## **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: 61

Average Utilization: 79.0% 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	65.2%	1,432	2,056	98.4%	91.5%	Optimized
Center A Distribution Dallas, TX Center B	60.6%	1,045	2,450	98.9%	68.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	108.0%	1,976	2,067	95.8%	71.6%	Improvemen t Needed
Distribution Los Center D Angeles, CA	58.2% \	1,561	2,768	95.6%	79.1%	Improvemen t Needed
Distribution Newark, NJ Center E	32.0%	1,227	3,964	98.5%	84.2%	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