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: 38

Average Utilization: 78.2% 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 Center A	82.0%	2,621	3,520	98.8%	63.4%	Improvemen t Needed
Distribution Dallas, TX	35.7%	2,670	2,537	96.3%	92.7%	Optimized
Center B Distribution Atlanta, GA Center C	68.5%	1,813	2,966	96.2%	65.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	61.8%	1,989	3,548	95.0%	90.8%	Optimized
	¹ 57.1%	1,106	2,294	98.9%	78.3%	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