

Product Information Sheet

4-Cylinder HGV Diesel Engine (Common Rail) Trainer



The image shown is for illustrative purposes only – actual product may vary due to product enhancement.

This trainer provides the instructor with a complete working 4-cylinder heavy vehicle diesel engine with a Bosch EDC engine management system and high-pressure common rail fuel injection system. A 6-cylinder version is also available.

The trainer is mounted on a moveable, heavy-duty steel frame. The system comprises all the elements that control the air-fuel ratio, fuel injection, and exhaust emissions, together with the Bosch ECU and all the sensors and actuators associated with the control system.

The system has manually-inserted faults that allow the instructor to demonstrate troubleshooting techniques on a fully operational engine. This resource is supplied with a manual containing practical tasks and activities.

The trainer can also be used in conjunction with our cloud-based software, which offers online interactive presentations, investigations, and assessments that support the practical activities carried out using this resource.

Trainer enables demonstrations of the following:

- The position and mounting of all engine components
- Engine management system fundamentals
- The electronic control unit (ECU)
- Sensor components
- Actuator components
- Pressurized fuel systems
- Fuel injection components
- Fault diagnosis

Trainer System Includes:

- Fully operational HGV engine
- Accelerator pedal
- Mesh guard for rotating parts
- Ten fault insertion switches
- Pin out facility for easy testing of sensors

Items Included:

- Trainer and practical activity manual

Other Items Required:

- Fuel
- Automotive workshop tools
- Diagnostic tools
- Batteries (2 x 12V 50Ah)

General Information:

Trainer Dimensions (W x D x H):
1650 x 1800 x 1650 mm / 65 x 71 x 65 inches

Packed Volume: Approx. 4.98m³ / 176ft³

Packed Weight: Approx. 850kg / 1875lb

Packed Dimensions (W x D x H):

2320 x 1410 x 1540 mm / 92 x 56 x 61 inches

Order Code: 776-01

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