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: 41

Average Utilization: 82.5% 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	Status
Distribution Chicago, IL		1,231	2,991	96.7%	90.9%	Optimized
Center A Distribution Dallas, TX	68.6%	1,364	1,640	95.4%	89.9%	Optimized
Center B Distribution Atlanta, GA	85.7%	2,713	2,101	97.4%	83.6%	Optimized
Center C Distribution Los Center D Angeles, CA	130.5% A	1,938	3,638	98.5%	63.3%	Improvemen t Needed
Distribution Newark, NJ Center E	57.1%	1,109	2,390	98.6%	84.6%	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