Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 82.1%
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	89.0%	1,163	2,508	96.6%	93.6%	Optimized
Distribution Center B	Dallas, TX	52.1%	1,848	3,775	96.7%	94.8%	Optimized
Distribution Center C	Atlanta, GA	96.6%	2,304	3,758	96.4%	74.8%	Improvement Needed
Distribution Center D	Los Angeles, CA	49.6%	1,746	2,016	97.8%	69.9%	Improvement Needed
Distribution Center E	Newark, NJ	67.6%	2,662	1,917	99.2%	77.6%	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