Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 36
Average Utilization: 72.7%
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	81.6%	1,374	1,867	97.4%	83.5%	Optimized
Distribution Center B	Dallas, TX	80.1%	2,382	3,568	95.2%	63.6%	Improvement Needed
Distribution Center C	Atlanta, GA	72.2%	1,591	3,688	98.8%	76.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	55.6%	2,930	1,794	96.0%	61.8%	Improvement Needed
Distribution Center E	Newark, NJ	94.0%	2,420	1,944	99.3%	78.0%	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