Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 81.5%
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	78.4%	1,806	2,934	96.1%	79.7%	Improvement Needed
Distribution Center B	Dallas, TX	93.1%	2,389	3,787	97.1%	62.6%	Improvement Needed
Distribution Center C	Atlanta, GA	105.6%	1,061	3,326	99.2%	90.3%	Optimized
Distribution Center D	Los Angeles, CA	78.5%	2,008	2,069	96.8%	80.5%	Optimized
Distribution Center E	Newark, NJ	75.9%	2,315	3,284	97.9%	94.7%	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