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 Center A	89.1%	2,417	2,516	98.4%	76.9%	Improvemen t Needed
Distribution Dallas, TX	50.9%	2,260	3,539	97.5%	80.7%	Optimized
Center B Distribution Atlanta, GA	52.9%	1,075	1,949	98.4%	89.7%	Optimized
Center C Distribution Los	68.9%	2,271	2,908	95.5%	86.7%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 64.6%	2,314	2,523	97.0%	82.0%	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