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: 56

Average Utilization: 78.3% 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	n Status
Distribution Chicago, IL Center A	44.5%	1,798	2,576	95.6%	71.8%	Improvemen t Needed
Distribution Dallas, TX Center B	43.2%	1,442	1,894	95.7%	63.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	78.6%	2,635	2,765	95.7%	79.4%	Improvemen t Needed
Distribution Los	87.1%	2,383	1,898	96.2%	94.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 41.6%	2,793	3,231	96.3%	82.2%	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