Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 29
Average Utilization: 76.5%
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	71.9%	2,876	2,228	95.4%	70.0%	Improvement Needed
Distribution Center B	Dallas, TX	82.4%	1,420	3,314	98.8%	90.4%	Optimized
Distribution Center C	Atlanta, GA	59.3%	1,269	3,489	98.9%	90.9%	Optimized
Distribution Center D	Los Angeles, CA	117.8%	1,829	2,855	97.3%	71.3%	Improvement Needed
Distribution Center E	Newark, NJ	79.3%	2,296	3,221	99.0%	60.0%	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