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: 43

Average Utilization: 86.9% 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	64.0%	1,103	3,886	96.1%	72.9%	Improvemen t Needed
Distribution Dallas, TX	41.0%	2,987	1,873	96.2%	89.7%	Optimized
Center B Distribution Atlanta, GA	61.2%	2,097	3,004	97.0%	94.7%	Optimized
Center C Distribution Los	55.9%	1,925	2,243	98.1%	89.1%	Optimized
Genter D Distribution Newark, NJ Center E	^A 41.7%	2,521	1,725	96.7%	88.0%	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