Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 83.5%
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	50.9%	2,303	2,646	97.5%	93.6%	Optimized
Distribution Center B	Dallas, TX	47.8%	2,468	2,652	98.8%	69.7%	Improvement Needed
Distribution Center C	Atlanta, GA	52.4%	2,493	3,633	95.6%	84.9%	Optimized
Distribution Center D	Los Angeles, CA	108.9%	2,673	3,646	97.9%	75.5%	Improvement Needed
Distribution Center E	Newark, NJ	60.1%	2,493	3,793	96.9%	93.9%	Optimized

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