Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 37
Average Utilization: 77.2%
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	102.6%	1,160	2,296	99.0%	63.2%	Improvement Needed
Distribution Center B	Dallas, TX	49.5%	1,312	3,278	96.4%	91.5%	Optimized
Distribution Center C	Atlanta, GA	90.0%	1,628	1,933	95.3%	91.4%	Optimized
Distribution Center D	Los Angeles, CA	80.4%	1,296	1,692	95.3%	62.8%	Improvement Needed
Distribution Center E	Newark, NJ	39.0%	2,208	2,149	95.3%	77.3%	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