# **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: 39

Average Utilization: 78.4% 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	68.6%	1,193	1,893	95.4%	65.1%	Improvemen t Needed
Distribution Dallas, TX Center B	70.8%	2,733	1,685	98.2%	75.0%	Improvemen t Needed
Distribution Atlanta, GA	52.2%	2,851	2,471	98.4%	91.1%	Optimized
Center C Distribution Los	69.5%	1,598	2,860	95.2%	94.8%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	<sup>4</sup> 55.9%	1,485	3,906	95.8%	65.8%	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