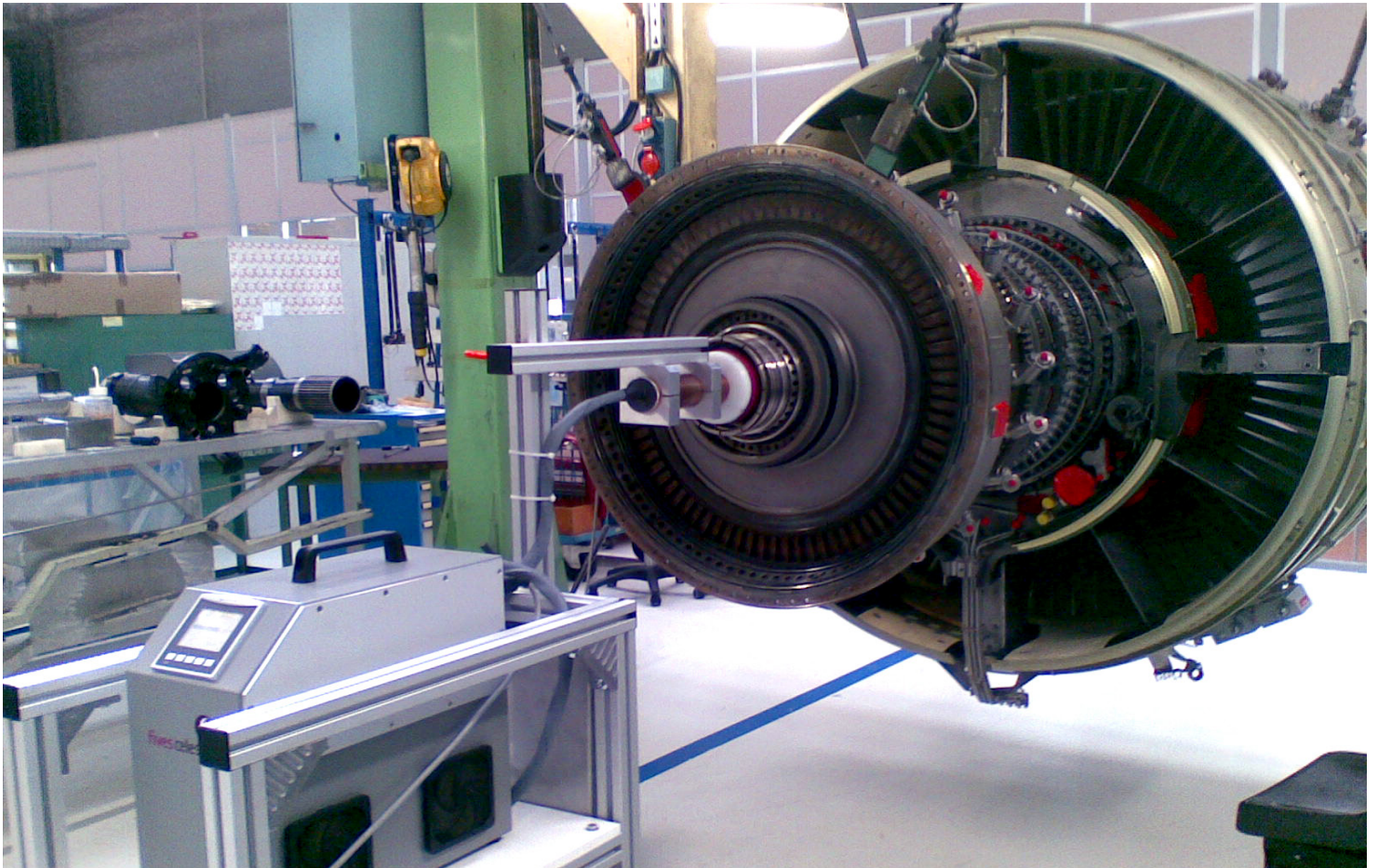


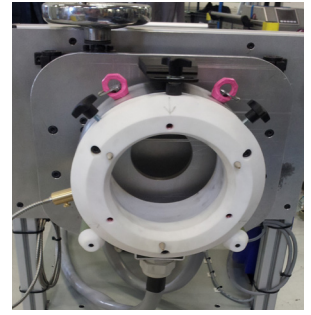
# Air-cooled shrink fitting solutions



The mobility without compromising the quality

- Compact
- Mobile equipment
- Air-cooled
- Suitable for single phase power supply

**Air-cooled Induction shrink fitting solutions** developed by Fives are compliant with aerospace industry quality standards: they provide an accurate heating and preserve the assembling areas from contaminants (dust) carryover .



The operation consist in expanding slightly the internal diamater of the female part to allow the mounting of the male part. Then after the cooling phase, the two pieces are strongly gathered.

### Advantages of the Fives solution

- Mobile generator, cooled by air,
- Protection of the assembling areas: no burnt residues / no overheating phenomenon)
- Localized heating: induction ensures heating with an accurate monitoring of the temperature and covered area.

### Operating modes

2 types of operation are possible:



External shrink operation



Internal shrink operation

### Equipment Description

It is mobile, fed by a single-phased power-supply and can be proposed either on trolley or in stationary position.

It is composed of:

- A MOS transistor generator Type Celes MS3
- Bulit-in PLC providing 10 programmable recipes
- A customized inductor made with Litz wires to match the dimensions of the piece.

### Applications

Air-cooled shrink fitting solutions can be used for the following fitting operations, on assembly lines or in maintenance workshops:

- Gear wheels
- Reigrigerating compressors covers,
- Rotating parts for turbines, engines.
- Morse tapers for machine-tools.