Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 78.4%
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	130.4%	1,593	1,966	98.5%	84.3%	Optimized
Distribution Center B	Dallas, TX	97.2%	1,716	1,972	97.7%	65.4%	Improvement Needed
Distribution Center C	Atlanta, GA	88.7%	1,928	2,504	97.7%	75.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	117.2%	1,548	1,514	99.3%	72.6%	Improvement Needed
Distribution Center E	Newark, NJ	55.7%	1,956	3,898	97.6%	94.0%	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