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: 78.7% 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	n Status
Distribution Chicago, IL Center A	78.1%	2,157	3,263	96.0%	78.5%	Improvemen t Needed
Distribution Dallas, TX Center B	38.5%	2,273	3,461	98.9%	72.3%	Improvemen t Needed
Distribution Atlanta, GA Center C	63.0%	1,114	3,712	97.2%	68.0%	Improvemen t Needed
Distribution Los	93.0%	2,873	3,787	97.6%	86.2%	Optimized
Genter D Distribution Newark, NJ Center E	⁴ 41.2%	2,670	2,547	99.2%	88.5%	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