Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 64
Average Utilization: 85.4%
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	75.1%	1,455	1,730	95.2%	89.1%	Optimized
Distribution Center B	Dallas, TX	66.2%	1,368	2,766	95.7%	74.5%	Improvement Needed
Distribution Center C	Atlanta, GA	39.5%	2,962	3,909	95.7%	85.9%	Optimized
Distribution Center D	Los Angeles, CA	86.3%	1,072	3,956	98.4%	93.2%	Optimized
Distribution Center E	Newark, NJ	47.4%	2,531	1,665	97.6%	84.4%	Optimized

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Implement 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