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: 58

Average Utilization: 78.9% 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	79.3%	1,903	3,752	95.1%	93.3%	Optimized
Center A Distribution Dallas, TX Center B	80.1%	2,309	2,192	96.2%	60.9%	Improvemen t Needed
Distribution Atlanta, GA Center C	54.4%	2,611	3,088	97.8%	72.5%	Improvemen t Needed
Distribution Los Center D Angeles, CA	78.5% A	1,458	2,935	96.4%	78.9%	Improvemen t Needed
Distribution Newark, NJ Center E	67.7%	2,917	3,184	95.3%	89.0%	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