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: 62

Average Utilization: 83.2% 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 Status Level	
Distribution Chicago, IL	64.2%	2,106	3,485	97.1%	85.0%	Optimized
Center A Distribution Dallas, TX Center B	110.4%	2,976	3,294	97.2%	74.8%	Improvemen t Needed
Distribution Atlanta, GA	33.9%	2,956	3,064	97.0%	89.8%	Optimized
Center C Distribution Los Center D Angeles, CA	64.5% \	2,414	2,237	95.8%	73.8%	Improvemen t Needed
Distribution Newark, NJ Center E	96.1%	2,915	3,186	95.1%	92.8%	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