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: 39

Average Utilization: 76.3% 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 Status Level	
	Distribution Chicago, IL	72.0%	2,987	2,276	96.7%	90.7%	Optimized
	Center A Distribution Dallas, TX Center B	104.9%	1,663	3,182	97.6%	61.3%	Improvemen t Needed
	Distribution Atlanta, GA Center C	39.0%	1,753	3,394	95.9%	69.4%	Improvemen t Needed
	Distribution Los Center D Angeles, CA	74.3% \	1,125	2,358	98.4%	69.7%	Improvemen t Needed
	Distribution Newark, NJ Center E	41.3%	1,434	2,272	99.2%	90.7%	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