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: 39

Average Utilization: 78.7% 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
0 /	63.1%	2,035	2,094	97.8%	93.5%	Optimized
Center A Distribution Dallas, TX Center B	71.4%	1,248	3,396	97.6%	74.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	60.8%	2,972	3,277	97.6%	76.2%	Improvemen t Needed
Distribution Los	48.0%	1,454	1,737	98.5%	83.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	104.4%	1,888	3,706	96.9%	66.4%	Improvemen t Needed

Optimiz ation O pportun ities

Deploy 5
additional
AGVs in
Warehouse
3 to
increase
throughput
by 20%
• Imple

ment voicepicking 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