

Jiangxi KMAX Industrial Co., Ltd.	Document Version	Confidentiality Level	Total Number of Pages
	V4.0	High	18

Fun2 Mechanical Fundamentals VR Instruction V4.0

User and Customer Service Manual

Jiangxi KMAX Industrial Co., Ltd.

All Rights Reserved

Contents

1.	Introduction	1
1.1.	Purpose	1
1.2.	Context	1
1.3.	Definition	1
1.4.	Reference	1
2.	Features	1
2.1.	Feature Highlights	1
2.2.	Performance	2
3.	Operation Environment	2
3.1.	Hardware Requirements	2
3.2.	Software Requirements	2
4.	Getting Started	2
4.1.	Installation	2
4.2.	How to Interact	3
5.	Troubleshoot Problems	14

1. Introduction

1.1 Purpose

This guide is intended to help users learn how to use this software.

1.2 Context

This software is proposed and developed all by Jiangxi KMAX Industrial Co., Ltd.

1.3 Definition

Term	Explanation
Us	Jiangxi KMAX Industrial Co., Ltd.
zSpace	zSpace refers to zSpace all-in-one computers and laptops with AR and VR capabilities developed by zSpace, Inc.
VR	Virtual reality technology

1.4 Reference

Mechanical Fundamentals (China Labour & Social Security Publishing House)

2. Features

2.1 Feature Highlights

2.1.1 Visualized instruction—This software utilizes 3D simulated model components to realize visualized instruction.

2.1.2 Safety instruction process—This software adopts intellectualized techniques to reveal the structural relationships among mechanical components and deepen the learning of students.

2.1.3 Simulated animations in this software disclose working principles of all components while the breakdown animations displays component composition.

2.2 Performance

This software can run continuously and stably for 12 hours without any failure.

3. Operation Environment

3.1 Hardware Requirements

zSpace laptops, zSpace300 and other zSpace products with higher specifications.

Performance parameters:

Specifications of zSpace300	
Display	24" HD Display (1920x1080) with zSpace head tracked stereo display technology
Processor	Intel i3
Memory	8 GB DDR4 RAM
Graphics	Radeon Pro WX3100 Embedded GPU
Peripherals	zSpace Stylus, zSpace Eyewear (Passive Stereo glasses and 2D conversion glasses), Keyboard and Mouse

3.2 Software Requirements


This software runs on zSpace all-in-one computers and laptops and with Windows 10 operating system.

4. Getting Started

4.1 Installation

4.1.1 Client Deployment



Double-click the executable file , and install it as prompted.

4.1.2 License Registration



After the software is started and a registration window pops up, please enter an activation code issued by Jiangxi KMAX Industrial Co., Ltd. into the product key blank. Click the activation button to activate and use this software.

4.2 How to Interact

4.2.1 Home Page



4.2.2 Click the plus sign  to view the settings and the user guide video.

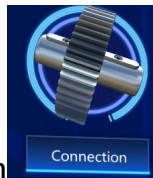
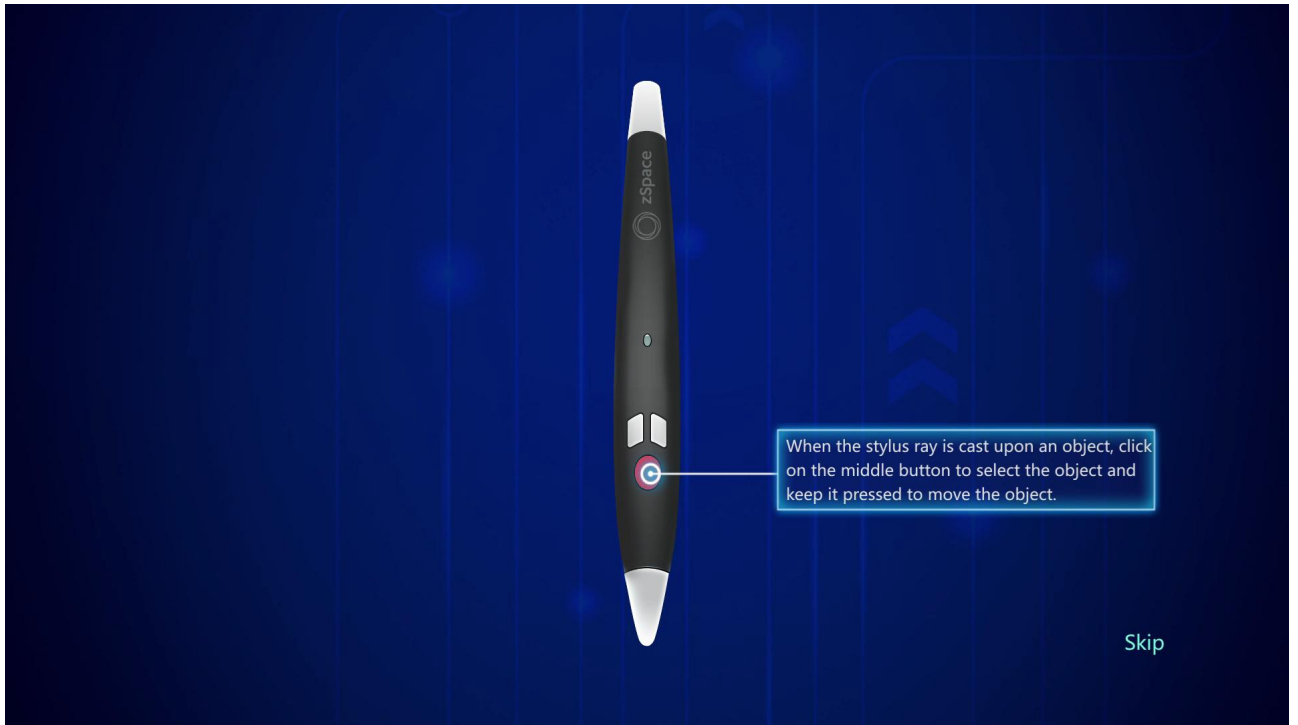
Click the Exit button  to exit the software.



