Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 38
Average Utilization: 75.2%
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	41.9%	2,426	3,240	96.7%	76.9%	Improvement Needed
Distribution Center B	Dallas, TX	116.0%	2,007	1,978	98.8%	88.0%	Optimized
Distribution Center C	Atlanta, GA	112.8%	1,306	2,604	98.2%	87.9%	Optimized
Distribution Center D	Los Angeles, CA	76.0%	2,986	1,836	97.7%	61.7%	Improvement Needed
Distribution Center E	Newark, NJ	33.1%	1,771	1,569	98.4%	61.4%	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