Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 34
Average Utilization: 80.0%
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	85.4%	2,530	1,780	97.8%	72.3%	Improvement Needed
Distribution Center B	Dallas, TX	55.1%	2,697	2,090	97.7%	73.3%	Improvement Needed
Distribution Center C	Atlanta, GA	80.3%	2,863	1,970	96.1%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	83.6%	1,029	1,546	96.3%	93.7%	Optimized
Distribution Center E	Newark, NJ	78.0%	2,712	2,595	96.2%	74.1%	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