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: 38

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	n Status
Distribution Chicago, IL Center A	112.4%	2,770	3,025	95.3%	72.5%	Improvemen t Needed
Distribution Dallas, TX Center B	36.7%	1,459	2,288	95.7%	62.8%	Improvemen t Needed
Distribution Atlanta, GA	81.0%	1,239	1,529	98.8%	89.9%	Optimized
Center C Distribution Los	64.2%	2,217	3,794	95.4%	90.8%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^{\\} 51.0%	2,836	3,878	96.8%	76.7%	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