Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 61
Average Utilization: 82.9%
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	70.2%	2,859	3,090	98.0%	87.7%	Optimized
Distribution Center B	Dallas, TX	79.7%	1,026	1,705	96.6%	70.7%	Improvement Needed
Distribution Center C	Atlanta, GA	73.8%	1,830	3,633	96.3%	86.6%	Optimized
Distribution Center D	Los Angeles, CA	49.4%	2,926	3,441	98.7%	80.9%	Optimized
Distribution Center E	Newark, NJ	54.9%	2,290	1,912	99.4%	88.5%	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