Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 28
Average Utilization: 73.6%
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	56.2%	2,939	3,056	96.3%	76.4%	Improvement Needed
Distribution Center B	Dallas, TX	108.4%	1,099	2,249	97.5%	69.8%	Improvement Needed
Distribution Center C	Atlanta, GA	30.8%	1,461	3,939	96.5%	71.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	68.3%	2,264	3,909	98.7%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	59.0%	2,060	3,523	96.6%	89.1%	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