Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 77.8%
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	35.2%	2,160	3,965	97.7%	91.7%	Optimized
Distribution Center B	Dallas, TX	50.0%	1,254	3,762	98.6%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	61.5%	1,147	3,885	99.5%	87.6%	Optimized
Distribution Center D	Los Angeles, CA	69.7%	1,606	3,747	99.5%	74.3%	Improvement Needed
Distribution Center E	Newark, NJ	53.5%	2,730	1,666	97.2%	62.6%	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