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: 55

Average Utilization: 76.0% 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	55.9%	2,017	2,557	97.4%	62.7%	Improvemen t Needed
Distribution Dallas, TX Center B	64.4%	1,139	1,849	97.4%	60.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	49.3%	1,789	1,589	98.0%	79.2%	Improvemen t Needed
Distribution Los Center D Distribution Newark, NJ Center E	55.9%	2,771	2,597	98.9%	93.0%	Optimized
	^A 60.1%	2,136	1,575	99.4%	84.6%	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