

CNC VR Instruction

This VR training software of CNC machine tools is designed for **higher vocational colleges** and provides a detailed introduction to the principles, setup, and operation of CNC (Computer Numerical Control machines. The software is divided into **three chapters**: Mechanical Design, CNC Lathes, and CNC Milling Machines. CNC machines are key equipment in intelligent manufacturing, **controlling the movement of factory tools** and machinery through **pre-programmed computer software**.



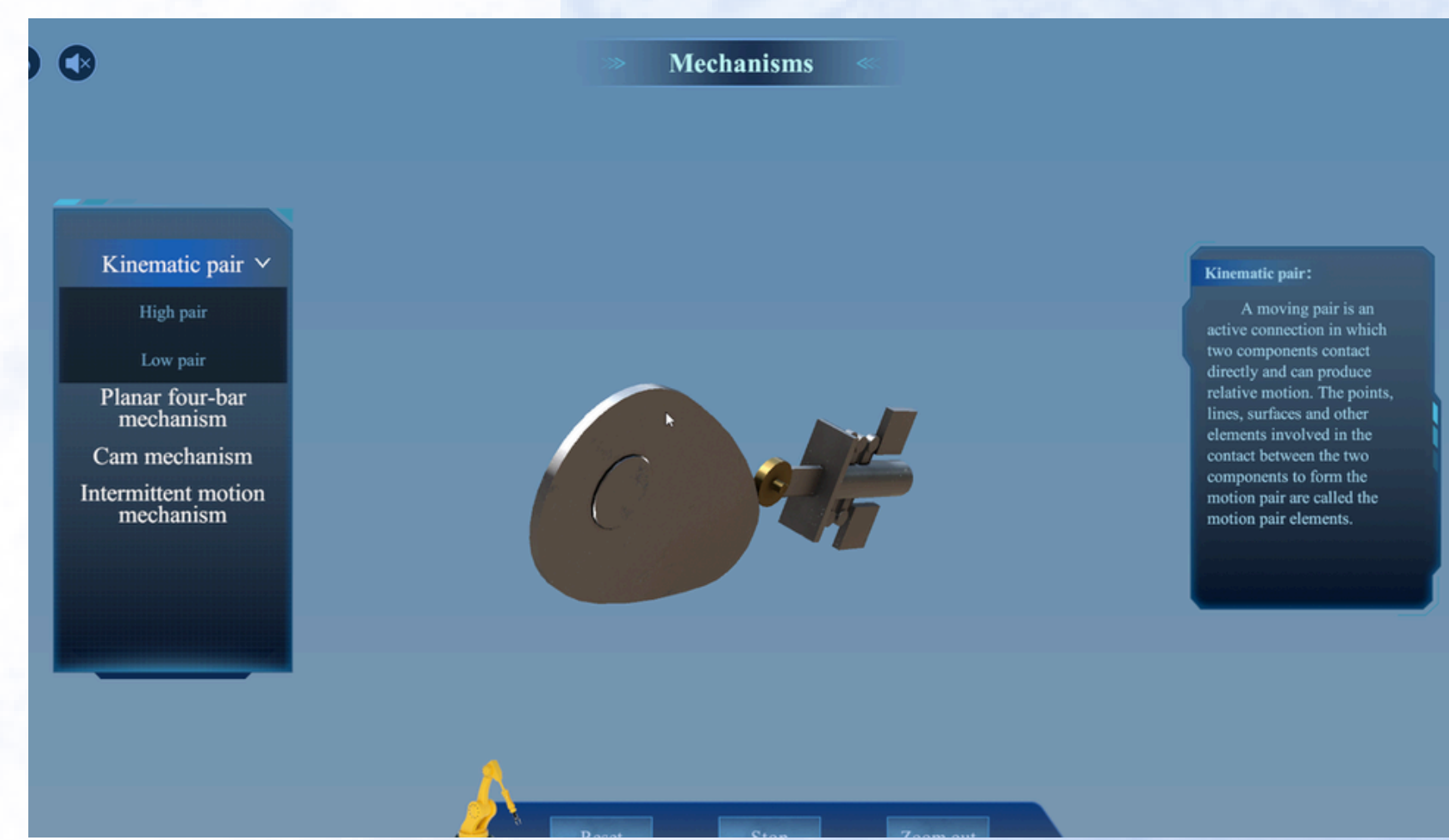
Mechanical design includes mechanical knowledge of connection, mechanism, mechanical transmission, supporting parts, sealing, etc. Click the corresponding module button to enter the module.



The software **includes three modules**: machinery, CNC and assessment. Click the mechanical button to enter the modification module for learning and **practical training**.



The CNC milling machine module includes four contents: machine tool structure, practical training operation, **fault maintenance, and disassembly and installation**.



The mechanism includes motion pair, plane four-bar mechanism, cam mechanism, intermittent motion mechanism and other institutions.

Highlights

- Covers **5 core areas** like connections, mechanisms, transmissions, supports, and seals, all supported by interactive 3D models.
- Allows users to click, drag, zoom, view explosions, and adjust transparency for multi-angle observation and deeper understanding of mechanical structures.
- Offers practical training on lathes and milling machines, including structure familiarization, operational drills, fault maintenance, and disassembly/assembly. The virtual **fault simulation** enhances troubleshooting and **problem-solving skills**.
- Utilizes VR technology to **reduce training costs and risks** while significantly improving learning efficiency and safety for students and instructors.
- Equipped with the leading Desktop, All-In-One Virtual Holographic Interactive Desktop, providing enhanced operational experience and advanced presentation effects.

Functionalities

Modules	Component
Connections	Includes key connection, pin connection, thread connection, coupling and other connection mechanical principle learning.
Mechanisms	Includes motion pair, plane four-bar mechanism, cam mechanism, intermittent motion mechanism and other institutions.
Mechanical Transmission	includes belt transmission, chain transmission, gear transmission, gear transmission, fixed shaft wheel system, reducer and other transmission mechanical principle learning
Supporting Parts	Include shaft, sliding bearing, rolling bearing and other mechanical knowledge learning.
Seal	Contains two contents of static seal and dynamic seal for learning.