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: 51

Average Utilization: 74.3% 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	81.6%	1,786	2,444	97.5%	78.0%	Improvemen t Needed
Distribution Dallas, TX Center B	46.9%	2,350	3,383	97.2%	60.7%	Improvemen t Needed
Distribution Atlanta, GA	35.8%	1,594	1,890	96.6%	86.2%	Optimized
Center C Distribution Los Center D Angeles, CA	43.4% \	2,411	2,879	99.4%	60.1%	Improvemen t Needed
Distribution Newark, NJ Center E	47.2%	2,667	1,581	95.8%	86.4%	Optimized

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