Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 41
Average Utilization: 83.8%
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	92.0%	2,853	3,307	98.1%	82.9%	Optimized
Distribution Center B	Dallas, TX	125.3%	1,031	3,725	98.4%	74.7%	Improvement Needed
Distribution Center C	Atlanta, GA	124.1%	1,886	3,882	99.1%	94.4%	Optimized
Distribution Center D	Los Angeles, CA	46.0%	2,807	3,081	97.1%	91.4%	Optimized
Distribution Center E	Newark, NJ	32.5%	2,806	3,794	95.5%	75.6%	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