Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 49
Average Utilization: 76.9%
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	117.0%	1,044	3,986	98.5%	82.1%	Optimized
Distribution Center B	Dallas, TX	40.0%	2,162	2,753	98.1%	81.9%	Optimized
Distribution Center C	Atlanta, GA	74.5%	1,997	3,943	98.2%	72.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.3%	1,709	2,339	97.2%	75.4%	Improvement Needed
Distribution Center E	Newark, NJ	69.8%	2,729	3,133	98.1%	73.1%	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