Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 31
Average Utilization: 78.6%
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	110.8%	1,863	2,646	95.8%	82.5%	Optimized
Distribution Center B	Dallas, TX	84.1%	2,216	2,214	99.3%	80.7%	Optimized
Distribution Center C	Atlanta, GA	42.2%	2,799	2,134	96.4%	60.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.5%	2,386	3,672	97.1%	84.2%	Optimized
Distribution Center E	Newark, NJ	118.2%	2,624	2,597	97.0%	85.3%	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