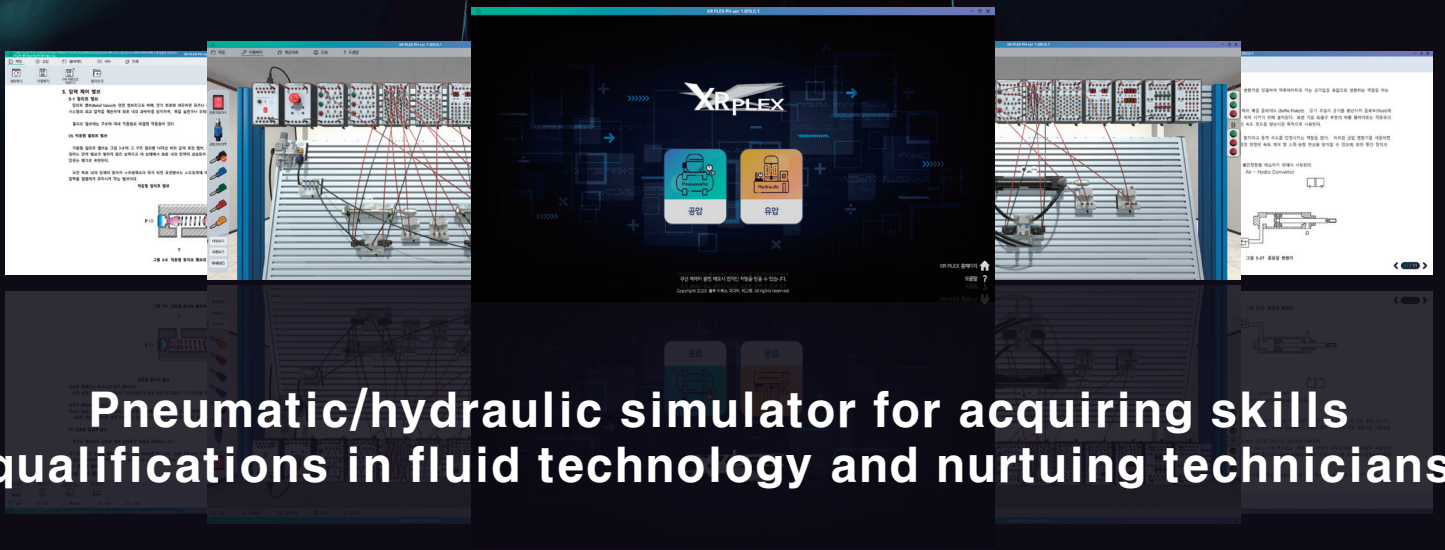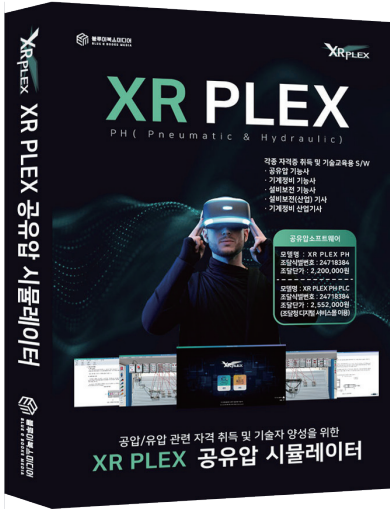# XR PLEX

PH(Pneumatic & Hydraulic)

**Pneumatic/hydraulic simulator for acquiring skills
qualifications in fluid technology and nurtuing technicians**

XR PLEX Pneumatics/Hydraulics Training

This is a simulation software that allows you to learn pneumatic/hydraulic circuits and wiring practices for qualification acquisition face-to-face/non-face-to-face.

01 It provides an effective practice assistant role with the same environment and practice method as the actual equipments.

