

# MECHANICAL ENGINE DIAGNOSIS.

Ref. : DIAG - MECA. DV



## REAL ENGINE + PEDAGOGICAL SOFTWARE = IDEAL LINK BETWEEN REAL SYSTEM AND DIGITAL MODEL



Product intended for:

- Training Centers
- Mechanical schools
- Maintenance and repair schools
- Higher education institutes



Real engine mode has options to set mechanical failures by default:

- Compression gauge
- Leak analyser
- Angle coder : Crankshaft / Camshaft



This didactical stand may be used for other disciplinary subjects:

- Mathematics
- Physics
- Electrical technology
- Technical engineering



Engine stand is equipped with :

- PC
- HD screen 16:9
- Battery + charger
- Professional tools :
  - Ratchet + square socket
  - Stop pins



Related pedagogical activities are:

- Overall vehicle skills
- Routine maintenance
- Measurements and controls
- Diagnostics



Discovery of the system to the diagnosis by privileging measurement



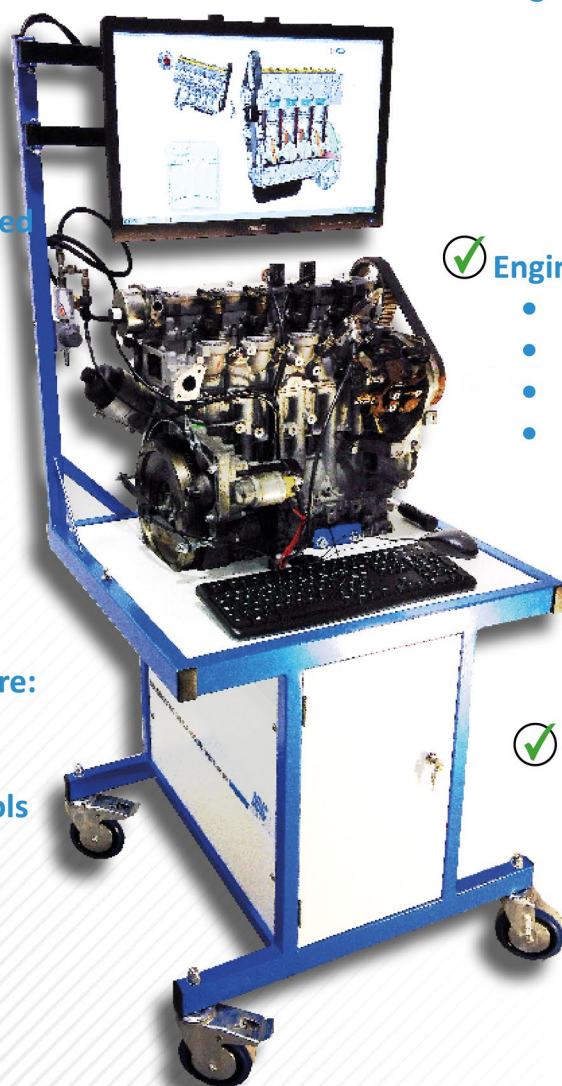
Digital 3D model included



Practical works provided and adapted to the training levels



All inclusive service, shipping, installation and training





# MECHANICAL ENGINE DIAGNOSIS.

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DIAG - MECA

## Permanent mechanical breakdowns:

- Defective ring
- Contorted inlet valve
- Contorted connecting rod

## Computer facilities:

PC  
Software Installed and made by DIDAC BDH  
HD screen 16:9

## DV ENGINE :

Fonctionnal, Secure, Driven by the starter

