Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 76.1%
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	67.5%	2,396	2,898	99.1%	70.4%	Improvement Needed
Distribution Center B	Dallas, TX	83.6%	2,146	1,508	96.1%	67.9%	Improvement Needed
Distribution Center C	Atlanta, GA	112.0%	1,581	2,149	97.7%	83.3%	Optimized
Distribution Center D	Los Angeles, CA	80.5%	1,262	3,876	95.7%	89.6%	Optimized
Distribution Center E	Newark, NJ	105.6%	1,224	2,089	96.9%	69.4%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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