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: 29

Average Utilization: 84.6% 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	72.4%	1,995	3,127	98.9%	82.6%	Optimized
Center A Distribution Dallas, TX Center B	63.1%	2,663	2,656	96.5%	76.1%	Improvemen t Needed
Distribution Atlanta, GA	60.6%	2,914	2,289	97.2%	88.2%	Optimized
Center C Distribution Los	79.8%	1,220	2,529	95.5%	86.9%	Optimized
Genter D Distribution Newark, NJ Center E	^A 100.7%	2,236	1,776	97.6%	89.0%	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