

Ford Otosan Romania Assembly Lines Get Ready into “Electric Future” with RoT STUDIO’s Virtual Reality Training Solutions

At-a-glance

Industry: Automotive manufacturing

Customer: Ford Otosan Romania – Producing Ford’s best-selling European passenger and commercial vehicles at the Craiova facility and will start building all electric versions in 2024.

Customer's Challenge: The facility needs to transform its assembly training operations to ramp up mass production of the new models in the most effective way.

Solution: RoT STUDIO – Trainer Module

Results: Virtual Reality Assembly Line trainings are initiated with RoT STUDIO Trainer module. 210 training sessions were delivered in the first 2,5 months.

Overview

Ford Otosan Romania’s Craiova facility plays a key role in Ford’s electrification and commercial vehicle growth plans for Europe.

Transforming Vehicle Assembling Trainings With Virtual Reality

Introducing a new model to the production line and prepare the workforce to build new models on assembly lines are common challenges in the industry. Ford Romania was aiming to ensure that the assembly workforce improves their understanding of the assembly processes of the new models in the most effective way. Therefore, the company decided to transform the assembly training environment from physical methods to faster and more flexible 3D Virtual Reality platforms to stay competitive, meet changing demands and regulations, and maintain consumer interest and loyalty.

To support and improve the performance of assembly line operations, No code “Trainer” module of RoT STUDIO Virtual Reality platform solution was preferred. With the easy modeling and designing features of the RoT STUDIO Trainer module, 210 training sessions were delivered in the first 2,5 months.

Easy-to-design Solution: RoT STUDIO Trainer Module

A holistic, virtual 3D model of the assembly line was prepared on the no code RoT STUDIO Trainer module. The company virtually recreated every assembly procedure and step through RoT Trainer module.

RoT Trainer module offers a three-dimensional space to the trainees, simulating a real assembly environment. The operators are guided step-by-step through exact arrangement of machines, shelves, tools, and parts along the assembly line. Special virtual reality glasses are utilized to simulate the assembly process, ensuring the operators become proficient with each process. The assembly operators practice assembling vehicles with full sequence, parts, and tools, following each instruction on the training module. The trainees can repeat all assembly and fitting actions as many times as necessary to make them familiar with all procedures and tasks.

Ford Otosan Romania trainings team in Craiova facility states that the RoT STUDIO platform has great features which assist them to design the assembly line training modules quickly and easily without any coding. The team also underlines the solution-focus of the RoT team during the deployment of the platform.

Results of VR-Based Assembly Trainings

- More controlled, effective, and safer assembly training environment without any physical vehicle or prototype.
- Assembly operators now already know the process before they get to the actual vehicles.
- Significantly less critical errors in assembly steps.
- Helps reducing occupational on-site injuries.

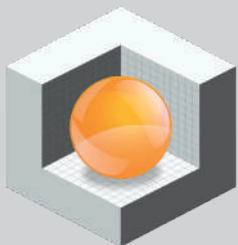
“Our Craiova facility is improving its assembly line operations through Virtual Reality based trainings, with the support of RoT STUDIO Trainer module. Instead of having one vehicle and train few assembly operators at once, RoT STUDIO Trainer module has allowed us to train more operators virtually on any stage of the assembly process. It gives us more flexibility, efficiency, and focus, while shortening the time to improve the overall assembly process.”

210 training sessions, developed on the Rot STUDIO platform, were held in the first 2,5 months of deployment. As easily configured training modules of RoT STUDIO enable creation of new teaching programs, Ford Otosan Romania plans to design more training modules on the platform for upcoming new models and versions.



We are happy that our industry leader customer, Ford Otosan Romania accelerates the adaptation of their field workforce to changing business environment successfully with RoT STUDIO's flexible VR-based training modules.

- Selda BAGDAT BAHADIR
RoT STUDIO Managing Partner



RoT STUDIO
Realization of Things

is Turkey's first local Virtual Reality content and training development platform. It has been working for more than 20 years for its customers to create their own virtual reality content in an easy, fast, accurate and collaborative way.

rotstudio.com

RoT STUDIO Product Family consists of 2 modules:

RoT Designer, RoT Trainer

Advantages of RoT STUDIO

- Collaboration of the development teams, found in different locations on the same data in the same virtual scene
- Visualization of shared data and interactive collaboration
- Ability to take measurements and sections within the scene
- Avatar representation of the participants
- Voice chat in the scene
- Acceleration of decision-making processes
- Reducing the need for physical prototypes