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## Infrared heater - Item 3546

### Description

So far, in the automotive industry, the use of structural adhesives for fitting parts of various materials that make up the chassis and the body of a vehicle has led to long and hard removal interventions thus entailing risks of possible damages of other contiguous parts. However, the **INFRARED HEATER 3546** makes the whole process **EASY, FAST** and **CHEAP**.

Through the heater **3546**, today **TECNA** introduces an **innovative removing process by means of infrared heating**. It is a fast and clean process. It does not affect the parts in contact with the damaged part and it **drastically reduces the time** required to restore the vehicle.

**TECNA** has chosen to use the infrared radiation to ensure a **safe process for the user's health**; no electromagnetic fields are generated, as in the case of traditional induction heaters.

In addition, the peculiar **water-cooling** of the tool allows **using it comfortably even for prolonged periods** without involving overheating issues. Unlike induction heating, the use of infrared radiation allows **operating on any type of material**:

- Steel
- Aluminium
- Carbon fiber
- Plastic

The heat generated by the infrared source **3546** is also used in the inverse process, meaning **the bonding** of the new part, thus **allowing to greatly reduce the time** of polymerization of the glue, and therefore the vehicle repair.

#### AREAS OF USE OF THE INFRARED HEATER

- Automotive, bicycle and motorcycle industry;
- Repair after-market area, body shops, damaged body shells and chassis, customizations;
- Elaboration of racing cars;
- Elaboration of recreational vehicles;
- Parts and equipment made out of technopolymer and composite materials (Kevlar, carbon fiber, fiberglass);
- Boating, wood, plastic and components industry involving joints glued on non-homogeneous materials (metals, alloys, ceramics, technopolymer);
- Aviation industry;
- Sport items and pieces of equipment.

### Infrared tools

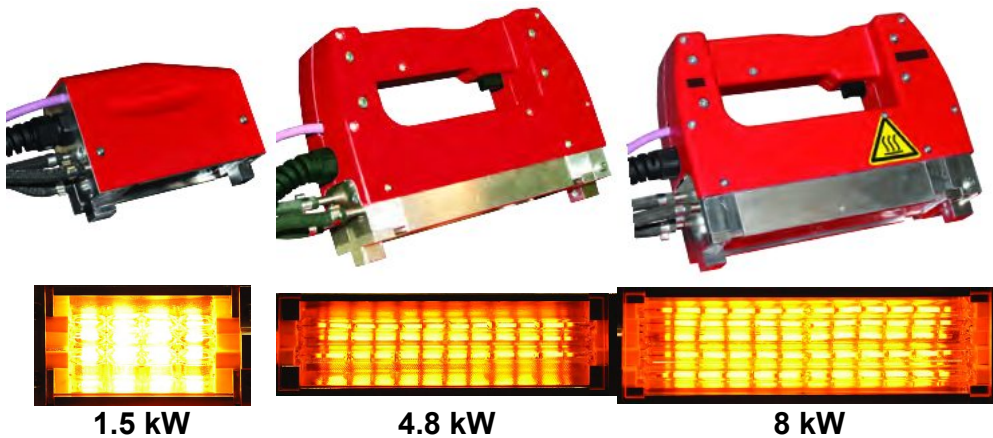
The infrared heater **3546** relies on the focusing of the infrared radiation so as to realize a rapid and localized heating of the adhesive which glues the part to be removed thus enabling an **easy and safe detachment**. The speed of the heating process also allows limiting the diffusion of the heat to other parts connected to that on which one is working thus preventing from altering glues and paints, which do not need to be affected by the repair process.





The heating tool of the **3546** is provided with a **no-contact temperature sensor**, which allows modulating the power of the heating tool to keep the temperature constant.

Portable tools, liquid and air-cooled, having variable shapes and powers to suit specific operating requirements.



## Control unit

The **touch control unit with color display** of the **3546** allows the operator to perform a temperature-controlled heating by setting the temperature that the piece to be heated must reach as well as the power to be delivered during heating. In addition, it enables programming a **heating curve for the polymerization** of the glue in five steps, which can be framed into parameters such as: duration, temperature and heating power.



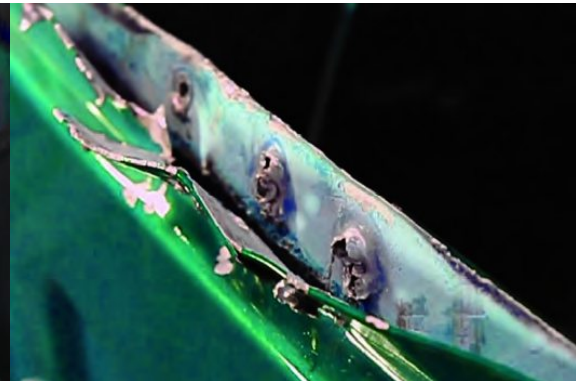
The **3546** is equipped with a **USB interface** for transferring files or upgrades, among which pre-set parameters for the different working modes, thus reducing setup times **for the benefit of productivity**.

