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: 74.9% 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 Center A	74.0%	2,735	2,044	95.9%	65.5%	Improvemen t Needed
,	39.7%	1,195	1,508	98.4%	80.3%	Optimized
Center B Distribution Atlanta, GA	64.9%	1,626	1,747	99.4%	88.7%	Optimized
Center C Distribution Los Center D Angeles, CA	77.3% \	1,786	2,804	95.8%	61.7%	Improvemen t Needed
Distribution Newark, NJ Center E	58.4%	1,960	2,057	96.2%	78.3%	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