Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 77.7%
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 Center A	Chicago, IL	72.9%	2,574	2,524	98.8%	81.1%	Optimized
Distribution Center B	Dallas, TX	60.5%	1,237	2,039	99.2%	73.1%	Improvement Needed
Distribution Center C	Atlanta, GA	74.5%	2,869	1,628	98.3%	77.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	33.9%	2,772	3,181	95.2%	70.3%	Improvement Needed
Distribution Center E	Newark, NJ	78.2%	1,853	2,670	97.9%	86.8%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment voice-picking system to improve accuracy to 99.8%

- Upgrade WMS integration for real-time inventory visibility
- Add automated sortation system for small package handling
- Implement predictive analytics for demand-based staffing
- Consider AS/RS system for high-velocity SKUs