Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 81.2%
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	42.1%	1,953	2,801	96.5%	89.1%	Optimized
Distribution Center B	Dallas, TX	57.3%	1,061	3,849	97.3%	78.3%	Improvement Needed
Distribution Center C	Atlanta, GA	95.4%	2,323	1,927	98.8%	87.3%	Optimized
Distribution Center D	Los Angeles, CA	80.2%	2,159	2,400	96.3%	79.8%	Improvement Needed
Distribution Center E	Newark, NJ	94.2%	2,079	3,123	96.5%	71.7%	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