Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 82.2%
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	61.0%	1,595	2,293	98.4%	93.7%	Optimized
Distribution Center B	Dallas, TX	41.2%	1,593	3,079	97.6%	81.7%	Optimized
Distribution Center C	Atlanta, GA	45.3%	1,386	2,899	97.1%	75.6%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.1%	2,063	3,045	97.1%	88.6%	Optimized
Distribution Center E	Newark, NJ	108.5%	2,838	3,679	96.3%	71.5%	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