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: 43

Average Utilization: 81.6% 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	62.6%	1,302	3,447	98.8%	68.6%	Improvemen t Needed
,	71.4%	1,067	2,491	97.4%	82.2%	Optimized
Center B Distribution Atlanta, GA Center C	67.2%	2,651	3,660	99.0%	75.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	55.6%	2,953	1,996	97.6%	93.0%	Optimized
	⁴ 57.2%	2,641	3,972	95.9%	88.6%	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