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: 49

Average Utilization: 80.5% 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		1,114	3,397	98.0%	82.8%	Optimized
Center A Distribution Dallas, TX		1,914	3,260	95.9%	86.6%	Optimized
Center B Distribution Atlanta, GA Center C	85.9%	1,767	1,819	97.1%	65.4%	Improvemen t Needed
Distribution Los	75.4%	2,468	3,549	97.0%	83.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 73.5%	2,259	3,600	95.2%	84.9%	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