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: 43

Average Utilization: 83.8% 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	n Status
Distribution Chicago, IL Center A	42.7%	2,980	3,391	98.5%	67.1%	Improvemen t Needed
Distribution Dallas, TX	82.4%	1,170	2,727	97.0%	87.4%	Optimized
Center B Distribution Atlanta, GA	74.9%	1,864	1,842	95.9%	94.0%	Optimized
Center C Distribution Los	91.8%	1,563	1,668	98.5%	89.5%	Optimized
Center D Angeles, C Distribution Newark, NJ Center E	⁴ 96.1%	2,350	2,463	97.1%	80.7%	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