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: 54

Average Utilization: 81.8% 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	78.8%	1,054	3,870	95.3%	74.5%	Improvemen t Needed
Distribution Dallas, TX	95.6%	2,892	1,666	97.9%	94.3%	Optimized
Center B Distribution Atlanta, GA Center C	44.5%	1,141	2,315	97.6%	69.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	70.4%	1,546	3,064	99.0%	86.9%	Optimized
	⁴ 50.4%	2,679	2,645	95.4%	83.5%	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