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: 39

Average Utilization: 82.1% 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	48.3%	1,229	3,318	95.6%	61.0%	Improvemen t Needed
Distribution Dallas, TX	98.3%	1,129	3,202	97.8%	92.3%	Optimized
Center B Distribution Atlanta, GA Center C	60.2%	1,263	1,717	98.7%	73.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	40.3%	1,023	2,144	96.8%	94.4%	Optimized
	⁴ 57.0%	2,728	3,964	95.6%	89.6%	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