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: 53

Average Utilization: 75.1% 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		2,130	3,336	99.5%	86.3%	Optimized
Center A Distribution Dallas, TX		2,597	1,956	96.9%	82.4%	Optimized
Center B Distribution Atlanta, GA Center C	78.9%	2,604	2,876	98.5%	76.2%	Improvemen t Needed
Distribution Los Center D Angeles, CA	89.5% \	2,325	1,750	97.9%	63.3%	Improvemen t Needed
Distribution Newark, NJ Center E	94.5%	1,882	3,995	97.5%	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