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: 31

Average Utilization: 82.2% 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	109.5%	2,060	2,786	98.4%	71.6%	Improvemen t Needed
Distribution Dallas, TX Center B	98.5%	1,488	3,918	96.9%	79.8%	Improvemen t Needed
Distribution Atlanta, GA	55.7%	1,962	3,867	96.7%	93.5%	Optimized
Center C Distribution Los	79.4%	2,628	1,674	99.0%	90.3%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 57.8%	2,939	2,640	98.2%	76.0%	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