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: 50

Average Utilization: 76.2% 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	80.7%	2,057	2,978	97.1%	81.8%	Optimized
Center A Distribution Dallas, TX	46.1%	1,864	1,844	95.2%	85.1%	Optimized
Center B Distribution Atlanta, GA Center C	101.6%	1,812	1,921	96.4%	79.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	55.7% A	1,743	3,721	96.7%	60.5%	Improvemen t Needed
Distribution Newark, NJ Center E	65.9%	1,879	3,114	97.9%	74.5%	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