02 This is a simulation software that allows learners to wire and simulate circuits by arranging pneumatic /hydraulic parts made with 3D technology.
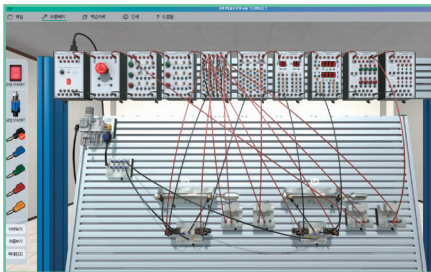
03 Through the course of simulation, it is possible to understand the relevant parts and operation circuit diagram such as flow rate, and the users can obtain various types of knowledge and experiences in need.
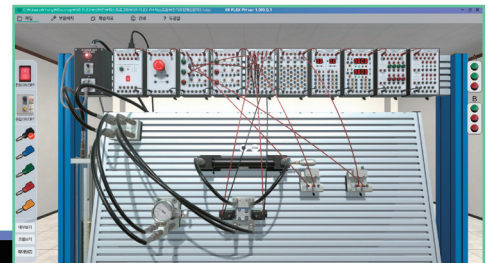
04 Virtual simulation through the PC makes it possible to do practices in a untact manner or a face-to-face manner.
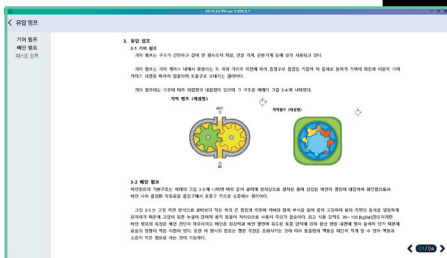
XR PLEX Main screen settings

Pneumatic practices
You can freely arrange pneumatic and electro-pneumatic circuits and check the configured circuits through simulation.
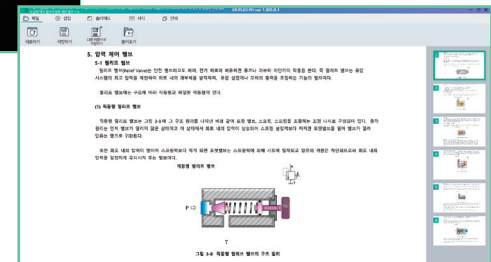
Hydraulic practices
Circuits for pure water/electro-hydraulic circuits can be configured freely and driven by simulation.

Theoretical study
Easy to learn about circuits through the library of essential data on basic circuit components.

Learning creation
Learning materials can be easily created in the PowerPoint slide format.

XR PLEX PH

XR PLEX Detailed configuration

Wiring practice function

① Simple and convenient operation method

- Intuitive user interface and usage
- Simple operation that maximizes practice effects

② Practice environment identical to actual equipments

- Provides 3D style components and practice methods that have the same shape and driving method as the actual equipments.

### ③ Varous simulation function

- Pneumatic/electro-pneumatic and hydraulic and electro-hydraulic practices are available.

④ 3D parts library

- More than 60 types of virtual components are provided in the 3D format which makes it identical to the real life components.
- It is possible to practice wiring that is the same as the actual part wiring method.

<Details of supplied components>

Pneumatics		Hydraulics	
Direction control (switch)	: 5 types	Pressure control	: 7 types
Direction control (roller lever)	: 4 types	Flow rate control	: 8 types
Direction control (pneumatic operation)	: 8 types	Direction control (basic type)	: 13 types
Direction control (solenoid)	: 7 types	Direction control (solenoid)	: 12 types
Pressure/flow control	: 4 types	Actuator	: 5 types
Actuator	: 9 types	Sensor	: 12 types
Sensor	: 11 types	Auxiliary devices	: 4 types
Electrical control module	: 9 types	Electrical control module	: 9 types
Auxiliary devices	: 6 types		

