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: 46

Average Utilization: 72.0% 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	45.6%	1,907	1,663	98.1%	80.2%	Optimized
Center A Distribution Dallas, TX Center B	44.5%	1,830	3,766	97.4%	66.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	115.9%	2,380	2,219	95.5%	64.2%	Improvemen t Needed
Distribution Los	47.6%	2,312	1,878	98.0%	80.7%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	¹ 116.6%	1,968	2,398	96.7%	68.3%	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