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: 64

Average Utilization: 73.1% 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	Status
Distribution Chicago, IL		2,307	2,514	97.3%	85.7%	Optimized
,		1,437	2,807	98.9%	81.7%	Optimized
Center B Distribution Atlanta, GA Center C	75.9%	2,598	3,316	97.3%	62.8%	Improvemen t Needed
Distribution Los Center D Angeles, CA	51.3% \	2,223	3,276	98.4%	64.5%	Improvemen t Needed
Distribution Newark, NJ Center E	57.4%	2,520	2,652	98.0%	71.0%	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