Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 79.5%
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	82.2%	1,920	2,900	98.6%	76.9%	Improvement Needed
Distribution Center B	Dallas, TX	89.0%	2,151	2,355	96.0%	82.0%	Optimized
Distribution Center C	Atlanta, GA	85.4%	1,546	3,096	97.1%	79.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	78.7%	2,150	3,239	95.2%	87.8%	Optimized
Distribution Center E	Newark, NJ	36.7%	2,666	1,606	99.0%	71.7%	Improvement Needed

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