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: 56

Average Utilization: 86.6% 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		1,811	3,896	96.1%	87.9%	Optimized
Center A Distribution Dallas, TX		2,914	3,167	98.1%	91.7%	Optimized
Center B Distribution Atlanta, GA	68.7%	2,860	1,966	95.8%	88.3%	Optimized
Center C Distribution Los Center D Angeles, CA	72.2% \	1,479	1,551	98.3%	74.2%	Improvemen t Needed
Distribution Newark, NJ Center E	60.2%	2,385	2,719	97.2%	91.2%	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