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: 50

Average Utilization: 75.8% 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	90.6%	1,703	2,180	96.5%	90.1%	Optimized
Center A Distribution Dallas, TX Center B	91.0%	1,498	2,144	97.9%	74.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	66.7%	1,299	3,330	96.2%	62.1%	Improvemen t Needed
Distribution Los	108.2%	1,513	3,701	98.6%	87.1%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	^A 67.2%	1,070	2,392	99.2%	65.2%	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