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: 43

Average Utilization: 76.6% 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	40.3%	2,018	2,355	97.1%	74.5%	Improvemen t Needed
Distribution Dallas, TX	60.7%	2,402	2,732	95.1%	88.7%	Optimized
Center B Distribution Atlanta, GA Center C	88.3%	2,339	3,145	98.9%	62.5%	Improvemen t Needed
Distribution Los	46.7%	2,762	1,892	97.4%	80.4%	Optimized
Center D Angeles, CA Newark, NJ Center E	72.5%	2,525	1,504	97.3%	76.8%	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