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: 29

Average Utilization: 77.3% 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	70.5%	2,960	3,085	95.4%	63.7%	Improvemen t Needed
Distribution Dallas, TX	59.0%	2,682	1,848	98.6%	84.8%	Optimized
Center B Distribution Atlanta, GA Center C	57.3%	2,641	3,008	96.7%	61.3%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	78.5%	2,965	3,962	97.5%	82.1%	Optimized
	⁴ 69.8%	2,788	3,464	98.4%	94.7%	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