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: 48

Average Utilization: 78.5% 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	63.4%	2,791	3,848	96.6%	69.9%	Improvemen t Needed
Distribution Dallas, TX	75.7%	1,632	3,627	98.1%	93.9%	Optimized
Center B Distribution Atlanta, GA Center C	58.2%	1,504	3,184	95.1%	72.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	56.1%	1,724	3,757	95.7%	81.3%	Optimized
	⁴ 40.2%	2,997	2,304	96.4%	75.3%	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