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: 61

Average Utilization: 77.4% 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 Chi	cago, IL	75.1%	2,526	3,748	95.8%	92.3%	Optimized
Center A Distribution Dall Center B	as, TX	103.0%	2,115	3,074	97.1%	74.0%	Improvemen t Needed
Distribution Atla Center C	nta, GA	61.2%	2,373	3,011	95.8%	74.5%	Improvemen t Needed
Distribution Los	Los Angeles, CA Newark, NJ	39.5%	2,262	3,714	95.7%	84.5%	Optimized
Center D And Distribution New Center E		53.7%	1,502	2,192	97.6%	61.8%	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