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: 48

Average Utilization: 86.7% 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	Status
Distribution Chicago, IL		1,310	3,270	96.7%	94.7%	Optimized
Center A Distribution Dallas, TX		1,743	1,764	95.9%	94.0%	Optimized
Center B Distribution Atlanta, GA	124.6%	1,528	3,354	95.8%	94.8%	Optimized
Center C Distribution Los Center D Angeles, CA	85.9% A	2,418	2,340	97.8%	60.1%	Improvemen t Needed
Distribution Newark, NJ Center E	75.9%	1,702	1,592	99.1%	90.0%	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