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: 45

Average Utilization: 80.1% 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	73.1%	1,455	2,689	96.1%	94.7%	Optimized
Center A Distribution Dallas, TX Center B	70.7%	1,621	3,646	95.8%	78.8%	Improvemen t Needed
Distribution Atlanta, GA	91.1%	2,831	1,952	99.5%	92.8%	Optimized
Center C Distribution Los Center D Angeles, CA	61.4%	1,077	3,351	96.8%	66.9%	Improvemen t Needed
Distribution Newark, NJ Center E	79.8%	1,434	3,386	98.2%	67.4%	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