Pneumatics

Hydraulics
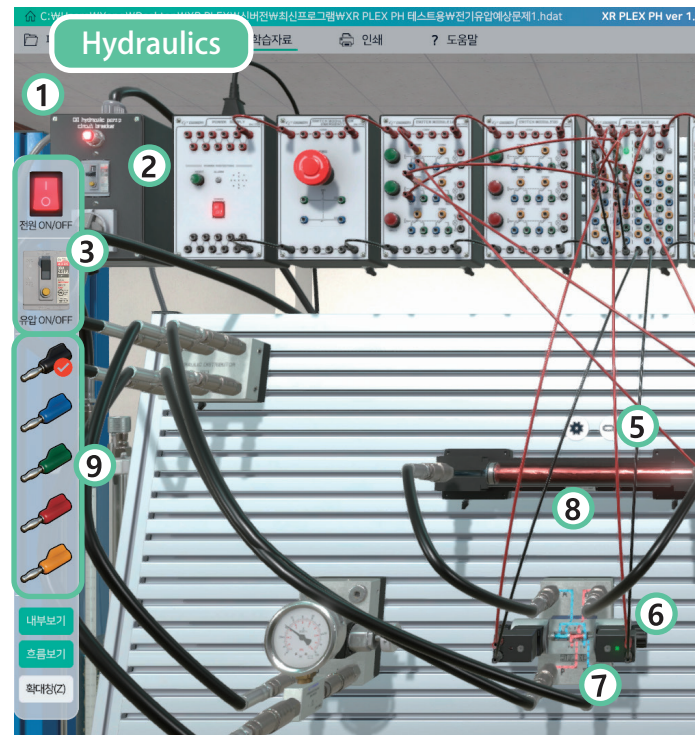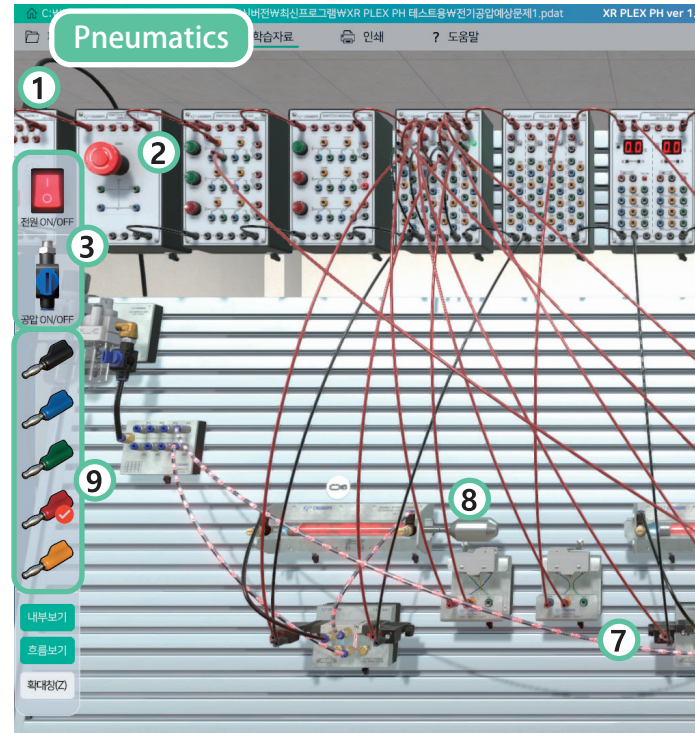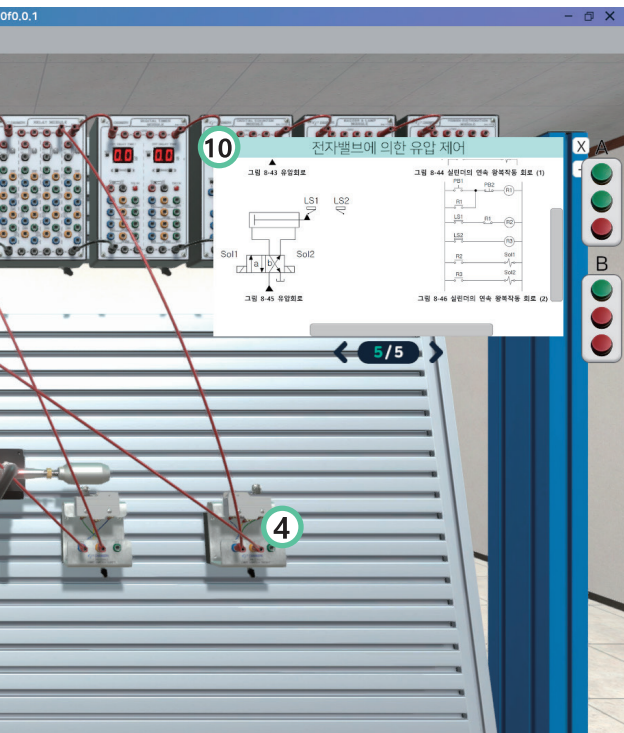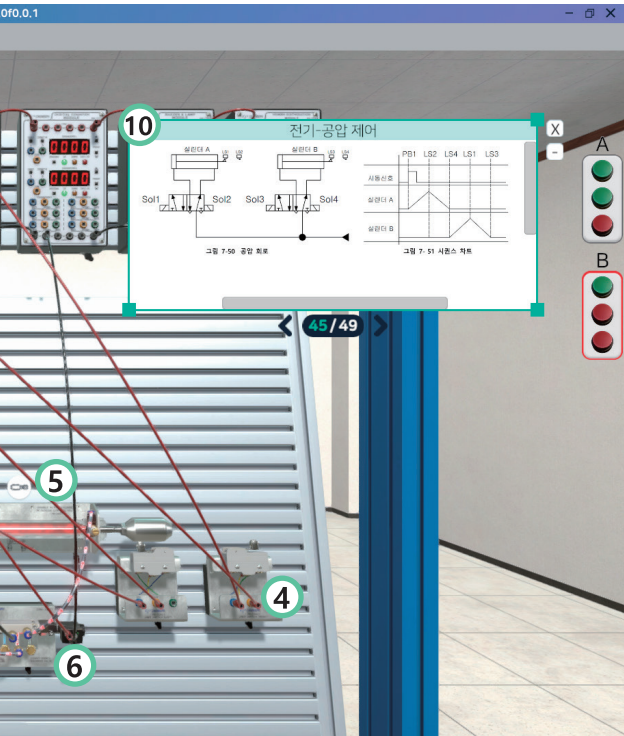
⑤ Detailed adjustment/operation function

