Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 66
Average Utilization: 77.7%
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	67.3%	1,837	3,809	98.1%	88.7%	Optimized
Distribution Center B	Dallas, TX	33.8%	2,326	1,640	99.4%	64.3%	Improvement Needed
Distribution Center C	Atlanta, GA	66.5%	1,053	2,441	96.3%	78.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	34.7%	2,825	3,855	97.6%	81.6%	Optimized
Distribution Center E	Newark, NJ	93.3%	2,142	3,844	98.0%	75.6%	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