Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 60
Average Utilization: 75.5%
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	89.9%	1,875	3,163	95.7%	63.6%	Improvement Needed
Distribution Center B	Dallas, TX	64.6%	1,489	3,117	96.4%	78.1%	Improvement Needed
Distribution Center C	Atlanta, GA	95.2%	1,966	1,981	95.1%	90.2%	Optimized
Distribution Center D	Los Angeles, CA	61.6%	2,709	2,855	97.2%	69.8%	Improvement Needed
Distribution Center E	Newark, NJ	36.1%	1,631	3,722	95.2%	76.0%	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