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: 49

Average Utilization: 78.9% 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	80.7%	1,130	1,615	98.1%	87.4%	Optimized
Center A Distribution Dallas, TX		2,053	2,592	99.5%	92.3%	Optimized
Center B Distribution Atlanta, GA	62.6%	1,547	3,490	97.2%	81.7%	Optimized
Center C Distribution Los Center D Angeles, CA	90.1%	1,882	3,297	98.6%	63.0%	Improvemen t Needed
Distribution Newark, NJ Center E	45.3%	1,545	3,746	96.9%	70.0%	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