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: 72.8% 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	34.1%	1,666	2,797	96.9%	89.1%	Optimized
Center A Distribution Dallas, TX Center B	42.7%	2,905	3,612	97.0%	63.5%	Improvemen t Needed
Distribution Atlanta, GA Center C	82.0%	2,029	1,854	97.8%	65.4%	Improvemen t Needed
Distribution Los	80.6%	2,950	3,235	98.1%	80.6%	Optimized
Genter D Angeles, CA Distribution Newark, NJ Center E	⁴ 49.0%	1,839	2,433	98.6%	65.6%	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