Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 33
Average Utilization: 76.9%
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	105.1%	2,868	1,704	98.8%	84.8%	Optimized
Distribution Center B	Dallas, TX	92.2%	1,023	3,435	98.0%	63.2%	Improvement Needed
Distribution Center C	Atlanta, GA	65.9%	1,372	1,868	95.1%	93.5%	Optimized
Distribution Center D	Los Angeles, CA	105.4%	1,054	3,067	98.4%	69.6%	Improvement Needed
Distribution Center E	Newark, NJ	115.7%	1,825	2,491	99.3%	73.4%	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