Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 59
Average Utilization: 75.7%
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	70.5%	2,662	3,540	98.4%	69.8%	Improvement Needed
Distribution Center B	Dallas, TX	76.8%	1,176	2,480	95.9%	80.4%	Optimized
Distribution Center C	Atlanta, GA	87.7%	1,698	2,333	99.1%	78.2%	Improvement Needed
Distribution Center D	Los Angeles, CA	59.2%	1,723	1,865	97.4%	80.7%	Optimized
Distribution Center E	Newark, NJ	59.8%	2,352	3,687	97.5%	69.4%	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