Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 81.8%
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	107.6%	1,489	1,712	95.0%	86.7%	Optimized
Distribution Center B	Dallas, TX	86.8%	1,555	3,846	96.1%	73.7%	Improvement Needed
Distribution Center C	Atlanta, GA	67.9%	2,861	3,455	98.9%	87.6%	Optimized
Distribution Center D	Los Angeles, CA	70.1%	2,058	3,872	96.0%	82.0%	Optimized
Distribution Center E	Newark, NJ	81.3%	1,776	3,408	97.9%	79.2%	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