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: 33

Average Utilization: 82.3% 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	71.2%	1,976	1,670	99.2%	61.9%	Improvemen t Needed
Distribution Dallas, TX	109.7%	1,891	2,092	97.8%	84.4%	Optimized
Center B Distribution Atlanta, GA	52.3%	1,745	2,314	95.4%	90.4%	Optimized
Center C Distribution Los	48.5%	1,469	3,262	97.8%	88.3%	Optimized
Genter D Distribution Newark, NJ Center E	^A 124.0%	2,415	1,901	96.0%	86.7%	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