- You can practice with the same operation as operating with actual parts. (flow control and manual control)

⑥ Inside viewing function for parts

- With the inside viewing function, you can check cross-section parts, and internal spool operation and flow.

⑦ Flow display function

- Through the flow view function, you can check the flow according to the operation of components and the flow direction of the pipes.

⑧ Pressure display function

- Through color classification according to pressure (blue: exhaust, red: input), you can understand the operation principle according to pressure.

⑨ Convenient wiring and piping connection

- Wiring: Wiring connections can be done by simply clicking the terminal block. You can change it to any color you like.
- Piping: You can easily do piping connections by clicking on port to port.
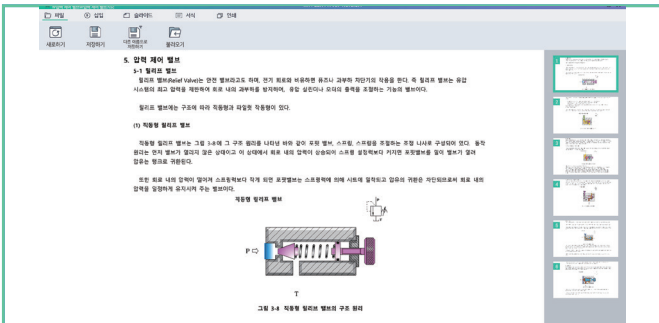
⑩ Study materials import function

- You can practice by checking the desired learning materials and images through a separate window.
- Free size or position adjustment and thumb-through-the pages function

XR PLEX Detailed configuration

Theoretical learning function

- **Directly produce lecture materials necessary in slide format**
- **Can insert images, videos, sounds, texts or animation effects and create educational materials for learning and practice.**
- **It is possible to create materials using existing educational materials and circuits.**

**Slide method / Insertion of images and texts**
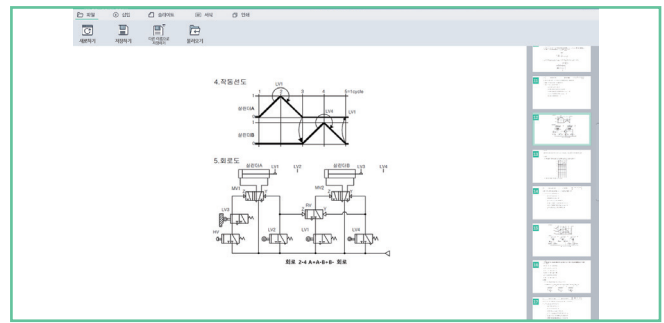
Existing mateirals for learning creation

Theoretical learning function

- **We provide study materials for learning pneumatics and hydraulics from the basics to the advanced.**
- **You can learn pneumatics and hydraulics, and electro-pneumatics and electro-hydraulics through various types of circuits.**
- **Basic study materials**

