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: 34

Average Utilization: 79.1% 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 Center A	49.3%	1,192	2,027	98.8%	70.2%	Improvemen t Needed
Distribution Dallas, TX	87.8%	2,999	3,959	99.1%	85.7%	Optimized
Center B Distribution Atlanta, GA Center C	123.0%	2,105	3,411	95.3%	65.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	97.7%	1,297	1,850	96.0%	94.6%	Optimized
	¹ 57.1%	1,539	2,047	98.4%	79.4%	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