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: 61

Average Utilization: 72.9% 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	78.6%	1,590	3,994	96.7%	91.2%	Optimized
Center A Distribution Dallas, TX Center B	40.2%	1,547	1,572	96.7%	62.5%	Improvemen t Needed
Distribution Atlanta, GA	53.9%	2,702	3,139	96.1%	84.3%	Optimized
Center C Distribution Los Center D Angeles, CA	55.8%	2,801	1,816	98.0%	60.2%	Improvemen t Needed
Distribution Newark, NJ Center E	73.1%	1,227	2,631	97.0%	66.4%	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