Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 26
Average Utilization: 76.2%
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	56.3%	2,395	2,486	99.3%	89.3%	Optimized
Distribution Center B	Dallas, TX	52.4%	1,242	3,577	96.6%	71.0%	Improvement Needed
Distribution Center C	Atlanta, GA	90.5%	2,775	3,367	96.7%	65.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	68.9%	2,978	2,946	98.2%	73.7%	Improvement Needed
Distribution Center E	Newark, NJ	79.0%	1,813	2,363	99.3%	81.7%	Optimized

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