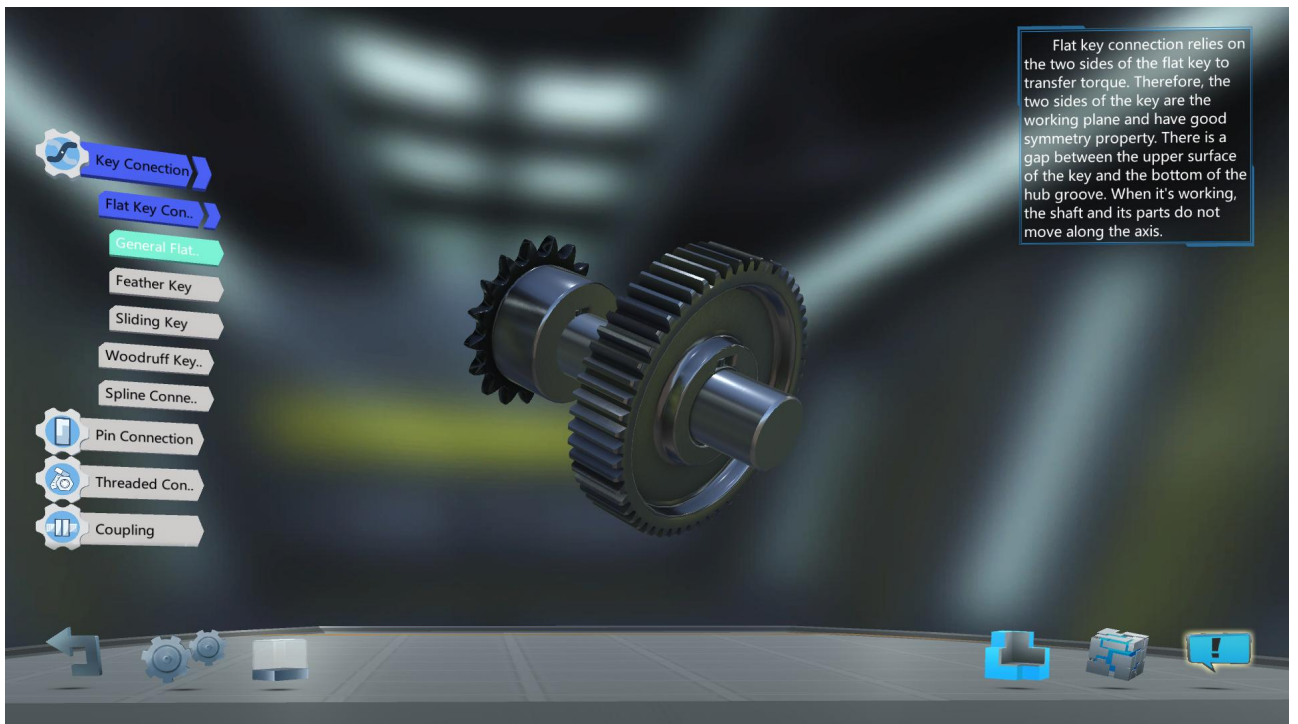
4.2.3 Click the Settings button  to adjust language, vibration of stylus pen, pupil distance and other settings.



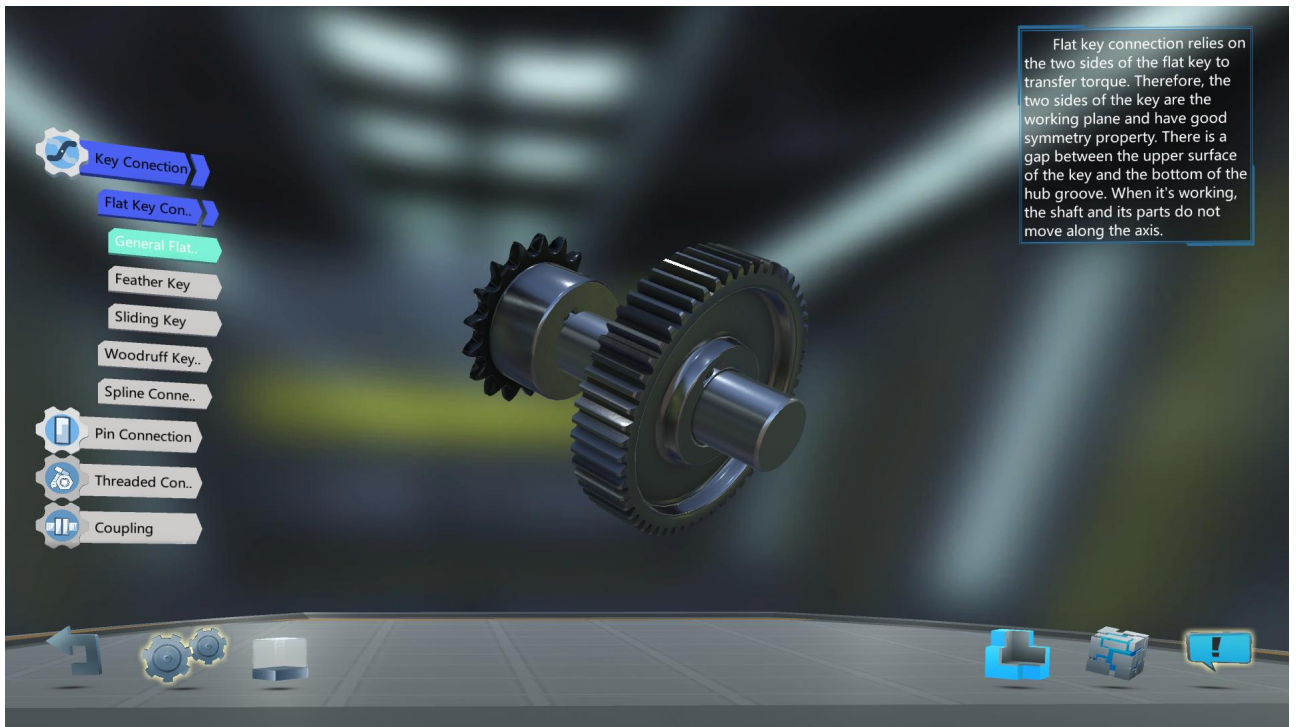
4.2.4 Click the Guide button  to view the user guide video.




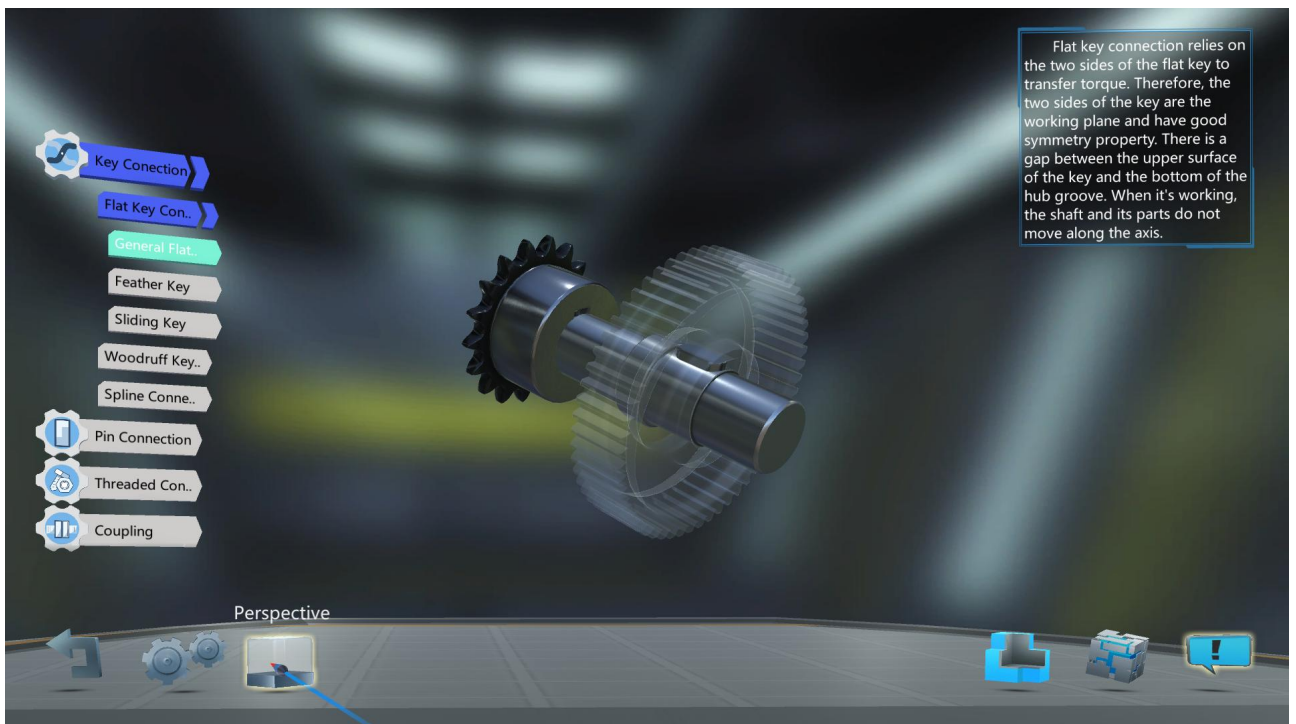
4.2.5 Click the Connection button to enter the Mechanical Connection Module.




