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: 54

Average Utilization: 80.6% 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	45.4%	2,767	2,091	99.1%	66.1%	Improvemen t Needed
Distribution Dallas, TX Center B	62.9%	2,182	2,627	96.7%	73.2%	Improvemen t Needed
Distribution Atlanta, GA Center C	86.5%	1,003	3,928	97.2%	78.2%	Improvemen t Needed
Distribution Los	113.7%	2,336	2,069	98.2%	91.8%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 51.8%	2,887	1,766	98.7%	93.7%	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