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: 52

Average Utilization: 73.4% 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	85.8%	1,266	3,773	98.8%	72.7%	Improvemen t Needed
Distribution Dallas, TX Center B	64.9%	2,856	2,171	97.1%	66.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	64.1%	2,351	1,923	97.1%	64.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	67.5%	1,068	1,568	96.5%	80.2%	Optimized
	^A 32.9%	1,472	3,574	96.9%	83.8%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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