Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 80.1%
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	81.9%	1,328	3,178	98.9%	90.5%	Optimized
Distribution Center B	Dallas, TX	68.4%	2,062	2,674	95.2%	86.7%	Optimized
Distribution Center C	Atlanta, GA	45.4%	2,888	3,356	96.7%	91.6%	Optimized
Distribution Center D	Los Angeles, CA	70.5%	2,242	3,376	96.8%	71.5%	Improvement Needed
Distribution Center E	Newark, NJ	52.2%	2,803	3,366	98.0%	60.6%	Improvement Needed

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