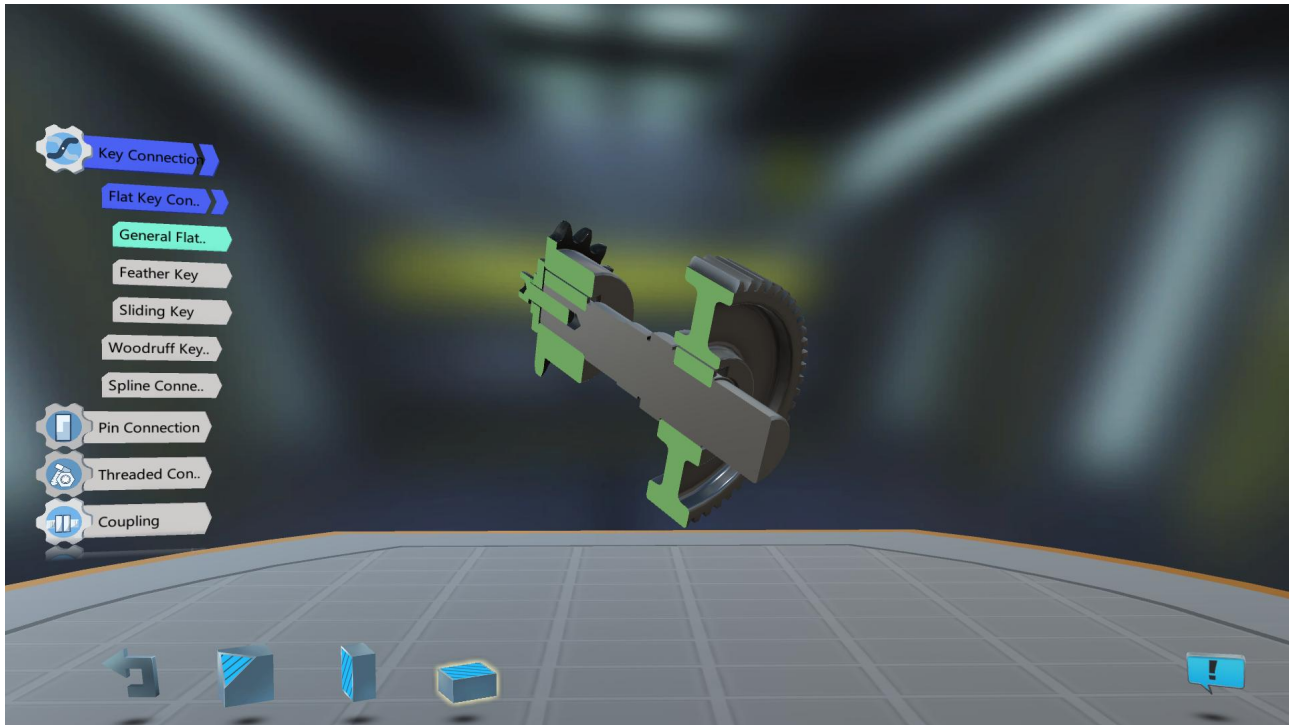
4.2.6 Click the Principle button to view the working principle animation and see how the components are cooperating with each other.




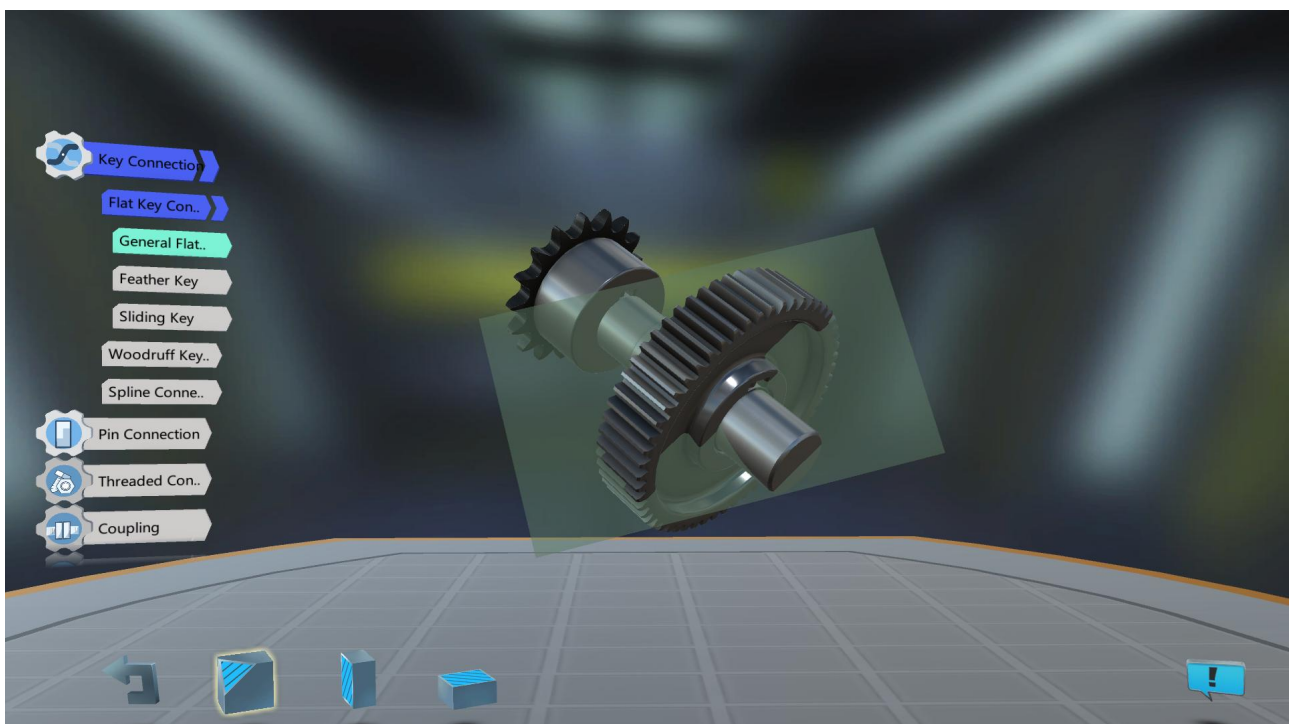
4.2.7 Click the Perspective button  to observe components in a perspective view.

