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: 43

Average Utilization: 86.8% 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	n Status
Distribution Chicago, IL		2,411	1,780	97.4%	88.2%	Optimized
Center A Distribution Dallas, TX	80.4%	1,995	1,667	98.6%	87.6%	Optimized
Center B Distribution Atlanta, GA	49.4%	2,209	1,768	96.6%	89.4%	Optimized
Center C Distribution Los	55.0%	1,159	2,469	96.7%	84.5%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 106.5%	2,064	3,261	97.5%	84.3%	Optimized

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