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: 56

Average Utilization: 76.1% 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	87.5%	1,476	3,925	96.7%	73.7%	Improvemen t Needed
Distribution Dallas, TX	36.6%	1,311	2,091	96.0%	80.7%	Optimized
Center B Distribution Atlanta, GA Center C	86.3%	2,876	2,601	96.4%	67.9%	Improvemen t Needed
Distribution Los Center D Angeles, CA	89.6% \	2,847	3,895	99.2%	68.4%	Improvemen t Needed
Distribution Newark, NJ Center E	66.3%	1,086	3,552	95.5%	89.7%	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