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: 59

Average Utilization: 82.1% 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	59.6%	1,678	2,983	97.9%	94.5%	Optimized
Center A Distribution Dallas, TX Center B	56.0%	1,110	1,925	97.6%	69.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	82.6%	1,450	1,721	96.4%	65.9%	Improvemen t Needed
Distribution Los	63.4%	1,163	2,696	95.3%	93.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 59.2%	2,817	2,182	97.0%	87.9%	Optimized

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple
ment voice-

picking 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