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: 30

Average Utilization: 83.5% 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 Center A	48.3%	1,157	2,120	96.1%	76.3%	Improvemen t Needed
Distribution Dallas, TX		1,488	1,904	97.6%	93.8%	Optimized
Center B Distribution Atlanta, GA	43.4%	1,074	3,133	96.8%	84.2%	Optimized
Center C Distribution Los	52.8%	1,182	3,282	97.1%	81.1%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	^A 69.6%	1,909	1,666	96.1%	81.8%	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