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: 26

Average Utilization: 84.1% 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	Status
Distribution Chicago, IL	45.6%	2,100	2,466	98.2%	94.7%	Optimized
Center A Distribution Dallas, TX		2,622	3,692	96.8%	92.5%	Optimized
Center B Distribution Atlanta, GA Center C	68.9%	1,110	1,986	97.5%	76.6%	Improvemen t Needed
Distribution Los	105.3%	2,562	1,684	97.2%	81.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 85.1%	1,412	2,367	95.5%	74.6%	Improvemen t Needed

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