

## *TRIAB Infrared System For Automotive Industry*

### *Pre heating of carpet sheets*



**Pre Heat System for carpet sheets  
IRM**

#### **Features:**

- Medium wave twin tube emitters with gold reflector.
- IR Zones divided into independently adjustable and controllable areas, depending on the forming process
- Short cycle time – high throughput
- Support shelf for the carpet sheets
- Temperature control via IR Pyrometer (option)
- Automatic temperature control (option)
- Process control via OP or PC
- Modular cassette system, that can be expanded at a later stage if necessary
- Exhaust system in order to remove vapour coming out of the carpet during pre heating
- Control Cabinet (IP 54) either mounted into the lower part of the system or designed as a stand alone unit

#### **Process description:**

To place the carpet into the floor of the car, it must be put into the shape of the car floor. To do so, medium wave IR emitters heat up the sheet before the forming process.

The sheets will be take from pile and placed on the shelf. After pushing the start bottom the shelf move automatically underneath the IR panel. Pre heat time 3 min.

The shelf will be removed automatically out of the IR module after the time ran out. The sheet will be taken out by hand and placed into the press.

The pre heat is done by medium wave emitters with gold reflector, therefore high efficiency and process stability is guarantied.

The surface temperature of the carpet sheet during pre heat can be controlled by an IR Pyrometer. Therefore the process can be automated in such a way, that the shelf moves directly underneath the press.