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: 50

Average Utilization: 87.9% 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	113.8%	1,378	3,447	98.2%	90.8%	Optimized
Center A Distribution Dallas, TX		1,862	2,661	97.2%	91.1%	Optimized
Center B Distribution Atlanta, GA	41.4%	1,802	1,790	98.7%	85.6%	Optimized
Center C Distribution Los	56.4%	2,404	2,907	98.7%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 57.5%	2,554	2,455	99.3%	77.4%	Improvemen t Needed

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