



# Aircraft Hydraulic Landing Gear System Trainer (Module)

Model HYD-100C



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HYD-100C Landing Gear Module for offers effective hands-on training for aircraft landing gear system maintenance trainees.

It assures that technicians are trained to maintain the landing gear system in the best way possible and in accordance with safety standards. It displays the landing gear mechanism as found in actual aircraft. This trainer is designed to represent a landing gear system. It contains all components and assemblies of an actual hydraulic landing gear system.

Model HYD – 100 C features complete wheel and tire assembly with hydraulic brake system, including master cylinder and brake pedal. The control unit includes control throttles for landing gear and hydraulic flap operation. Indicators demonstrate show up, down, and in-transition conditions. A throttle warning horn is also mounted on the control panel.

This model comes mounted on a mobile stand to provide a clear view from all directions.

This trainer work with UHT-100A Aircraft Hydraulic System Trainer (Main Unit). They must be ordered together.

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

## Specifications

### Features

- Hydraulic Landing Gear System
- Hydraulic Flap System
- Hydraulic Speed Brake System
- Hydraulic Brake System
- Aircraft Wheel System
- Hydraulic System Control
- Lower ECAM/EICAS
- Hydraulic Landing Gear Trainer able to display the landing gear operating system of a regular aircraft.
- Digital sensor data and switch states used in the set.
- Throttle lever with associated components complete the warning circuit of gear up warning horn.
- the accumulator and the hand pump be able to control the landing gear.
- Wirings on the trainer are connected via terminals.
- Wires should have clear identification labels for each wire.
- All wires should be coded and labeled for troubleshooting.
- 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
  
- Computer Control Software (CCS)
  - Trainer monitored
  - Fault panel control from software
  - All data shown in the software
  - Flap is controlled via the software. (Up / Down)
  - Landing gear is controlled via the software. (Up / Down)

## Components

- Hydraulically Operated Landing Gear Mechanism
- Drain Valve
- Hydraulic Actuating Cylinder for Landing gear
- Hydraulic Actuating Cylinder for Landing gear door
- Check valve
- Hydraulic System analog pressure gauge
- Hydraulic System Pressure sender
- Brake pressure gauge
- Hydraulic Sequencing System and operate
- Hydraulic Flap System
- Hydraulic flap Actuating
- Hydraulic Speed brake System
- Hydraulic Speed brake Actuating
- Flap Position Sensors
- Flap control switch
- Mock-up Flap
- Mock-up Speed brake
- Aircraft Tire Assembly (6 or 8 inch)
- Aircraft Tire
- Aircraft Wheel
- Aircraft Brake disk
- Aircraft Brake Plate
- Aircraft Brake caliber
- Hydraulic Brake Components
- Aircraft Brake master cylinder
- Park brake
- Brake Fluid Reservoir
- Aircraft Brake Pedal
- Brake Hose

- Throttle Lever (TQ)
- Control Panel
  - Circuit breakers
  - Aircraft Circuit breaker lockout
  - Lockable Landing gear control lever
  - Power Panel
  - Aircraft Master Caution and aural warning Horn Panel
  - Aircraft Landing gear control panel
  - Landing gear status lamp
  - Test button
  - Lockable Flap control panel/lever (pullable )
  - Lockable speed brake control panel/lever ( push able )
  - Landing Gear door control lamp
  - Energy Lamp
- Lower EICAS or ECAM
  - Landing gear position
  - Landing door position
  - Pressure gauge
  - Sensors status
  - Landing gear system control
  - Throttle Lever Position
  - Speed brake position
- Other
  - 10 cotters for aircraft tire
  - 1 Analog tire pressure gauge for aircraft tire

## Documentation

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

## Power Specs

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