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: 81.5% 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		1,314	1,607	98.0%	89.2%	Optimized
Center A Distribution Dallas, TX		1,317	2,393	99.2%	89.2%	Optimized
Center B Distribution Atlanta, GA Center C	55.5%	2,064	3,792	95.9%	71.1%	Improvemen t Needed
Distribution Los Center D Angeles, CA	65.9% \	2,116	2,067	97.8%	79.8%	Improvemen t Needed
Distribution Newark, NJ Center E	87.5%	1,029	3,452	97.1%	78.5%	Improvemen t Needed

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