Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 78.7%
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	69.1%	1,777	2,219	98.0%	69.7%	Improvement Needed
Distribution Center B	Dallas, TX	80.0%	2,096	2,838	95.4%	83.6%	Optimized
Distribution Center C	Atlanta, GA	80.2%	2,480	2,131	96.7%	60.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	104.8%	1,073	3,497	96.1%	85.5%	Optimized
Distribution Center E	Newark, NJ	101.9%	2,539	1,725	96.1%	93.8%	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