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: 32

Average Utilization: 86.0% 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	n Status
Distribution Chicago, IL		2,371	2,588	96.6%	91.7%	Optimized
Center A Distribution Dallas, TX		2,309	3,966	95.3%	94.1%	Optimized
Center B Distribution Atlanta, GA Center C	35.0%	2,282	2,211	98.6%	74.9%	Improvemen t Needed
Distribution Los	58.0%	1,268	3,794	96.0%	85.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 56.5%	2,977	2,982	99.2%	83.5%	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