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: 45

Average Utilization: 84.2% 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	80.6%	2,789	3,567	99.4%	88.9%	Optimized
Center A Distribution Dallas, TX		1,208	3,887	97.2%	90.8%	Optimized
Center B Distribution Atlanta, GA	51.0%	1,712	2,698	97.1%	93.2%	Optimized
Center C Distribution Los Center D Angeles, CA	81.8% A	2,998	2,819	96.4%	60.4%	Improvemen t Needed
Distribution Newark, NJ Center E	42.2%	1,187	2,965	97.6%	87.7%	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