Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 79.2%
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	82.8%	2,539	2,336	99.5%	94.0%	Optimized
Distribution Center B	Dallas, TX	106.3%	2,001	2,003	97.9%	88.4%	Optimized
Distribution Center C	Atlanta, GA	46.1%	1,453	2,540	99.2%	74.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	131.4%	1,011	2,520	95.3%	73.4%	Improvement Needed
Distribution Center E	Newark, NJ	86.4%	2,796	3,117	97.0%	65.7%	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