Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 78.3%
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	37.6%	2,657	3,327	98.8%	74.7%	Improvement Needed
Distribution Center B	Dallas, TX	62.1%	1,972	3,193	99.0%	68.1%	Improvement Needed
Distribution Center C	Atlanta, GA	95.1%	1,676	2,342	95.3%	87.4%	Optimized
Distribution Center D	Los Angeles, CA	52.6%	1,222	2,387	99.4%	67.1%	Improvement Needed
Distribution Center E	Newark, NJ	50.2%	2,940	1,663	99.1%	94.3%	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