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: 33

Average Utilization: 80.8% 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	78.3%	1,166	3,138	97.8%	62.6%	Improvemen t Needed
Distribution Dallas, TX	70.8%	1,031	2,746	96.7%	93.5%	Optimized
Center B Distribution Atlanta, GA Center C	116.2%	2,127	2,991	95.4%	67.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	61.6%	1,022	2,400	96.0%	88.3%	Optimized
	⁴ 37.9%	1,472	2,205	96.2%	92.0%	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