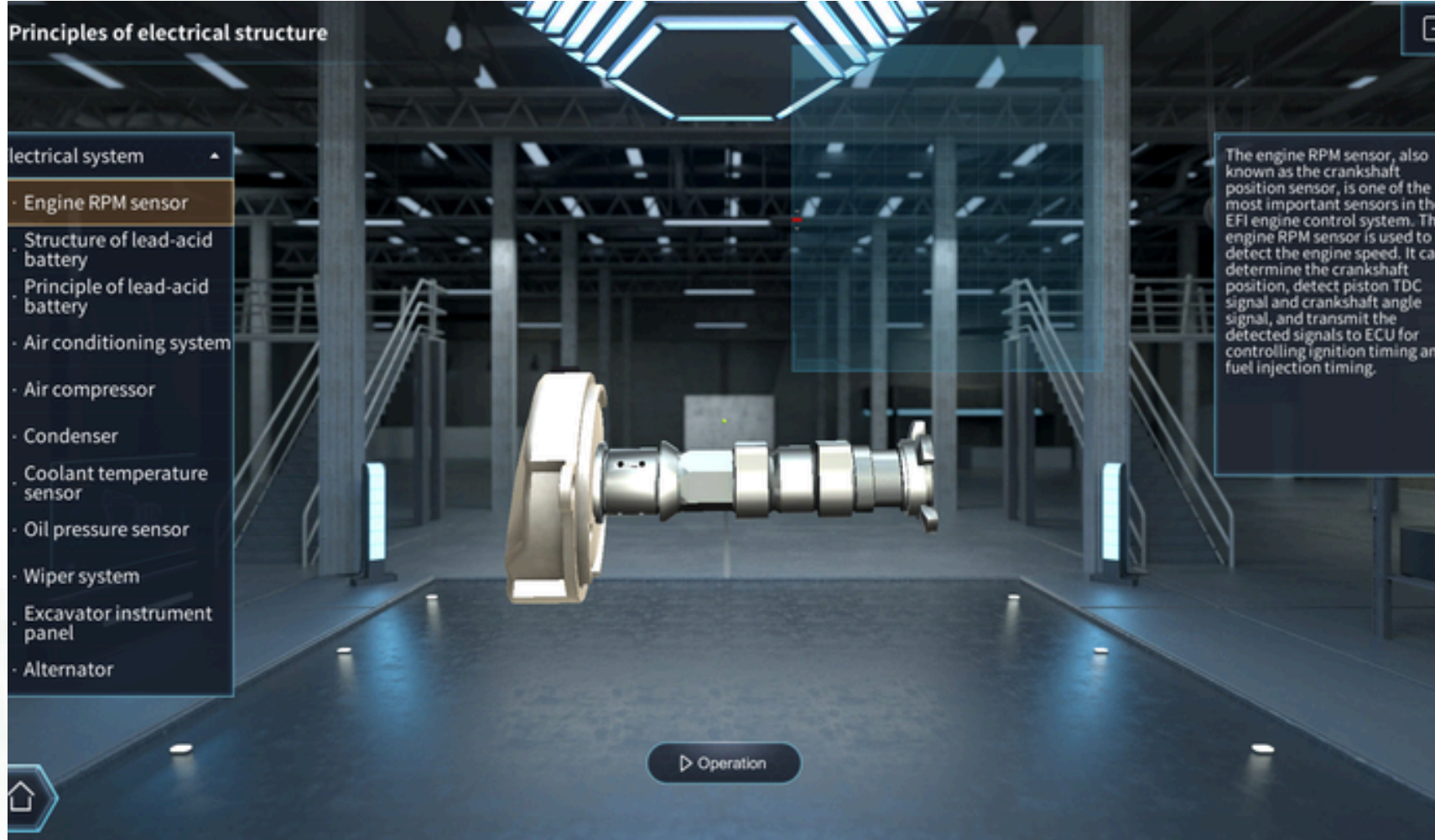
