Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 46
Average Utilization: 79.7%
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	75.6%	2,173	3,147	98.0%	90.1%	Optimized
Distribution Center B	Dallas, TX	38.4%	1,217	2,699	96.0%	78.1%	Improvement Needed
Distribution Center C	Atlanta, GA	111.2%	1,029	3,470	95.0%	84.8%	Optimized
Distribution Center D	Los Angeles, CA	85.6%	2,225	2,343	98.3%	74.9%	Improvement Needed
Distribution Center E	Newark, NJ	52.4%	2,328	2,422	95.9%	70.6%	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