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: 48

Average Utilization: 82.3% 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	
Dist	ribution Chicago, IL	82.2%	1,925	1,500	96.9%	89.0%	Optimized
	ter A ribution Dallas, TX		1,725	2,063	98.2%	89.3%	Optimized
Sen Bist	ter B ribution Atlanta, GA	77.9%	1,641	2,697	96.9%	81.9%	Optimized
	ter C ribution Los ter D Angeles, C <i>i</i>	116.5% 4	1,956	3,998	97.2%	65.4%	Improvemen t Needed
	ribution Newark, NJ ter E	58.2%	2,050	3,758	95.1%	86.1%	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