Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 77.3%
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	68.8%	1,054	1,551	96.3%	88.3%	Optimized
Distribution Center B	Dallas, TX	99.3%	1,508	3,176	96.9%	65.6%	Improvement Needed
Distribution Center C	Atlanta, GA	38.5%	1,392	1,730	96.2%	85.2%	Optimized
Distribution Center D	Los Angeles, CA	68.3%	2,870	3,688	96.6%	71.2%	Improvement Needed
Distribution Center E	Newark, NJ	61.4%	2,455	3,461	99.2%	76.2%	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