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: 57

Average Utilization: 81.6% 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	Status
Distribution Chicago, IL	52.3%	1,827	2,371	96.6%	86.1%	Optimized
Center A Distribution Dallas, TX		2,969	3,693	97.4%	82.4%	Optimized
Center B Distribution Atlanta, GA	116.7%	1,327	1,957	98.0%	88.2%	Optimized
Center C Distribution Los Center D Angeles, CA	42.5% \	1,113	1,883	98.5%	71.0%	Improvemen t Needed
Distribution Newark, NJ Center E	50.1%	2,568	1,583	99.5%	80.5%	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