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: 52

Average Utilization: 77.3% 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		1,455	1,987	95.1%	82.3%	Optimized
Center A Distribution Dallas, TX		2,185	2,761	97.0%	80.6%	Optimized
Center B Distribution Atlanta, GA Center C	60.1%	2,700	3,350	99.1%	73.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	46.7% A	1,648	2,267	95.7%	70.8%	Improvemen t Needed
Distribution Newark, NJ Center E	72.3%	1,518	2,287	97.8%	79.5%	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