## Integrated measurement tools :

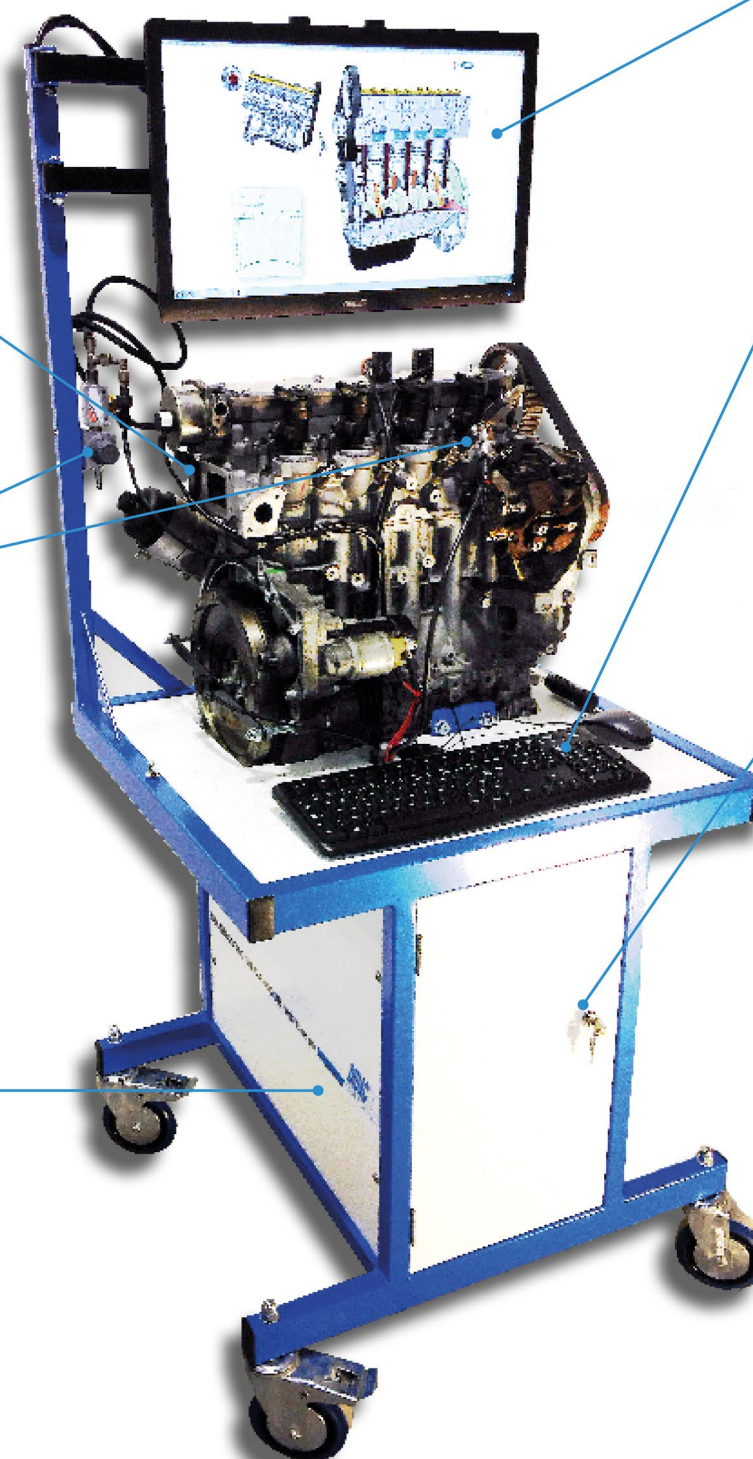
- Leak analyser
- Compression gauge with quick connectors installed instead of the glow plug.

## 12V battery:

Smart charger integrated in the lower part

Warranty : 1 year

Shipping, instalation by DIDAC BDH



## Professional tools stored in the lower part (locked)

- Ratchet + square socket to drive manually the engine
- Cranck shaft / cam shaft Stop pins

## Chassis :

movable on casters (2 braked)  
Usable in classroom and workshop

## Sizes :

L : 700 mm P : 660 mm H : 1 700 mm

Weight : 250 Kg

## Energy :

Power supply : 220 V 50 Hz



This pedagogical modul promotes learning and training of practical skills in the school program «Vehicle maintenance», student will be able to :

- Communicate internal and with the third parties,
- Diagnose a mechanical malfunction,
- Perform the vehicle gauges,
- Control and the test vehicle performances

### PEDAGOGICAL ACTIVITIES

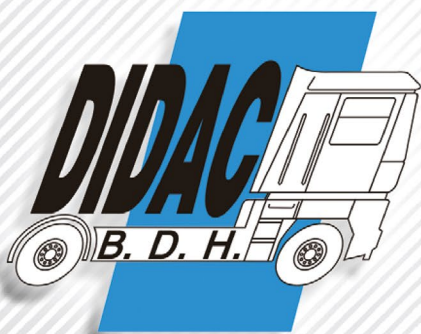
#### TOPICS:

- Engine assembly :
  - Connecting rod assembly/ T-belt / Top dead center position,
- Timing diagram,
- Strokes matching,
- Valve lift + hydraulic valve lifters .
- Demounting / mounting of the belt + valve timing .
- Compression measurement,
- Leak analysis.
- Identification of the faulty component.

TRUCKS

CARS

AGRICULTURAL VEHICLES



#### WITH DIDAC BDH :

Complete didactical set provided.  
Learning assistance coaching.  
All-inclusive service.

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