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: 79.5% 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	77.2%	1,450	3,175	96.2%	92.2%	Optimized
Center A Distribution Dallas, TX Center B	64.3%	1,708	3,039	96.7%	69.4%	Improvemen t Needed
Distribution Atlanta, GA Center C	74.7%	1,745	3,982	99.4%	79.8%	Improvemen t Needed
Distribution Los	63.0%	2,644	2,544	98.9%	80.4%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 94.6%	1,669	2,779	95.4%	75.8%	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