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: 44

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	45.6%	1,793	3,961	95.1%	90.1%	Optimized
Center A Distribution Dallas, TX		2,547	2,546	98.0%	91.1%	Optimized
Center B Distribution Atlanta, GA	55.6%	2,500	2,045	97.4%	87.8%	Optimized
Center C Distribution Los	119.1%	2,752	2,400	96.8%	94.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 65.5%	2,746	3,372	96.0%	76.5%	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