Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 79.0%
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	86.1%	1,436	3,655	99.2%	93.5%	Optimized
Distribution Center B	Dallas, TX	66.2%	1,629	2,185	99.0%	71.9%	Improvement Needed
Distribution Center C	Atlanta, GA	40.8%	2,693	1,911	96.4%	80.2%	Optimized
Distribution Center D	Los Angeles, CA	119.9%	2,273	2,001	98.5%	62.7%	Improvement Needed
Distribution Center E	Newark, NJ	101.5%	2,000	1,876	97.5%	86.8%	Optimized

Optimization Opportunities

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