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: 50

Average Utilization: 76.4% 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	91.0%	2,178	2,625	96.4%	85.2%	Optimized
Center A Distribution Dallas, TX Center B	136.7%	1,494	2,328	96.2%	61.7%	Improvemen t Needed
Distribution Atlanta, GA Center C	64.9%	2,291	1,590	97.6%	74.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	47.5% \	1,151	2,806	96.8%	75.5%	Improvemen t Needed
Distribution Newark, NJ Center E	42.2%	1,847	3,925	96.0%	85.3%	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