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: 28

Average Utilization: 76.3% 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	71.5%	1,728	3,582	98.7%	91.9%	Optimized
Center A Distribution Dallas, TX Center B	44.0%	2,659	2,306	95.7%	60.1%	Improvemen t Needed
Distribution Atlanta, GA Center C	79.6%	2,795	1,671	97.4%	78.9%	Improvemen t Needed
Distribution Los	78.4%	2,995	3,241	95.0%	82.1%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 56.8%	1,486	3,513	95.7%	68.4%	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