Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 65
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	79.1%	1,855	3,630	96.6%	73.1%	Improvement Needed
Distribution Center B	Dallas, TX	79.8%	2,086	1,984	96.3%	77.8%	Improvement Needed
Distribution Center C	Atlanta, GA	70.0%	1,848	2,519	95.8%	91.6%	Optimized
Distribution Center D	Los Angeles, CA	46.6%	1,783	2,380	96.4%	87.7%	Optimized
Distribution Center E	Newark, NJ	85.2%	2,682	3,097	97.9%	84.5%	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