2%	Improvemen t Needed
Distribution Dallas, TX	58.0%	2,985	2,003	96.4%	82.7%	Optimized
Center B Distribution Atlanta, GA Center C	54.2%	1,769	2,256	98.6%	65.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	41.8%	2,267	3,949	95.3%	94.0%	Optimized
	⁴ 68.1%	2,131	3,873	95.6%	81.0%	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