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: 74

Average Utilization: 82.8% 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	90.7%	1,924	3,413	97.3%	70.2%	Improvemen t Needed
Distribution Dallas, TX	39.8%	2,933	1,849	95.6%	89.7%	Optimized
Center B Distribution Atlanta, GA Center C	56.1%	1,956	2,393	96.4%	70.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	69.7%	2,182	2,363	96.1%	89.4%	Optimized
	¹ 103.8%	2,444	3,208	95.8%	94.0%	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