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: 29

Average Utilization: 76.5% 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	61.7%	2,219	2,267	96.4%	78.6%	Improvemen t Needed
Distribution Dallas, TX Center B	40.8%	1,928	3,530	98.2%	72.7%	Improvemen t Needed
Distribution Atlanta, GA	72.0%	1,628	2,995	97.7%	80.8%	Optimized
Center C Distribution Los Center D Angeles, CA	61.2% A	1,457	2,860	96.8%	64.3%	Improvemen t Needed
Distribution Newark, NJ Center E	47.6%	2,189	1,906	98.6%	86.4%	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