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: 66

Average Utilization: 75.3% 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 Level	n Status
Distribution Chicago, IL Center A	101.7%	2,524	2,290	97.5%	70.1%	Improvemen t Needed
,	73.1%	2,807	2,461	98.1%	86.5%	Optimized
Center B Distribution Atlanta, GA Center C	65.0%	1,282	2,139	97.7%	78.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA Distribution Newark, NJ Center E	52.1%	2,397	2,716	96.7%	80.3%	Optimized
	¹ 73.8%	2,233	2,940	97.7%	61.2%	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