

## Short Description

Rental of motor test bench cells with capacities from 45 kW to 350 kW and with the following equipment:

- Equipment for water and oil circuit adaptation
- Equipment for temperature control
- Equipment for measuring fuel consumption
- Pollutant emission measurement equipment and combustion diagnosis (optional)

## Deliverable

Facility rental

Characterization of raw materials to be used (lubricant or fuels) (Optional)

Injector Analysis (Optional)

## Benefits

- Complete rental of engine test cell for the evaluation of the performance of new fuels or lubricants (bases and additives)
- Possibility of evaluating and quantifying improvements obtained in the development of fuel and lubricant products and contribution of evidence
- Characterization of engine performance and / or their components, such as after-treatment systems, heat exchangers, etc.



Engine test bed image

## Differential Features

- We can perform the following differential services that can complete the studies carried out on the engine.
- Formulation of fuels and lubricants tailored to carry out the tests and their subsequent study (Optional)
- Analysis of new and used oils and fuels (Optional)
- Confidentiality of information related to operations



Engine test bed image



## Requirements

- Establishment of a contractual document that regulates the obligations and responsibilities of each of the parties, as well as the legal and security requirements

## Limitations

- Repsol will not carry out any assembly / disassembly operations inside the cell, nor will it schedule or carry out the tests, which will be carried out by the customer.

## The Product in Depth

Rental of engine test bench cells with capacities from 45 kW to 350 kW and with the following equipment:

- Equipment for water and oil circuit adaptation
- Equipment for temperature control (between 10°C to 40°C)
- Equipment for fuel measurement

Optional:

- Gaseous / particulate emission measurement equipment (mass, number and size distribution)
- Chamber pressure measurement and combustion analysis & diagnosis equipment
- Vehicle / Engine Diagnostic Kits
- Battery emulator equipment

## Some Use Cases

- Cells used to evaluate the performance of new Repsol fuels and lubricants
- Cells used to evaluate the behavior of fuel additives on the engine
- Cells used for the evaluation of the durability of lubricating oils

