Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 40
Average Utilization: 79.3%
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	105.7%	2,051	3,733	97.1%	63.6%	Improvement Needed
Distribution Center B	Dallas, TX	82.1%	1,308	3,381	98.9%	69.0%	Improvement Needed
Distribution Center C	Atlanta, GA	91.8%	2,687	3,714	96.2%	83.1%	Optimized
Distribution Center D	Los Angeles, CA	67.2%	1,216	3,751	97.4%	93.9%	Optimized
Distribution Center E	Newark, NJ	87.9%	1,624	3,345	98.4%	87.0%	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