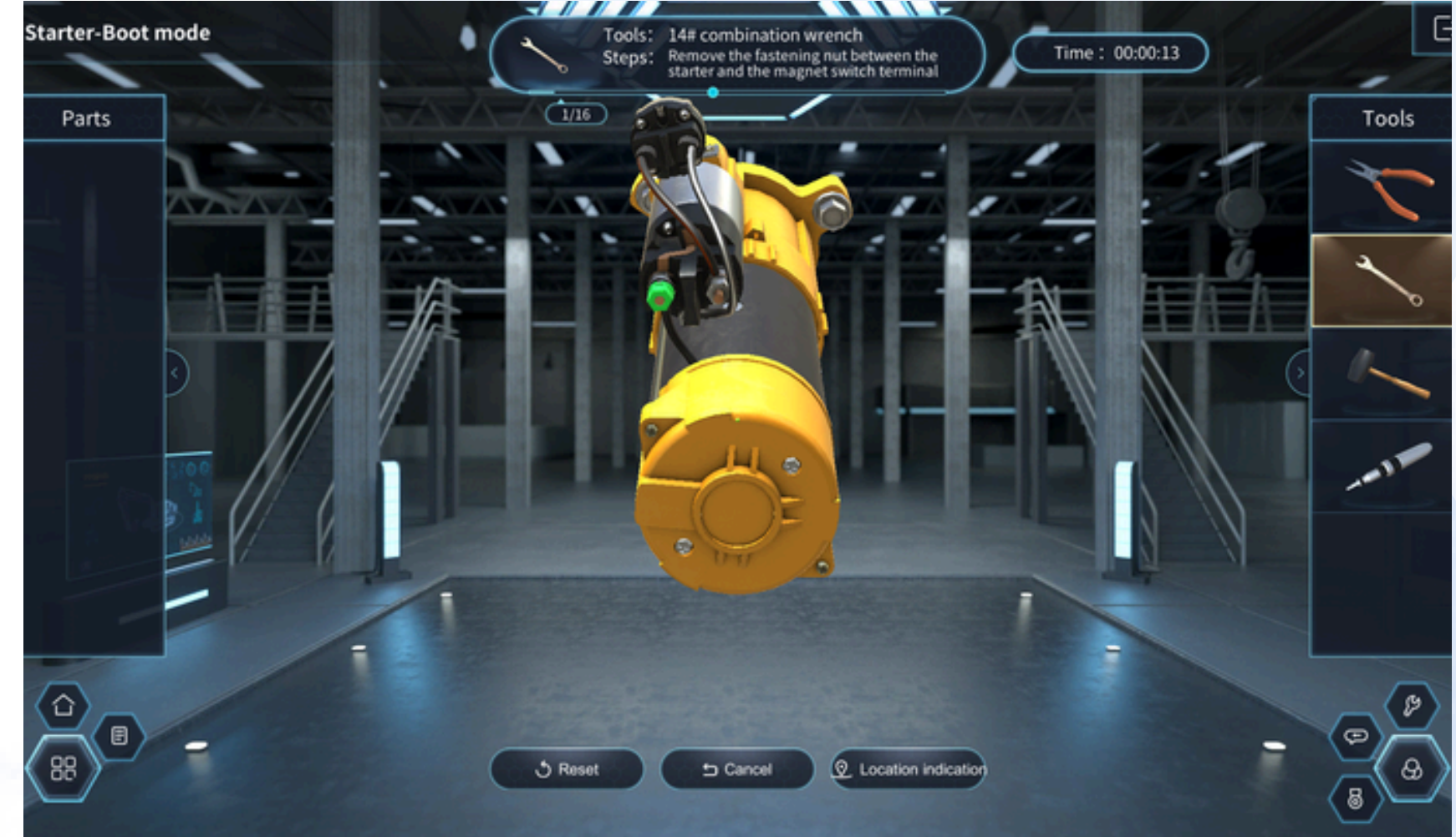


