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: 25

Average Utilization: 83.1% 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	91.2%	1,479	2,119	97.9%	91.0%	Optimized
Center A Distribution Dallas, TX Center B	73.4%	1,123	3,949	98.2%	70.3%	Improvemen t Needed
Distribution Atlanta, GA	67.4%	1,119	3,032	96.8%	92.0%	Optimized
Center C Distribution Los	81.5%	1,003	2,577	96.6%	82.1%	Optimized
Genter D Distribution Newark, NJ Center E	^A 50.3%	2,096	1,778	96.1%	80.1%	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