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: 47

Average Utilization: 79.0% 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 Center A	49.6%	1,045	2,735	99.5%	79.8%	Improvemen t Needed
Distribution Dallas, TX Center B	81.6%	2,054	3,340	97.9%	64.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	54.5%	2,944	2,767	99.4%	74.1%	Improvemen t Needed
Distribution Los	53.6%	1,481	1,780	95.2%	86.2%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 76.6%	1,126	3,618	97.7%	90.7%	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