# VR Software for Practical Training on Maintenance of Construction Machinery Electrical System

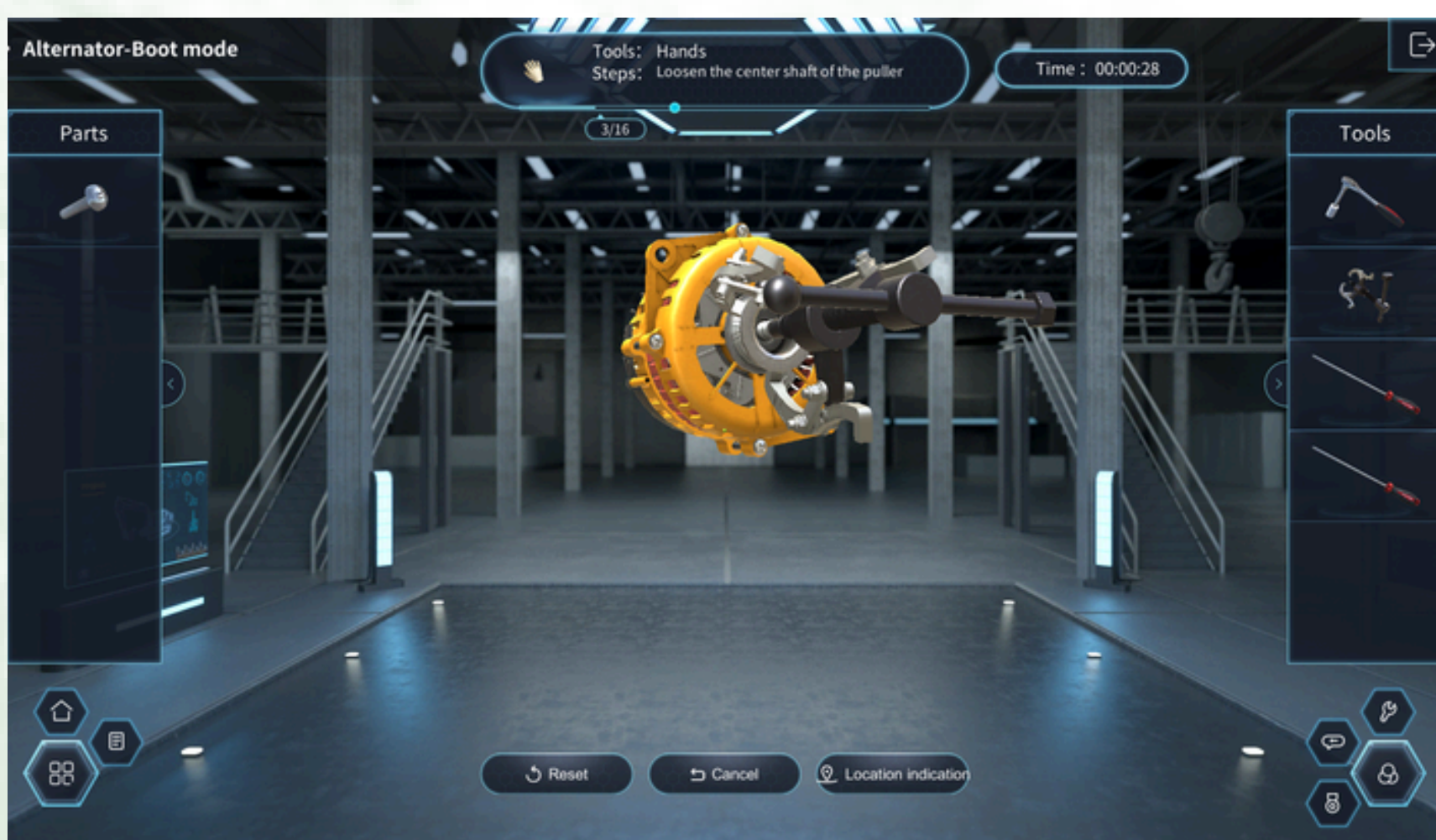
The VR software for engineering machinery electrical system maintenance training is a practical teaching product designed and developed for **vocational colleges** and **applied undergraduate colleges** to assist in engineering machinery teaching. This software adopts the most advanced VR virtual simulation technology to simulate the disassembly and assembly of **excavator electrical systems** and related principle teaching. It is developed through real data collection and university research, and guided by well-known experts. Students can learn the structural principles of excavator electrical systems, as well as practical training on disassembling and assembling AC generators and starters through virtual scenes. The 3D materials in the software are **modeled 1:1** according to real objects, which can clearly display the relevant structure of the excavator electrical system in front of students.



