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: 32

Average Utilization: 73.7% 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	n Status
Distribution Chicago, IL Center A	87.1%	1,727	3,204	95.1%	72.5%	Improvemen t Needed
Distribution Dallas, TX Center B	76.0%	1,160	3,279	99.2%	68.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	86.2%	2,341	2,113	96.5%	61.9%	Improvemen t Needed
Distribution Los	97.8%	1,591	3,568	97.1%	80.7%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 70.5%	1,606	3,856	99.1%	85.5%	Optimized

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