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: 19

Average Utilization: 85.4% 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	78.6%	2,667	2,594	95.4%	83.0%	Optimized
Center A Distribution Dallas, TX	77.2%	1,563	2,211	97.9%	90.8%	Optimized
Center B Distribution Atlanta, GA	83.6%	1,842	3,801	97.6%	89.6%	Optimized
Center C Distribution Los	56.1%	1,573	2,905	95.9%	90.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 63.1%	1,438	3,705	97.6%	73.2%	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