

## COMPRESSED AIR PUMP

### REFERENCE : ISIPOMPE



*Non contractual photo*

**SERVICE :**

This device is used to inflate vehicle tires as well as sporting goods with digital display of pressure and rechargeable battery.

#### Technical specifications :

##### Proposed TP Themes :

- Expression of need
- Functional analysis
- Measuring the performance of the pump
- Study of links
- Using a 3D modeler to represent a simple form
- Drawing a part using a 3D modeler

##### Theme of the mini-project

Conduct a comparative study of the pump with another very low cost pump

##### Composition of the briefcase n ° 1 :

- A disassembled pump
- Tools needed to assemble and dismantle the pump

##### Composition of the briefcase n ° 2 :

- Pump in "open" operation
- An accumulator with a capacity of 1 liter
- A pressure sensor with PC acquisition card
- Tools needed for assembly and disassembly
- A different pump to realize the mini project
- CD Rom with educational and technical resources as well as 3D drawings files