Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 72
Average Utilization: 76.1%
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	74.7%	1,576	3,503	95.4%	71.3%	Improvement Needed
Distribution Center B	Dallas, TX	38.6%	2,571	2,800	98.2%	69.0%	Improvement Needed
Distribution Center C	Atlanta, GA	92.9%	2,510	3,692	99.1%	61.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	61.5%	1,653	1,674	97.6%	91.0%	Optimized
Distribution Center E	Newark, NJ	122.3%	2,441	3,759	95.2%	87.8%	Optimized

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