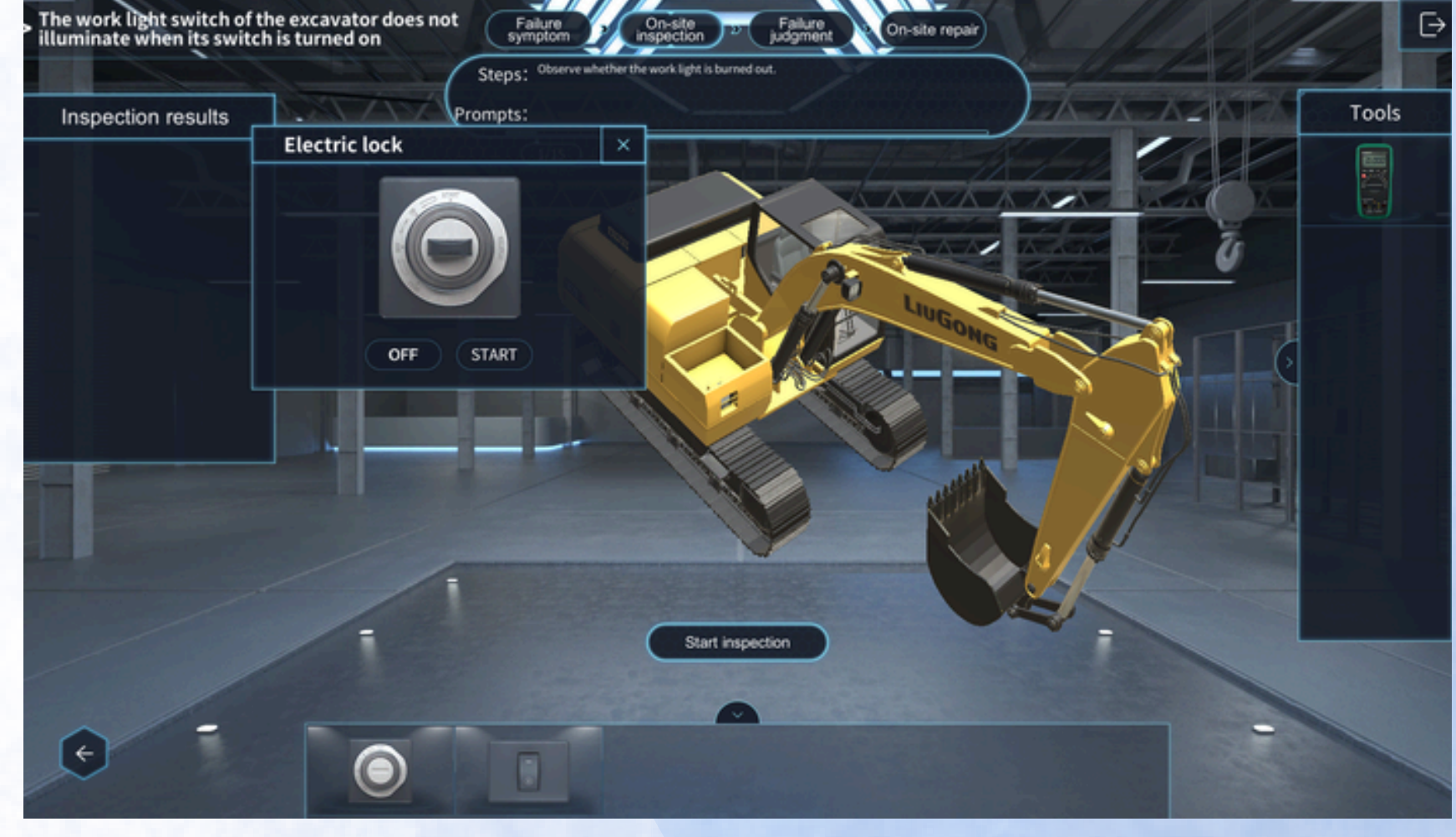
Text description, model display, and work animation of the construction machinery electrical system structure principle



Interactive training exercises on disassembly of AC generator and starter motor



Interactive training exercises on assembly of AC generator and starter motor



Interactive training exercises for excavators, turning on the work light switch but the work light does not turn on, excavator engine cannot start normally, etc

## Highlights

- The software not only provides theoretical knowledge points from professional materials for teaching, but also simulates practical operations such as **disassembling and assembling AC generators** and **starters**, helping to make the pre training process more efficient.
- The content of the model resources is based on the **Liugong 922E excavator**, and the 3D solid modeling is strictly carried out according to the **1:1 size** of each component of the overall structure.
- The structural principle module allows for arbitrary dragging, free rotation, and scaling of the model; Clear and intuitive structure and principle analysis support operations such as **pausing, replaying**, and **model explosion**.
- Equipped with the leading **Desktop, All-In-One Virtual Holographic Interactive Desktop**, providing enhanced operational experience and advanced presentation effects.

## Functionalities

Modules	Content
Structure Principle	Basic components of engine speed sensor, lead-acid battery structure, lead-acid battery principle, etc.
Disassembly Training	Disassembly of AC generator and starter motor.
Assembly Training	Assembly of AC generator and starter motor.
Fault Diagnosis	Excavator engine cannot start normally, excavator starter cannot start normally, excavator dashboard alarm, etc.