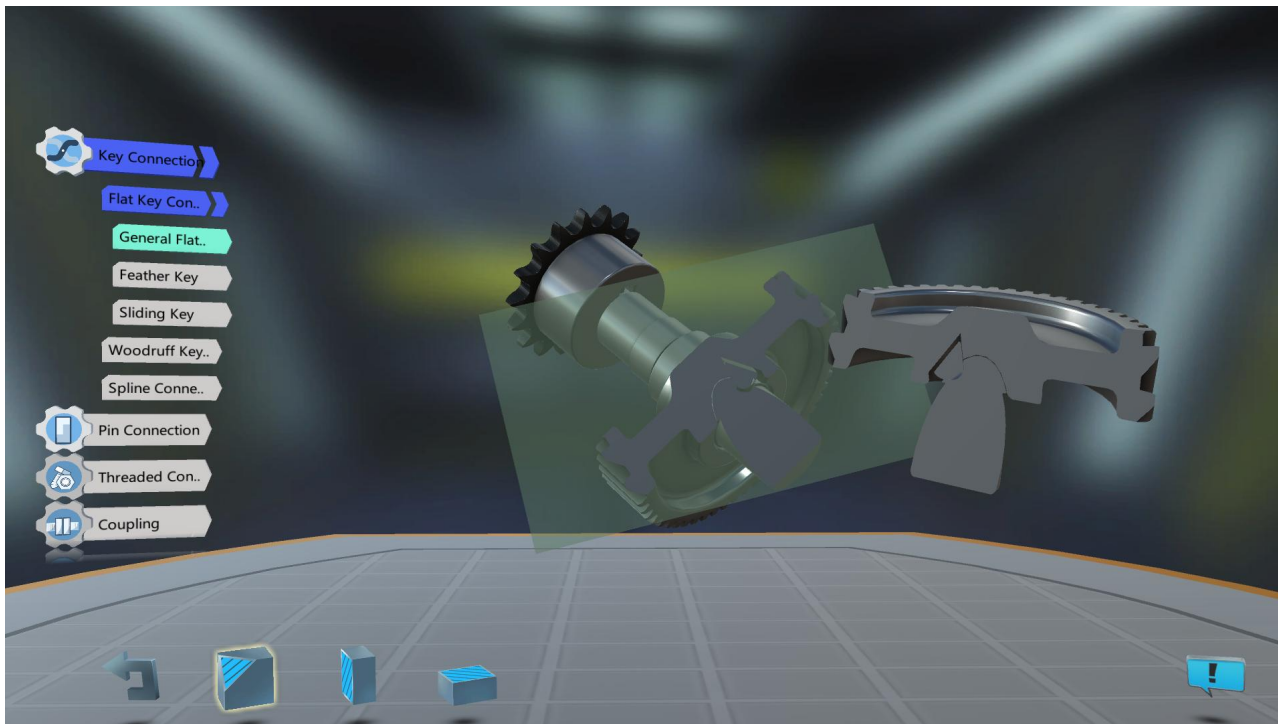


4.2.8 Click the Section button  to see the longitudinal sections, tranverse sections and arbitrary sections.

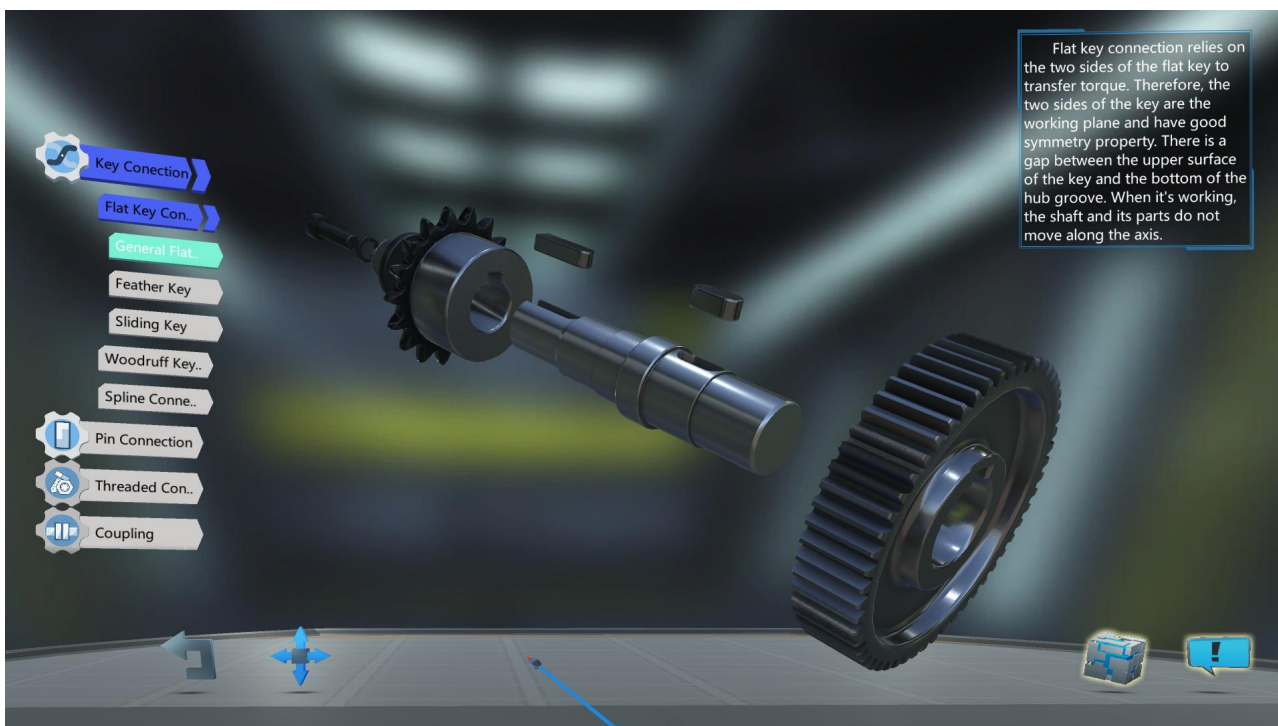


4.2.9 Click the Arbitrary Section button . A cutting plane occurs to help section a component arbitrarily. Put the dissecting plane through the object from any angle first. Then press the right stylus button to dissect the object. Cast the stylus ray on any dissected part and press the middle button to move it. Press the left button to restore the dissected object.

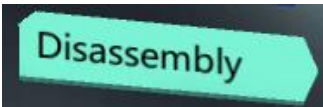
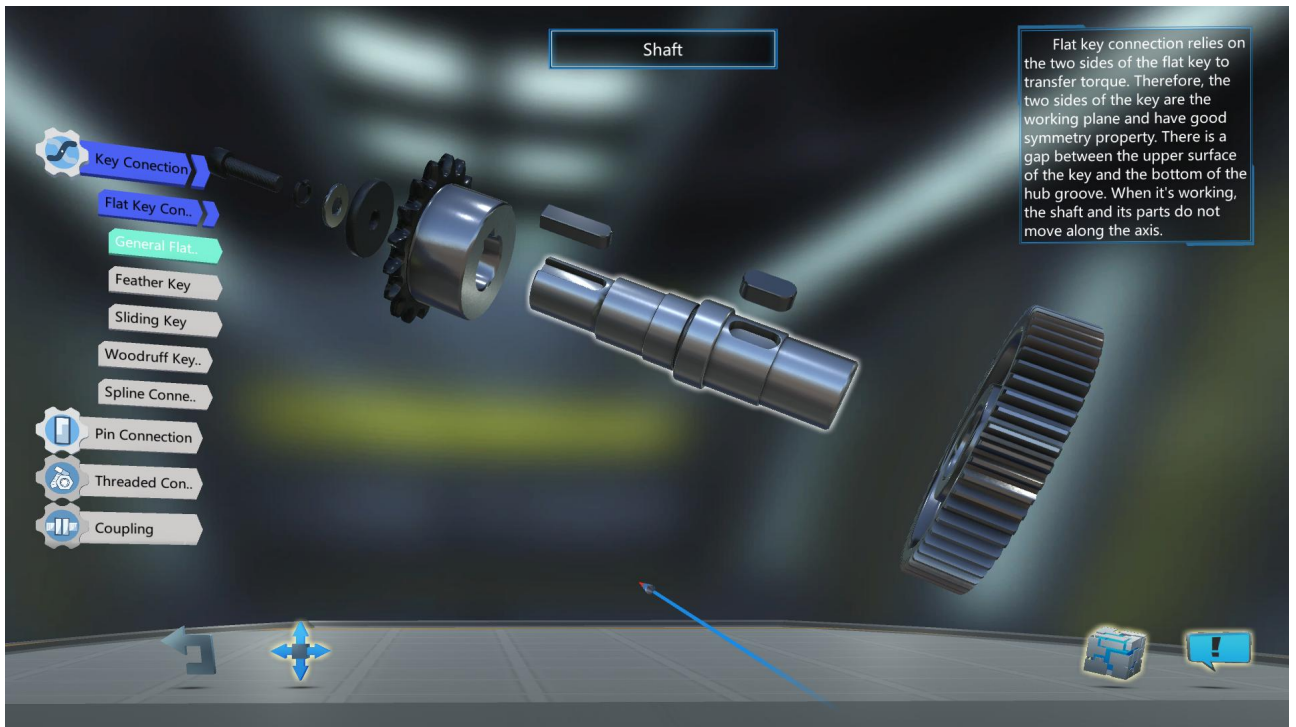




