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: 62

Average Utilization: 83.1% 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		2,370	2,238	98.7%	83.0%	Optimized
Center A Distribution Dallas, TX Center B	54.3%	2,812	3,968	95.7%	67.5%	Improvemen t Needed
Distribution Atlanta, GA	41.3%	1,612	2,030	96.7%	91.9%	Optimized
Center C Distribution Los	56.9%	1,751	1,661	97.3%	84.4%	Optimized
Genter D Distribution Newark, NJ Center E	^A 93.0%	2,726	2,325	95.9%	88.6%	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