Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 76
Average Utilization: 78.1%
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	86.5%	1,743	3,315	95.9%	94.6%	Optimized
Distribution Center B	Dallas, TX	43.8%	1,510	2,199	98.0%	65.1%	Improvement Needed
Distribution Center C	Atlanta, GA	61.2%	2,446	3,940	95.2%	84.1%	Optimized
Distribution Center D	Los Angeles, CA	94.6%	1,461	2,162	96.4%	62.5%	Improvement Needed
Distribution Center E	Newark, NJ	50.6%	1,759	2,909	96.0%	84.2%	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