Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 19
Average Utilization: 77.1%
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	61.0%	1,291	3,192	95.7%	91.4%	Optimized
Distribution Center B	Dallas, TX	55.1%	2,929	2,940	97.7%	72.4%	Improvement Needed
Distribution Center C	Atlanta, GA	39.8%	1,181	3,415	99.4%	78.3%	Improvement Needed
Distribution Center D	Los Angeles, CA	55.2%	1,729	3,381	95.8%	81.6%	Optimized
Distribution Center E	Newark, NJ	56.7%	2,236	1,957	97.1%	61.8%	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