Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 42
Average Utilization: 73.1%
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	33.2%	1,377	3,346	98.4%	91.7%	Optimized
Distribution Center B	Dallas, TX	93.4%	1,726	1,517	97.3%	75.6%	Improvement Needed
Distribution Center C	Atlanta, GA	64.8%	1,473	3,980	97.7%	65.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	79.4%	2,833	3,584	97.6%	68.4%	Improvement Needed
Distribution Center E	Newark, NJ	44.7%	1,571	1,855	97.9%	64.1%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%

- Implement 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