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: 44

Average Utilization: 77.3% 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	Status
Distribution Chicago, IL		2,929	2,370	96.0%	92.0%	Optimized
Center A Distribution Dallas, TX		1,221	3,464	98.8%	80.0%	Optimized
Center B Distribution Atlanta, GA Center C	87.0%	1,288	2,251	97.4%	72.4%	Improvemen t Needed
Distribution Los Center D Angeles, CA	41.9% A	1,308	3,053	97.4%	78.0%	Improvemen t Needed
Distribution Newark, NJ Center E	120.6%	2,525	1,543	97.4%	63.8%	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