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: 45

Average Utilization: 82.1% 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		2,776	1,868	95.4%	91.2%	Optimized
Center A Distribution Dallas, TX Center B	33.5%	1,758	2,660	96.9%	76.5%	Improvemen t Needed
Distribution Atlanta, GA	89.3%	1,046	3,755	99.1%	88.1%	Optimized
Center C Distribution Los Center D Angeles, CA	85.8% A	1,378	1,909	95.8%	79.7%	Improvemen t Needed
Distribution Newark, NJ Center E	67.4%	1,473	3,771	98.3%	74.9%	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