4.2.10 Click the Exploded View button to explode a model and observe its components in an exploded view.

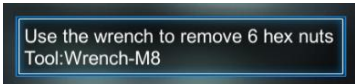


4.2.11 Click the Move Model to move the components as a whole. And click it again to move components separately.



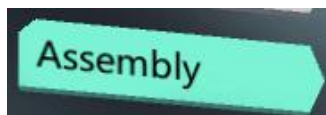
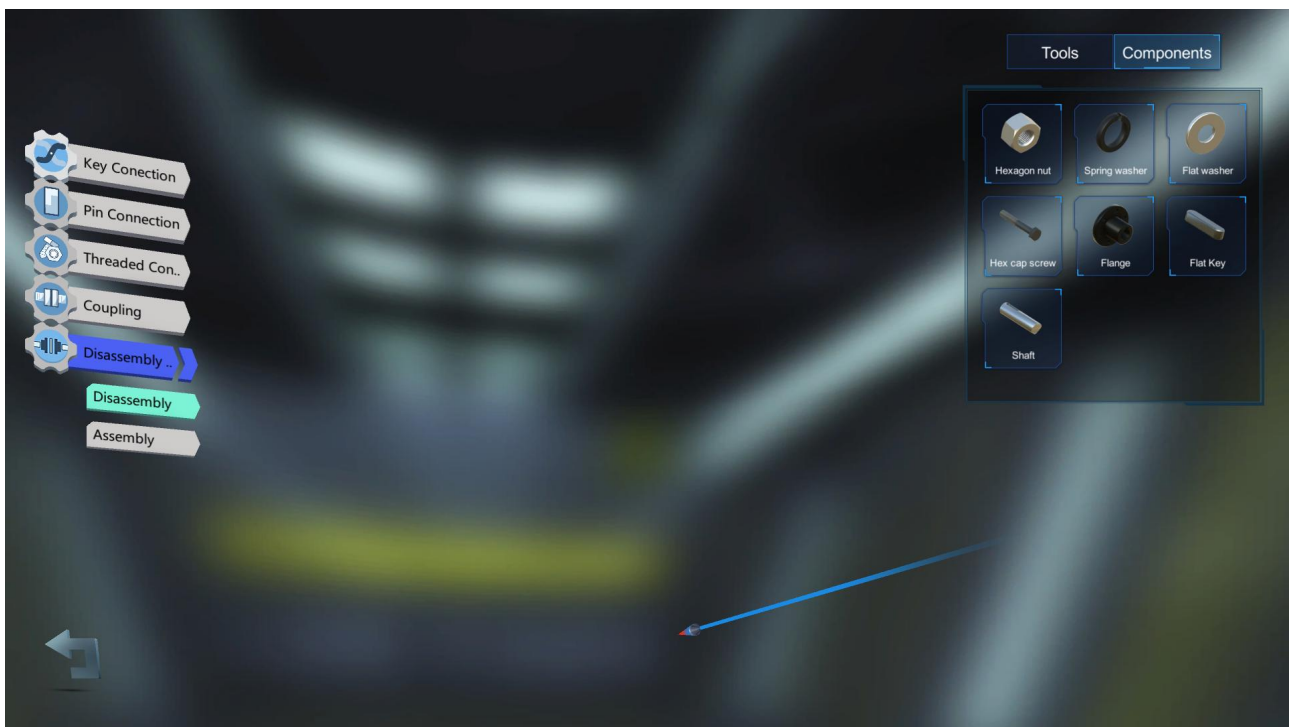
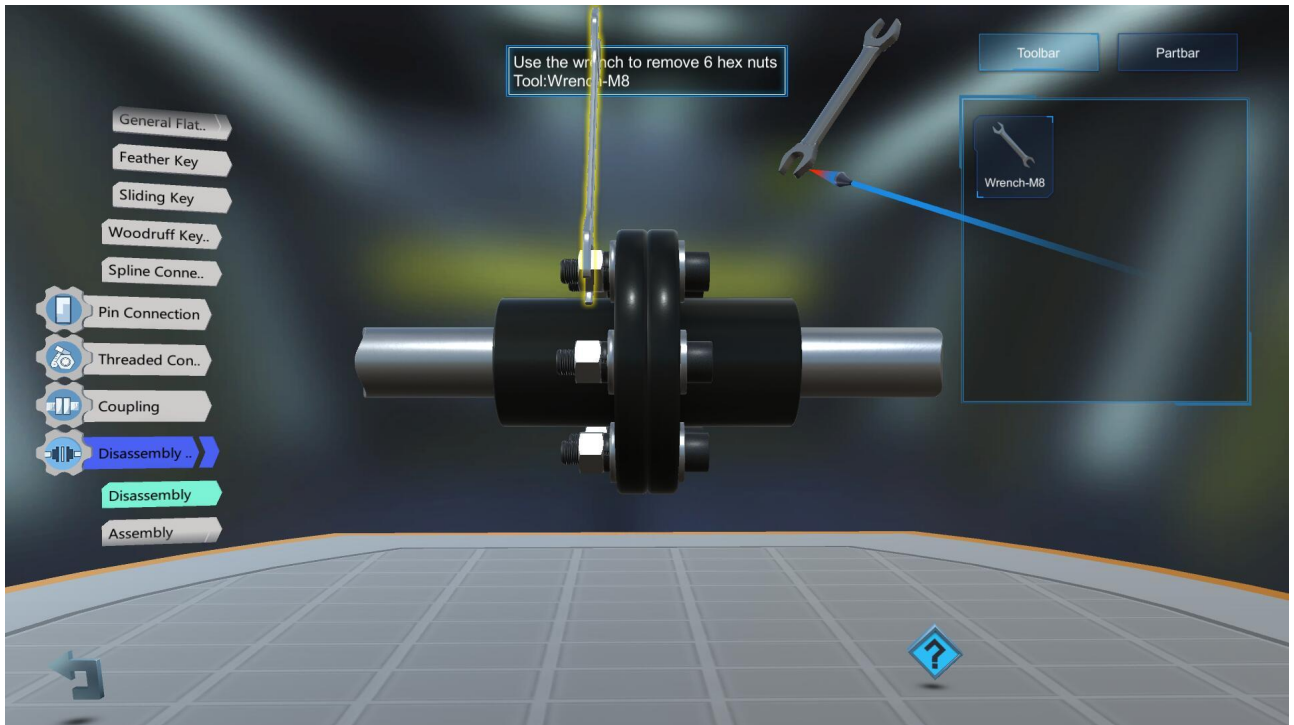
4.2.12 Click **Disassembly** in the Disassembly & Assembly Training module.

