Warehouse Automation Analytics

Performance metrics and automation optimization insights

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Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 80.2%
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	108.4%	2,087	2,190	98.4%	68.0%	Improvement Needed
Distribution Center B	Dallas, TX	51.4%	2,420	2,706	98.6%	77.9%	Improvement Needed
Distribution Center C	Atlanta, GA	85.8%	1,274	1,696	95.3%	91.8%	Optimized
Distribution Center D	Los Angeles, CA	41.0%	1,949	2,175	95.3%	72.8%	Improvement Needed
Distribution Center E	Newark, NJ	101.1%	1,561	2,315	98.3%	90.5%	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