Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 80.4%
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	96.5%	1,729	2,571	97.2%	78.2%	Improvement Needed
Distribution Center B	Dallas, TX	71.4%	2,693	3,679	98.1%	85.7%	Optimized
Distribution Center C	Atlanta, GA	120.7%	1,043	3,743	98.8%	76.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	60.5%	1,804	2,573	95.4%	74.1%	Improvement Needed
Distribution Center E	Newark, NJ	69.2%	2,696	3,043	96.2%	87.2%	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