Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 63
Average Utilization: 85.7%
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	74.7%	1,075	3,179	96.7%	94.6%	Optimized
Distribution Center B	Dallas, TX	134.3%	1,452	3,485	96.0%	89.9%	Optimized
Distribution Center C	Atlanta, GA	132.7%	2,379	2,729	98.1%	76.7%	Improvement Needed
Distribution Center D	Los Angeles, CA	55.1%	2,648	2,186	97.5%	91.6%	Optimized
Distribution Center E	Newark, NJ	86.5%	2,032	2,417	96.6%	75.6%	Improvement Needed

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