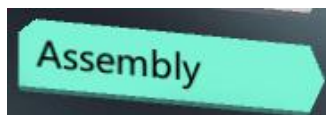
Disassembly Process:



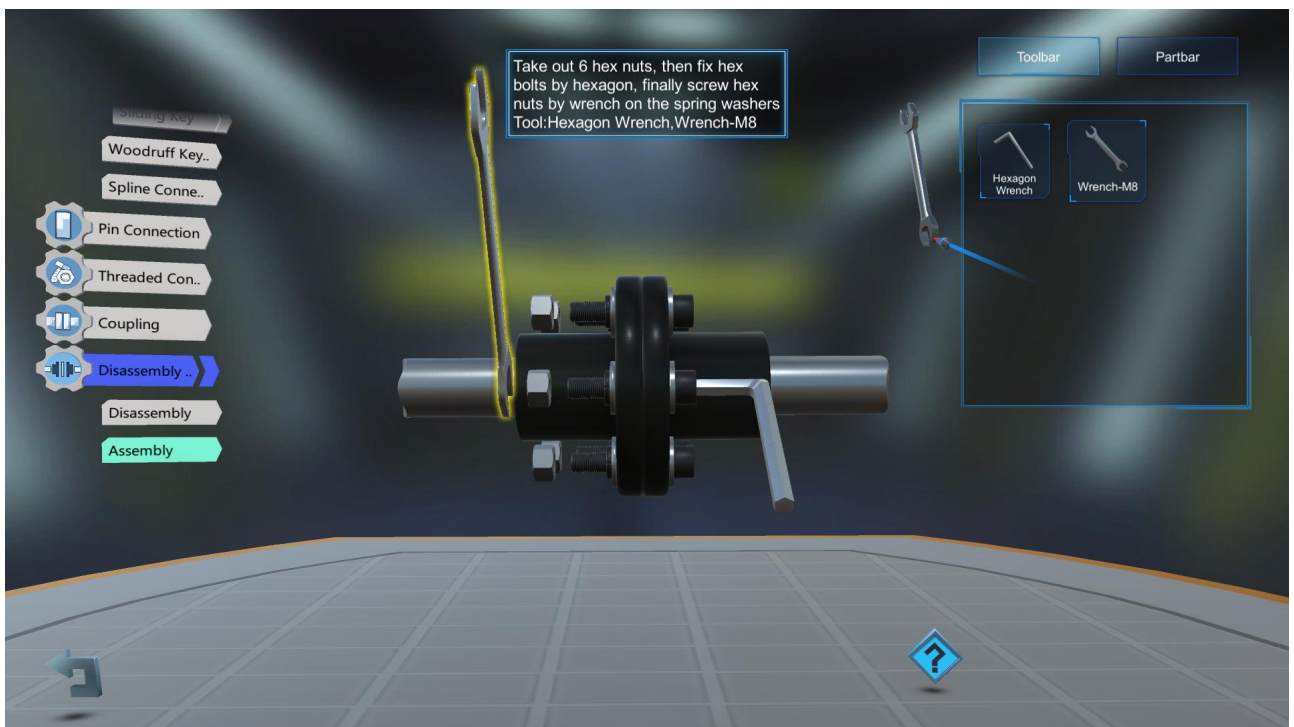
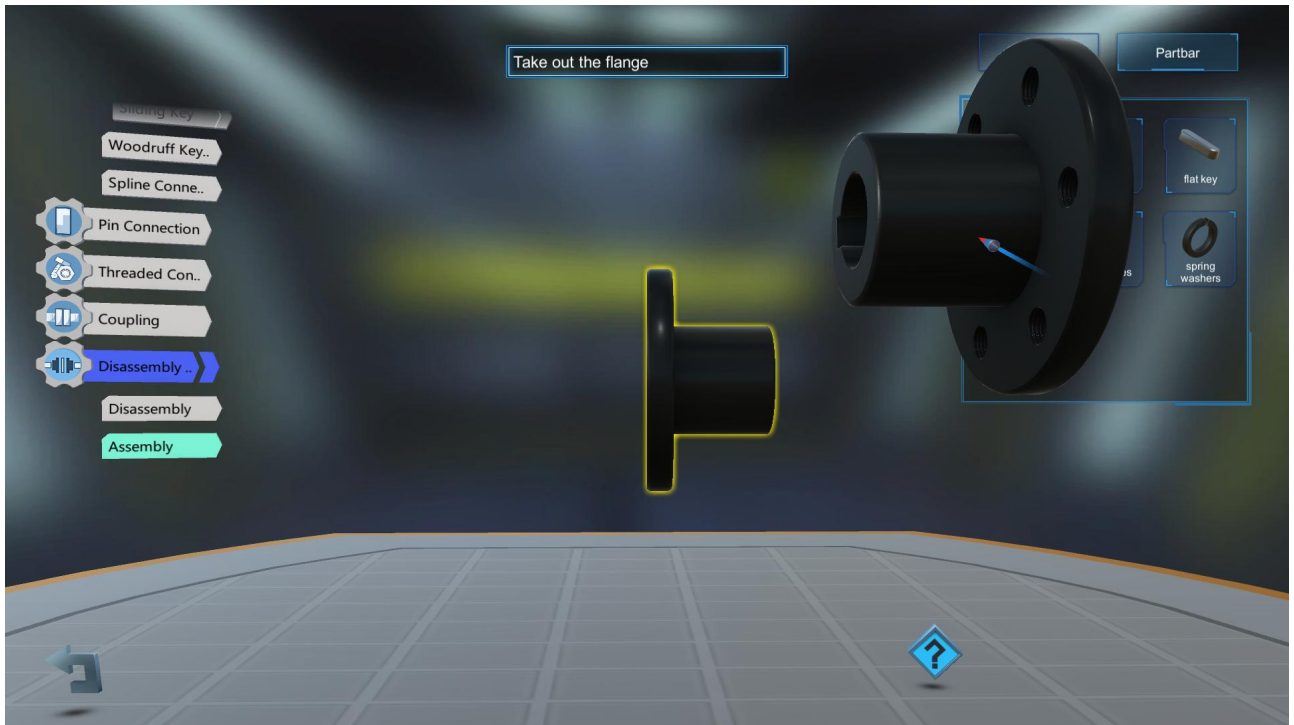
First read the text on the top to know what to do, and then click the part to be disassembled. If tools are needed, select the tool from the tool bar, drag it close to the part to be disassembled, and then click the part to

disassemble. The disassembled parts will be placed in the part bar.



