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: 55

Average Utilization: 86.9% 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	n Status
Distribution Chicago, IL		2,548	2,585	98.5%	93.6%	Optimized
Center A Distribution Dallas, TX		1,561	2,342	95.8%	90.9%	Optimized
Center B Distribution Atlanta, GA Center C	79.2%	1,956	3,271	97.2%	72.9%	Improvemen t Needed
Distribution Los	39.2%	1,367	1,943	95.7%	91.9%	Optimized
Center D Angeles, CA Distribution Newark, NJ Center E	^A 61.8%	1,879	3,981	95.8%	85.4%	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