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: 55

Average Utilization: 89.0% 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		1,158	2,900	99.0%	87.1%	Optimized
Center A Distribution Dallas, TX	62.1%	2,350	2,868	97.0%	93.4%	Optimized
Center B Distribution Atlanta, GA Center C	54.8%	1,533	3,022	99.1%	79.0%	Improvemen t Needed
Distribution Los	63.3%	2,005	2,206	97.2%	94.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 77.1%	1,909	2,699	98.1%	91.0%	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