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: 54

Average Utilization: 77.8% 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	Status
Distribution Chicago, IL		1,879	2,634	99.1%	84.3%	Optimized
Center A Distribution Dallas, TX		1,159	3,955	97.4%	87.1%	Optimized
Center B Distribution Atlanta, GA Center C	73.3%	1,888	2,762	97.1%	66.7%	Improvemen t Needed
Distribution Los Center D Angeles, CA	70.6% \	2,419	2,459	96.4%	74.1%	Improvemen t Needed
Distribution Newark, NJ Center E	78.3%	2,096	3,170	97.0%	77.1%	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