### Examples

BEFORE



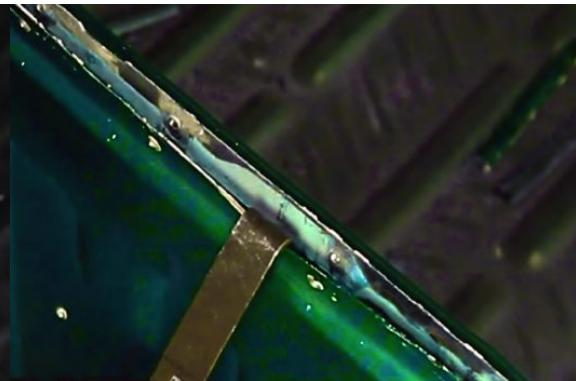
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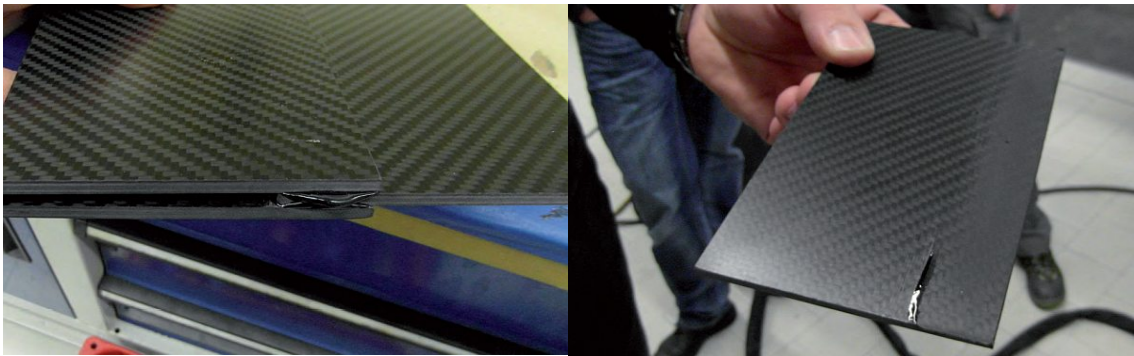
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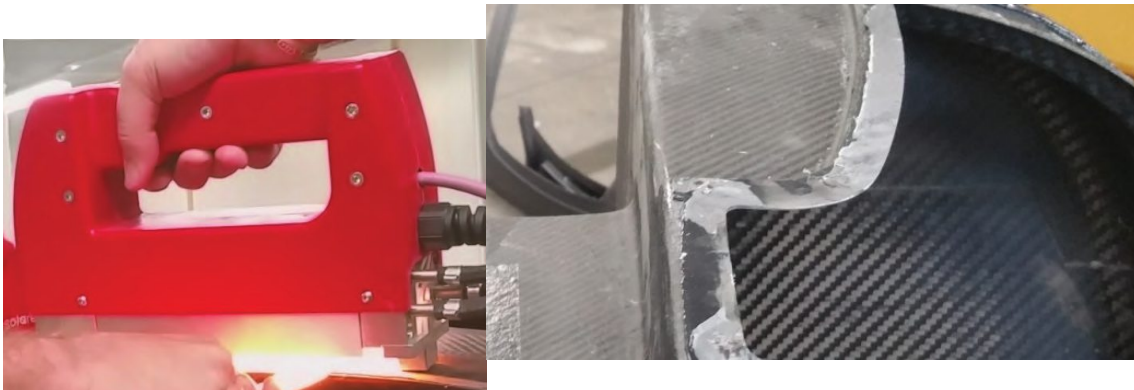
NOW



Split glued layers with mechanical methods and with infrared heater 3546.



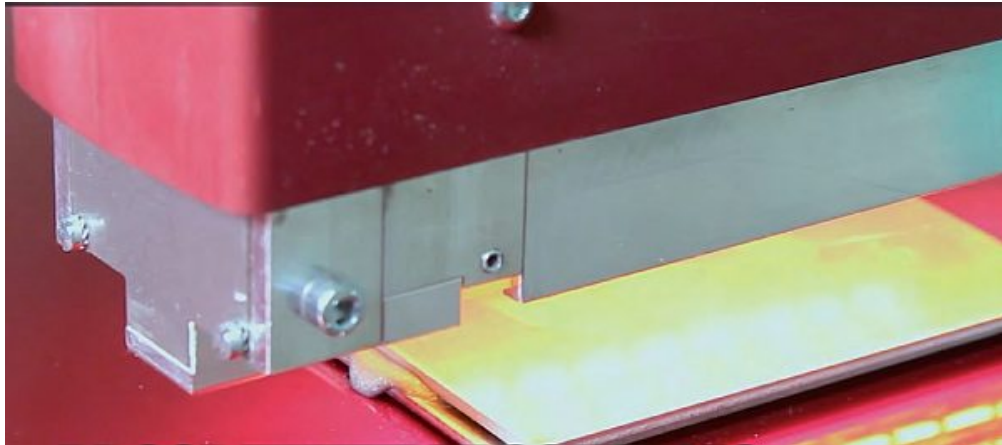
Split, in multiple layers, the glued upper element without affecting the sealing and the bonding entirety of the lower layers.



Split glued layers of non-homogeneous materials, without damaging the single layers.



Remove moisture from the surfaces to be bonded with polyvinyl acetate adhesives.  
 Bring items made out of thermoplastic synthetic material to a plastic state in a localized way.  
 Along their production cycle, these items are meant to be shaped, bent, stretched and deformed permanently.



Speed up the drying or the polymerization process on parts glued with curing adhesives.

## Technical data

### Equipment

Item	3546
Power supply	230V 50Hz 3 phase 400V 50 Hz 3 phase + N
Power output	15 kW
Cooling System	Air
Color touch screen display	TE70
Adjustments	Power, Heating temperature

### Lamp

Power	1.5 kW / 4.8 kW / 8.0 kW
Lamp lifetime	5000 h
Cooling System	Air and Water
Temperature control	Pyrometer
Accessories	Temperature Calibrator Trolley 3461

## Downloads

Available downloads for this product:

Depliant - Item 3546

Specifications subject to change without notice.