Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 76.0%
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	71.5%	1,750	3,572	96.6%	81.7%	Optimized
Distribution Center B	Dallas, TX	42.9%	2,712	2,833	96.5%	66.4%	Improvement Needed
Distribution Center C	Atlanta, GA	89.9%	1,845	2,530	96.9%	88.3%	Optimized
Distribution Center D	Los Angeles, CA	82.9%	1,050	3,863	97.1%	78.4%	Improvement Needed
Distribution Center E	Newark, NJ	48.2%	2,266	3,633	97.4%	65.1%	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