Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 39
Average Utilization: 75.6%
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	38.7%	2,060	2,332	95.2%	79.6%	Improvement Needed
Distribution Center B	Dallas, TX	83.4%	2,237	2,396	99.0%	60.0%	Improvement Needed
Distribution Center C	Atlanta, GA	82.2%	1,175	3,384	97.5%	84.5%	Optimized
Distribution Center D	Los Angeles, CA	37.4%	2,592	2,414	96.9%	82.0%	Optimized
Distribution Center E	Newark, NJ	47.3%	2,025	2,906	99.1%	72.0%	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