Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 45
Average Utilization: 80.1%
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	74.6%	1,813	3,206	96.3%	94.7%	Optimized
Distribution Center B	Dallas, TX	84.4%	2,766	1,786	99.0%	74.6%	Improvement Needed
Distribution Center C	Atlanta, GA	67.9%	2,080	3,686	96.4%	89.1%	Optimized
Distribution Center D	Los Angeles, CA	61.9%	1,028	1,692	99.2%	78.3%	Improvement Needed
Distribution Center E	Newark, NJ	101.5%	2,233	3,958	99.2%	63.7%	Improvement Needed

Optimization Opportunities

- Deploy 5 additional AGVs in Warehouse 3 to increase throughput by 20%
- Imple

ment 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