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: 40

Average Utilization: 83.9% 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	101.2%	1,760	2,285	96.7%	84.8%	Optimized
Center A Distribution Dallas, TX	49.5%	2,800	2,162	95.3%	93.2%	Optimized
Center B Distribution Atlanta, GA	49.5%	1,438	1,501	98.6%	83.3%	Optimized
Center C Distribution Los	106.1%	2,176	2,854	98.1%	82.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 116.0%	1,647	2,560	95.2%	76.0%	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