Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 43
Average Utilization: 78.0%
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	41.4%	1,534	2,422	96.2%	67.3%	Improvement Needed
Distribution Center B	Dallas, TX	86.3%	1,864	1,807	96.8%	81.9%	Optimized
Distribution Center C	Atlanta, GA	65.6%	2,459	2,056	97.3%	93.9%	Optimized
Distribution Center D	Los Angeles, CA	48.5%	1,275	3,930	95.2%	75.3%	Improvement Needed
Distribution Center E	Newark, NJ	70.5%	2,810	3,898	98.7%	71.6%	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