

# ENGINES



This is called a block.

Is the engine's structure

It can be made of iron, aluminum and different alloys.



As you can see, above the block is crankshaft

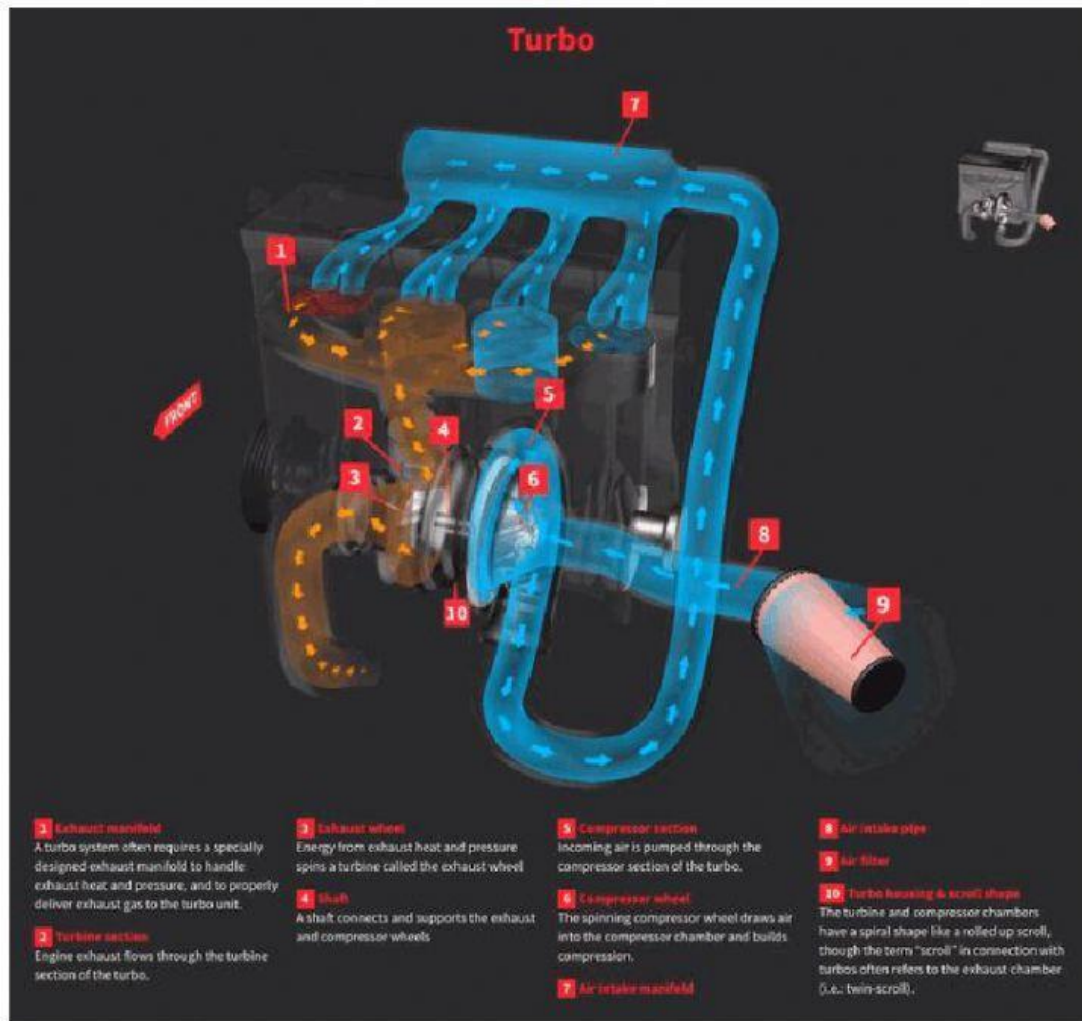
The crankshaft is made of iron.

Its function is to regulate rods and pistons movements.



They are called pistons and connecting rods.

They always work together. Their function is to admit the air by getting the piston down and then compress it by coming up again. This is called piston upper and down dead point (UDDP).



The image shows a turbo.

It's made of foundry metal .

Its function is to gain more power by compressing the air.

First, the exhaust side of the turbo, admits the air from the exhaust manifold and makes the turbine spin. At the same time, the axis makes intake side spin and gives pressure to the intake manifold





This picture shows a twin turbo engine.

it has a similar function as the one turbo engine but has an extra turbo.

This system was invented to improve the air performance.

## QUESTIONS:

- 1) What is a block ?
- 2) What is a crankshaft ?
- 3) Why are the block and the crankshaft important?
- 4) What do pistons do ?
- 5) What do connecting rods do?
- 6) How does the turbo work?
- 7) How does a twin turbo system work?