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: 58

Average Utilization: 76.4% 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	Status
Distribution Chicago, IL	70.6%	1,352	2,395	96.2%	89.4%	Optimized
Center A Distribution Dallas, TX Center B	85.8%	1,146	2,152	96.8%	63.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	53.5%	1,242	3,305	97.5%	70.7%	Improvemen t Needed
Distribution Los	80.8%	1,575	1,505	95.8%	82.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 110.5%	1,196	2,462	98.3%	76.7%	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