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: 51

Average Utilization: 83.5% 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	109.6%	1,155	1,663	97.2%	90.0%	Optimized
Center A Distribution Dallas, TX		2,149	1,612	98.5%	88.0%	Optimized
Center B Distribution Atlanta, GA Center C	47.6%	2,961	2,017	96.7%	63.9%	Improvemen t Needed
Distribution Los	94.0%	1,372	1,749	95.5%	82.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 75.7%	2,662	2,039	97.1%	92.9%	Optimized

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