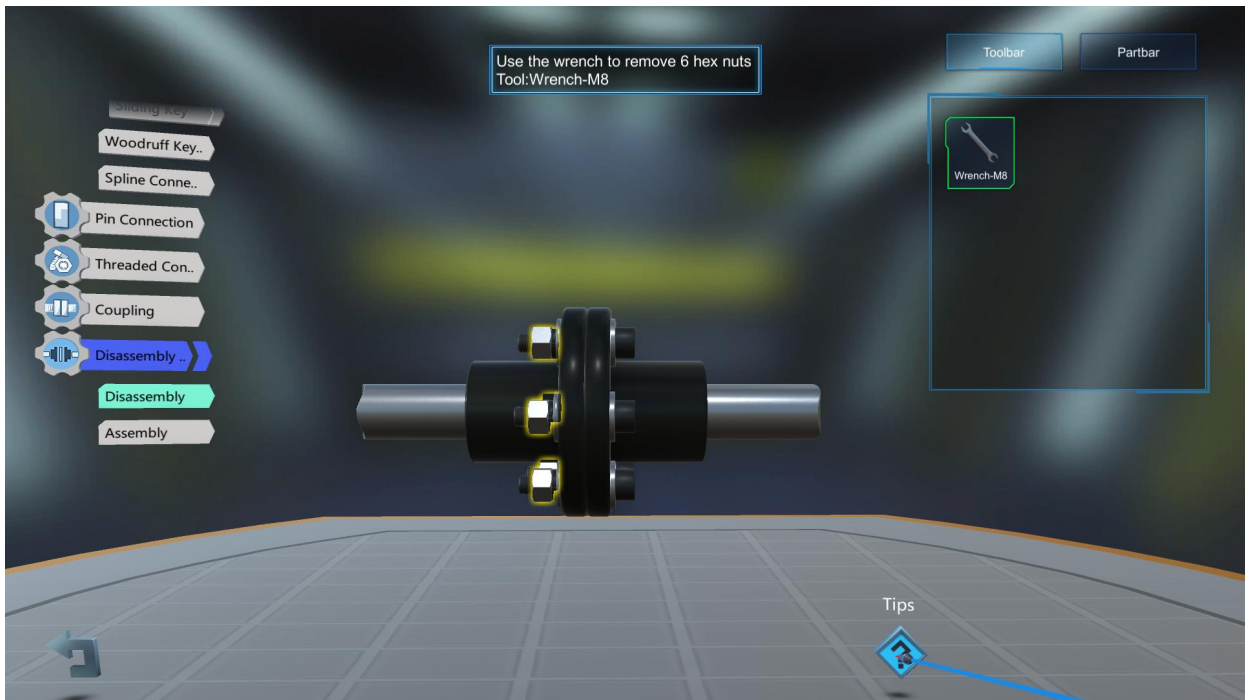
4.2.13 Click  in the Disassembly & Assembly Training module.

First read the text on the top to know what to do, then choose parts and tools if necessary, drag them to the right place, and click on the part to be assembled.



4.2.14 Click the Prompt button in the Disassembly & Assembly Training module.

When confusing about what to do next, click the Prompt button, and the corresponding model or tool will be highlighted accordingly.

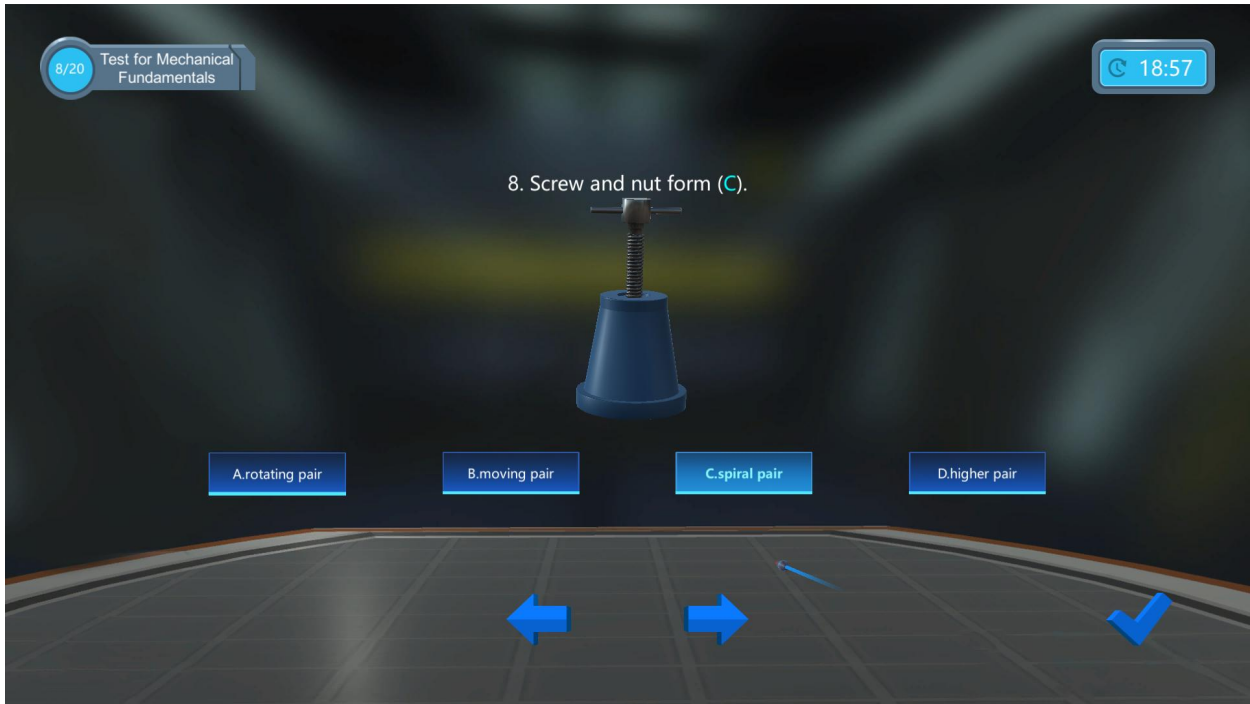



4.2.15 Click the Assessment button to enter the Assessment module. This assessment includes 20 multiple-choice questions needing to be completed within

20 minutes with a total of 100 scores. Click the submit button to submit




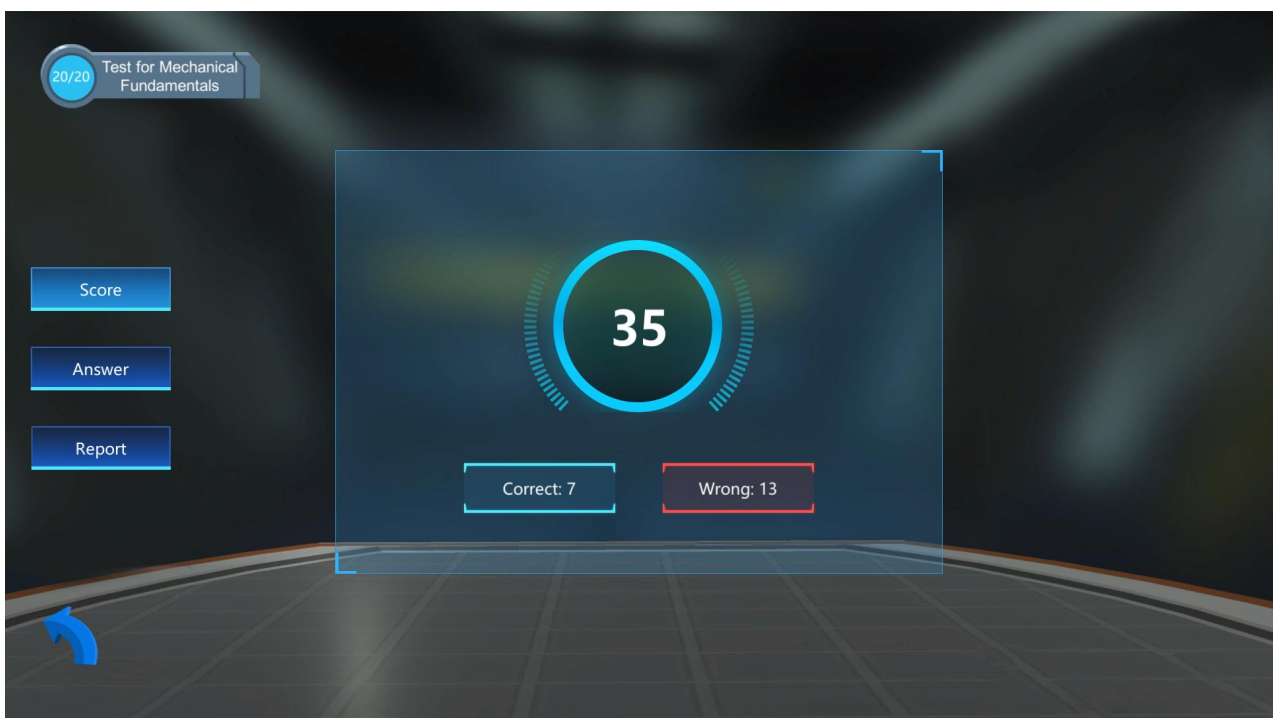
after finishing all the questions.