  ① **Pneumatic and electro pneumtaic materials: 15 types**
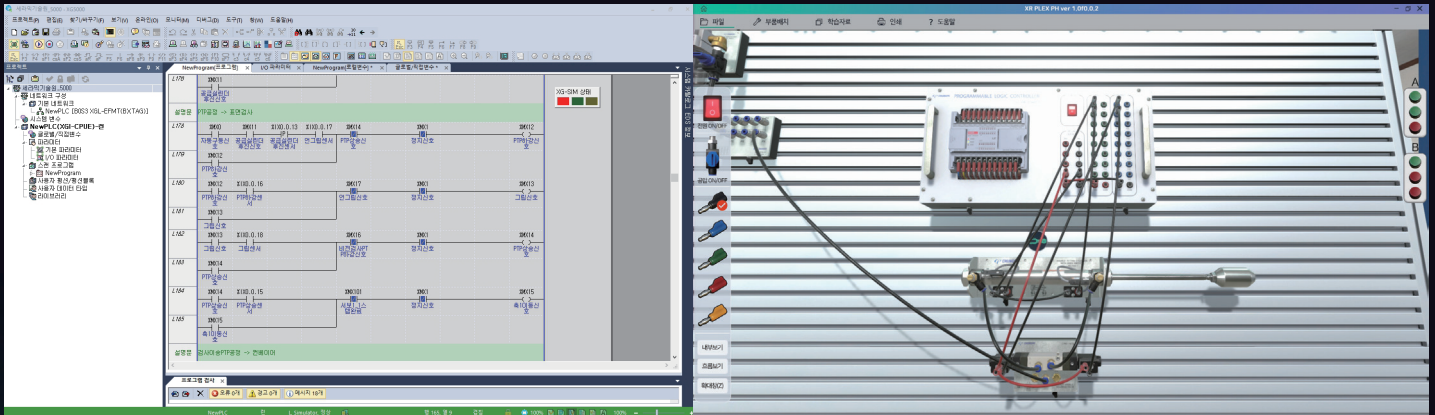 ② **Hydraulic and electro hydraulic materials: 29 types**
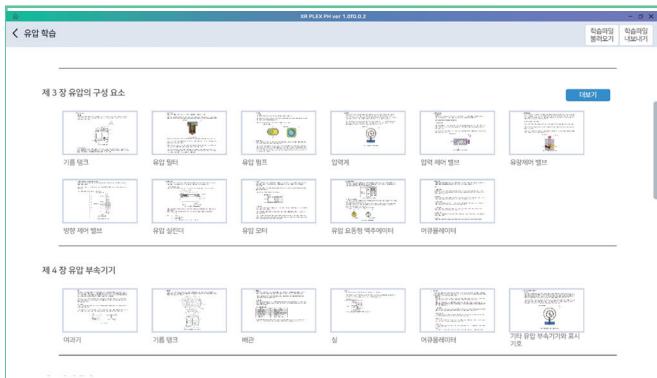
Various types of theoretical studies
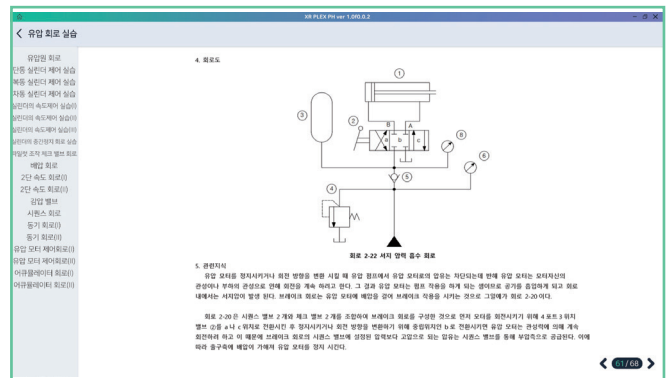
Pneumatic and electro-pneumatic circuits and hydraulic and electro-hydraulic circuits for practices

XR PLEX PLC function (option)

*Real-time PLC practices are possible using this optional simulation function.
*We provide PLCs from various manufacturers such as LSIS (XBC, XEC) and Mitsubishi (EX-3U).

*Updates are scheduled continuously.

XR PLEX Recommended specifications

Software environment for installation

OS	Window 7 or later
CPU	Intel i5 6th generation or later
HDD	2GB or more
RAM	8GB or more
Graphics card	NVIDIA GTX 660 or higher

VR system environment

OS	Window 10
CPU	Intel 5th Gen i5 or higher
RAM	8GB or more
Graphics card	NVIDIA GTX 1060 or later
Video Output	DisplayPortTM 1.2/Mini DisplayPort

Partner

www.chungpaemt.co.kr