Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 53
Average Utilization: 84.7%
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	62.1%	1,724	2,255	97.3%	94.3%	Optimized
Distribution Center B	Dallas, TX	38.6%	2,158	3,752	97.3%	71.4%	Improvement Needed
Distribution Center C	Atlanta, GA	114.5%	2,784	3,130	97.7%	80.1%	Optimized
Distribution Center D	Los Angeles, CA	62.0%	1,260	3,724	96.6%	82.5%	Optimized
Distribution Center E	Newark, NJ	44.9%	1,292	3,003	99.3%	95.0%	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