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: 48

Average Utilization: 75.1% 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	85.9%	1,722	3,788	96.1%	60.0%	Improvemen t Needed
Distribution Dallas, TX Center B	55.9%	2,740	3,290	99.1%	72.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	64.8%	2,358	2,780	99.2%	69.4%	Improvemen t Needed
Distribution Los	91.4%	2,118	3,236	98.7%	83.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.0%	1,713	3,931	97.0%	90.5%	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