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: 20

Average Utilization: 81.7% 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		2,357	3,892	96.5%	80.7%	Optimized
Center A Distribution Dallas, TX		2,436	2,118	95.3%	81.6%	Optimized
Center B Distribution Atlanta, GA Center C	92.7%	1,297	3,994	97.7%	66.8%	Improvemen t Needed
Distribution Los	38.2%	1,787	2,218	96.9%	90.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	⁴ 76.2%	2,441	2,099	95.9%	88.5%	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