Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 79.4%
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	77.9%	1,941	2,647	98.4%	76.3%	Improvement Needed
Distribution Center B	Dallas, TX	38.4%	1,823	3,102	95.5%	90.2%	Optimized
Distribution Center C	Atlanta, GA	63.7%	1,972	2,311	98.8%	89.7%	Optimized
Distribution Center D	Los Angeles, CA	64.6%	1,465	3,688	98.2%	71.0%	Improvement Needed
Distribution Center E	Newark, NJ	72.0%	2,285	2,890	98.8%	70.1%	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