# **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: 72.2% 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	Status
Distribution Chicago, IL	79.6%	2,581	1,566	97.4%	80.6%	Optimized
Center A Distribution Dallas, TX Center B	33.6%	2,911	3,549	95.4%	64.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	42.3%	1,148	2,602	95.8%	64.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	36.0% \	1,946	3,053	97.4%	61.5%	Improvemen t Needed
Distribution Newark, NJ Center E	68.2%	1,528	3,925	97.2%	89.4%	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