# **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: 43

Average Utilization: 84.5% 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	Status
Distribution Chicago, IL		1,830	2,416	99.3%	92.4%	Optimized
Center A Distribution Dallas, TX		2,415	2,864	97.1%	80.7%	Optimized
Center B Distribution Atlanta, GA Center C	68.7%	1,104	2,483	96.4%	72.1%	Improvemen t Needed
Distribution Los	60.1%	2,945	2,696	99.2%	84.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 42.7%	1,575	1,752	95.8%	92.5%	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