Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 74
Average Utilization: 75.4%
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	61.8%	1,210	1,777	96.6%	75.2%	Improvement Needed
Distribution Center B	Dallas, TX	87.8%	1,106	3,529	97.1%	68.1%	Improvement Needed
Distribution Center C	Atlanta, GA	60.9%	1,226	2,572	96.3%	69.1%	Improvement Needed
Distribution Center D	Los Angeles, CA	73.2%	1,886	3,686	95.1%	78.9%	Improvement Needed
Distribution Center E	Newark, NJ	120.8%	2,952	1,589	95.3%	85.9%	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