Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 82.1%
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	52.7%	1,940	1,845	98.5%	87.4%	Optimized
Distribution Center B	Dallas, TX	55.4%	2,587	1,893	97.1%	77.6%	Improvement Needed
Distribution Center C	Atlanta, GA	100.3%	2,323	2,079	97.5%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	55.4%	1,225	3,571	97.2%	80.3%	Optimized
Distribution Center E	Newark, NJ	88.0%	1,072	3,867	95.4%	78.4%	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