Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 52
Average Utilization: 86.0%
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	106.7%	2,123	2,614	98.6%	83.0%	Optimized
Distribution Center B	Dallas, TX	34.8%	1,239	3,449	96.5%	94.0%	Optimized
Distribution Center C	Atlanta, GA	65.6%	1,225	1,802	95.1%	77.4%	Improvement Needed
Distribution Center D	Los Angeles, CA	64.6%	2,521	3,060	97.1%	94.3%	Optimized
Distribution Center E	Newark, NJ	43.6%	1,186	3,428	99.0%	81.4%	Optimized

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