Warehouse Automation Analytics

Performance metrics and automation optimization insights

Automation Overview

Total Warehouses: 5
Total Robots: 44
Average Utilization: 73.1%
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	69.1%	2,681	1,740	98.2%	87.3%	Optimized
Distribution Center B	Dallas, TX	88.5%	2,844	2,345	95.4%	69.3%	Improvement Needed
Distribution Center C	Atlanta, GA	55.2%	1,372	2,920	98.3%	67.5%	Improvement Needed
Distribution Center D	Los Angeles, CA	47.5%	2,729	2,312	98.6%	80.7%	Optimized
Distribution Center E	Newark, NJ	63.6%	2,507	2,886	97.5%	60.9%	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