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: 30

Average Utilization: 83.2% 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		1,544	3,155	97.1%	95.0%	Optimized
Center A Distribution Dallas, TX Center B	93.5%	2,046	3,617	96.9%	71.0%	Improvemen t Needed
Distribution Atlanta, GA	122.1%	1,716	2,648	95.8%	86.7%	Optimized
Center C Distribution Los	68.0%	1,101	3,538	96.5%	80.3%	Optimized
Center D Angeles, CA Center E	^A 91.3%	1,510	1,746	97.0%	83.3%	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