# **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: 40

Average Utilization: 86.6% Throughput Increase: 34.2% Labor Cost Reduction: 28.5%

ROI Period: 2.3 years

## **Warehouse Performance**

Capacity Used	Inbound/ Day	Outbound/ Day	Picking Accuracy	Automatio Level	n Status
47.4%	2,424	3,945	95.0%	81.0%	Optimized
33.0%	1,083	3,862	97.6%	91.0%	Optimized
63.9%	2,910	3,219	96.4%	92.6%	Optimized
56.3%	1,562	1,810	98.5%	85.7%	Optimized
<sup>A</sup> 74.0%	1,531	1,615	96.0%	82.8%	Optimized
	Used 47.4% 33.0% 63.9%	Used     Day       47.4%     2,424       33.0%     1,083       63.9%     2,910       56.3%     1,562	Used       Day       Day         47.4%       2,424       3,945         33.0%       1,083       3,862         63.9%       2,910       3,219         56.3%       1,562       1,810	Used 47.4%         Day 2,424         Day 3,945         Accuracy 95.0%           33.0%         1,083         3,862         97.6%           63.9%         2,910         3,219         96.4%           56.3%         1,562         1,810         98.5%	Used         Day         Day         Accuracy         Level           47.4%         2,424         3,945         95.0%         81.0%           33.0%         1,083         3,862         97.6%         91.0%           63.9%         2,910         3,219         96.4%         92.6%           56.3%         1,562         1,810         98.5%         85.7%

# 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