Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 54
Average Utilization: 75.2%
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	35.6%	1,446	2,070	97.4%	63.0%	Improvement Needed
Distribution Center B	Dallas, TX	74.6%	1,042	3,198	99.3%	90.0%	Optimized
Distribution Center C	Atlanta, GA	53.2%	1,958	2,537	97.5%	73.9%	Improvement Needed
Distribution Center D	Los Angeles, CA	81.3%	1,027	3,562	98.1%	85.6%	Optimized
Distribution Center E	Newark, NJ	79.4%	2,916	3,748	96.5%	63.3%	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