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: 33

Average Utilization: 82.4% 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	86.8%	2,265	2,990	99.3%	84.4%	Optimized
Center A Distribution Dallas, TX		2,365	3,303	95.5%	80.2%	Optimized
Center B Distribution Atlanta, GA Center C	45.3%	2,776	1,563	95.1%	62.6%	Improvemen t Needed
Distribution Los	41.0%	2,907	1,999	95.4%	92.4%	Optimized
Center D Angeles, CA Center F	101.9%	2,906	2,643	95.8%	92.5%	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