Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 48
Average Utilization: 81.0%
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	111.0%	1,360	2,676	97.6%	91.7%	Optimized
Distribution Center B	Dallas, TX	111.1%	1,736	1,652	98.6%	81.2%	Optimized
Distribution Center C	Atlanta, GA	31.6%	2,742	2,568	99.0%	71.0%	Improvement Needed
Distribution Center D	Los Angeles, CA	93.0%	1,175	2,771	95.6%	85.9%	Optimized
Distribution Center E	Newark, NJ	91.5%	1,565	3,946	95.7%	75.3%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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