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: 46

Average Utilization: 76.8% 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	Status
Distribution Chicago, IL Center A	88.7%	1,593	2,531	97.8%	78.5%	Improvemen t Needed
Distribution Dallas, TX	50.8%	1,799	2,441	98.3%	80.6%	Optimized
Center B Distribution Atlanta, GA Center C	93.4%	1,980	2,590	97.3%	66.9%	Improvemen t Needed
Distribution Los	79.4%	2,624	1,686	95.8%	88.6%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	[\] 88.1%	2,861	2,908	95.1%	69.4%	Improvemen t Needed

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