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: 47

Average Utilization: 76.7% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

Warehouse Performance

Warehouse Location	Capacity Used	1 ,		Automation Status Level		
Distribution Chicago, IL	71.0%	1,200	1,982	96.5%	87.1%	Optimized
Center A Distribution Dallas, TX Center B	57.5%	1,812	2,102	96.2%	74.3%	Improvemen t Needed
Distribution Atlanta, GA	69.5%	2,500	2,887	96.4%	83.4%	Optimized
Center C Distribution Los Center D Angeles, CA	53.7% \	1,053	2,692	95.5%	63.6%	Improvemen t Needed
Distribution Newark, NJ Center E	85.4%	2,073	3,175	96.3%	74.9%	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