Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 51
Average Utilization: 79.5%
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	79.4%	1,365	3,614	97.9%	83.6%	Optimized
Distribution Center B	Dallas, TX	76.2%	1,734	2,831	97.2%	72.8%	Improvement Needed
Distribution Center C	Atlanta, GA	61.8%	1,663	2,267	97.6%	86.8%	Optimized
Distribution Center D	Los Angeles, CA	51.6%	2,763	1,531	95.6%	61.7%	Improvement Needed
Distribution Center E	Newark, NJ	42.3%	1,822	2,513	98.7%	92.8%	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