Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 78.6%
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	51.6%	2,103	2,109	98.2%	89.5%	Optimized
Distribution Center B	Dallas, TX	46.9%	2,724	3,911	97.5%	68.3%	Improvement Needed
Distribution Center C	Atlanta, GA	93.5%	1,810	2,429	95.8%	80.7%	Optimized
Distribution Center D	Los Angeles, CA	52.0%	2,097	2,818	95.5%	76.3%	Improvement Needed
Distribution Center E	Newark, NJ	69.2%	2,266	3,475	99.1%	78.1%	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