Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 47
Average Utilization: 77.0%
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	43.7%	2,552	2,785	96.2%	76.2%	Improvement Needed
Distribution Center B	Dallas, TX	47.9%	2,286	2,765	99.3%	63.0%	Improvement Needed
Distribution Center C	Atlanta, GA	92.1%	1,257	2,439	95.8%	62.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	39.2%	1,670	3,956	95.6%	90.0%	Optimized
Distribution Center E	Newark, NJ	79.3%	2,043	2,007	96.3%	93.2%	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