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: 39

Average Utilization: 85.4% 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	n Status
Distribution Chicago, IL	70.3%	2,517	2,590	96.4%	89.1%	Optimized
Center A Distribution Dallas, TX		2,678	2,120	95.6%	83.6%	Optimized
Center B Distribution Atlanta, GA	79.4%	2,518	2,787	96.8%	80.9%	Optimized
Center C Distribution Los	101.4%	2,969	1,699	95.8%	94.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 89.1%	2,729	2,367	97.8%	78.6%	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