



Aircraft Hydraulic System Trainer provides students with practical experience needed to understand the function, to get to know components and to improve troubleshooting skills. Fully functional hydraulic system designed so that every component can be disassembled, reassembled and functionally tested.

All the components mounted on the trainer are operational, removable and they can be reinstalled.

**NOTE:** EICAS/ECAM screen is located on the hydraulic landing gear trainer or main unit.

## Specifications

### Features

- Understanding fundamentals of aircraft hydraulic system and its components.
- Hydraulic control solenoids
  - Flap
  - Speed Brake
  - Landing Gear
  - Landing Gear Door
- System is powered by Hydraulics Pump, Hand Pump or Accumulator
- Some of Trainer Functions
  - Hydraulic power functions
  - Accumulator functions
  - Emer hand pump functions
  - Pumps fault functions
  - ECAM functions
  - Single chime functions
  - Master caution functions
  - Master warning functions
  - Check valves functions
- Some of Trainer Processes
  - Hydraulic system functional test process
  - Hydraulic system leak test process
  - Emergency system test process
  - Automatic accumulator filling process
- Some of Trainer Cases
  - Low level
  - Over heat
  - Low air pressure

- Engine fire
- System Leak
- All wires should be coded and labeled for troubleshooting.
- The hardware used in the trainer is mounted to the frame in a way that it can be easily observable by students.
- Instructor's panel for Fault Insertion
- The system mounted on a metal/aluminum mobile stand.
- Metal/aluminum frame with 4 wheels. 2 of 4 wheels are lockable.
- Training video for teachers
- Delivered fully assembled tested and ready to operate
- Colored Ultraviolet printing method on aluminum composite panel

## Components

- Control Panel
  - Press to test illuminated Master warning button
  - Press to test illuminated Master caution button
  - Aural warning horn
  - Fire warn indicator
  - Hydraulic pump control illuminated pushbutton
  - Leak measurement valve control illuminated pushbutton
  - Hydraulic pump fault indicator
  - Three(3) units Aircraft circuit breaker
  - Guarded master power sw
- 10 inch touchable screen ECAM
  - Landing gear position (real time)
    - Up locked
    - Transit
    - Down locked
  - Landing door position
  - HYD tank status
    - Temp
    - Pressure
    - Level
  - Pressure gauge
  - Flap position
  - Landing gear system control
  - Speed brake position
- Aircraft circuit breaker lockout
- Electrically Driven Hydraulic Pump

- Hydraulics Filter
- Landing gear control solenoid
- Landing gear door control solenoid
- Flap control solenoid
- Speed Brake control solenoid
- Emergency Hand Pump
- Hydraulic Fluid Reservoir
- Hydraulic Accumulator with automatic filling
- Hydraulic System analog pressure gauge (8 pieces)
- Sensors
  - Tank air pressure sensor
  - Tank temperature sensor
  - Tank level sensor
  - Hydraulic system pressure sensor
- Drain Valve
- Check valve
- LAN output
- Fault & instructor port
- Lockable Fault & instructor box
- Terminals

## Documentation

- User's Manual
- Study Guide
- Instructor's Guide
- Components Diagrams

## Power Specs

- Electrical box
- Residual current device
- Emergency Button
- Energy Signal Lamp
- 110 VAC 60 Hz or 220-240 VAC 50 Hz