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: 41

Average Utilization: 77.0% 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	89.1%	2,488	2,175	98.9%	67.4%	Improvemen t Needed
Distribution Dallas, TX	41.0%	2,259	3,071	95.3%	83.4%	Optimized
Center B Distribution Atlanta, GA Center C	72.1%	1,594	2,032	97.0%	62.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	69.0%	2,367	1,537	99.2%	84.4%	Optimized
	⁴ 57.5%	2,989	3,292	95.6%	87.1%	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