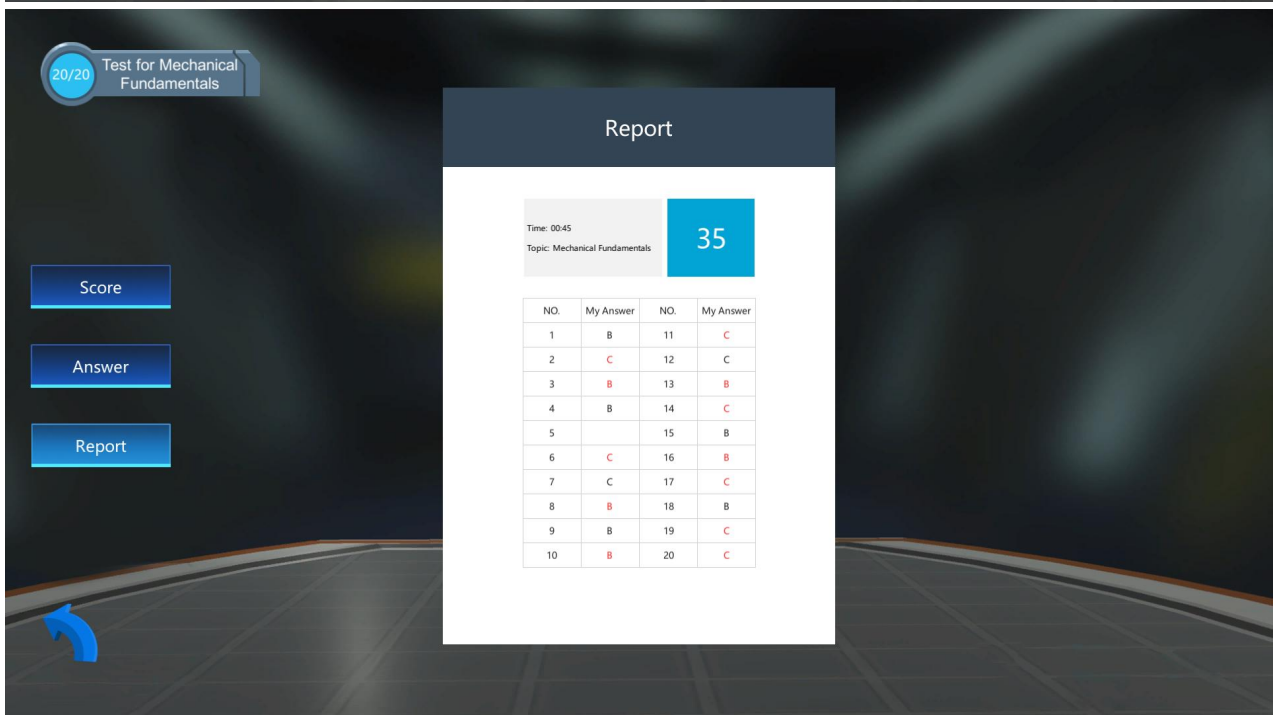
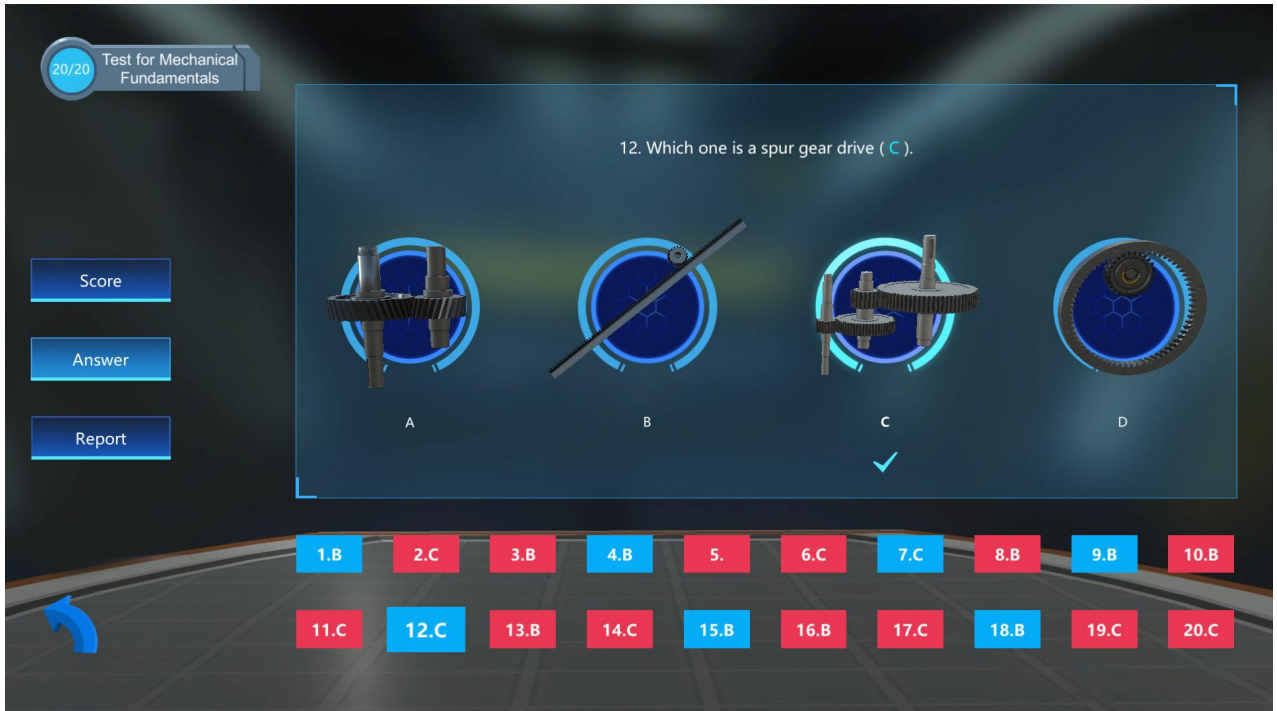


4.2.16 Click the Score button  to see the results, click the Answer

button  to see detailed answer analysis, click Report

button  to save the results as a picture.





5. Troubleshoot Problems

Problem 1: zSpace stylus ray cast may divert in use. It can be fixed by moving the stylus pen close to the screen.

Problem 2: When an object is moved wherever out of sight and cannot be interacted with, click the left stylus button to restore the placement of objects.

Problem 3: This software can work only after it is registered. So please contact the research center of Jiangxi KMAX Industrial Co., Ltd. to acquire an activation code.

Problem 4: When connected to a second display, if the software screen is not displaying in full screen view, do as follows: turn off the software, right-click the mouse on the desktop to enter the Display settings, and in the Multiple Displays section, select Extend. Designate zSpace the primary monitor and restart the software.