



## **MANUAL**

**for module-based heat presses**

**Secabo TC5 MEMBRANE und TC7 MEMBRANE**

Congratulations on your purchase of your Secabo heat press!

In order to work professionally with the machine and start production, please make sure you read this manual carefully.

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*Version 1.0 (21.01.2016)*

# Overview

## Secabo TC5 MEMBRANE and TC7 MEMBRANE module-based membrane heat presses

- Press opens automatically.
- Large differences in height and unevennesses of transfer objects can be compensated.
- When the press is closed, a manometer reliably displays the current contact pressure
- The pressure can be set reproducibly.
- No compressor needed, passive membrane with inflation bulb and a release valve.
- Digital controller for temperature, time and counter.
- Module-based system, components can be easily changed in a few steps.
- Additional mudguard above the heating plate.
- Suitable for all common transfer methods.

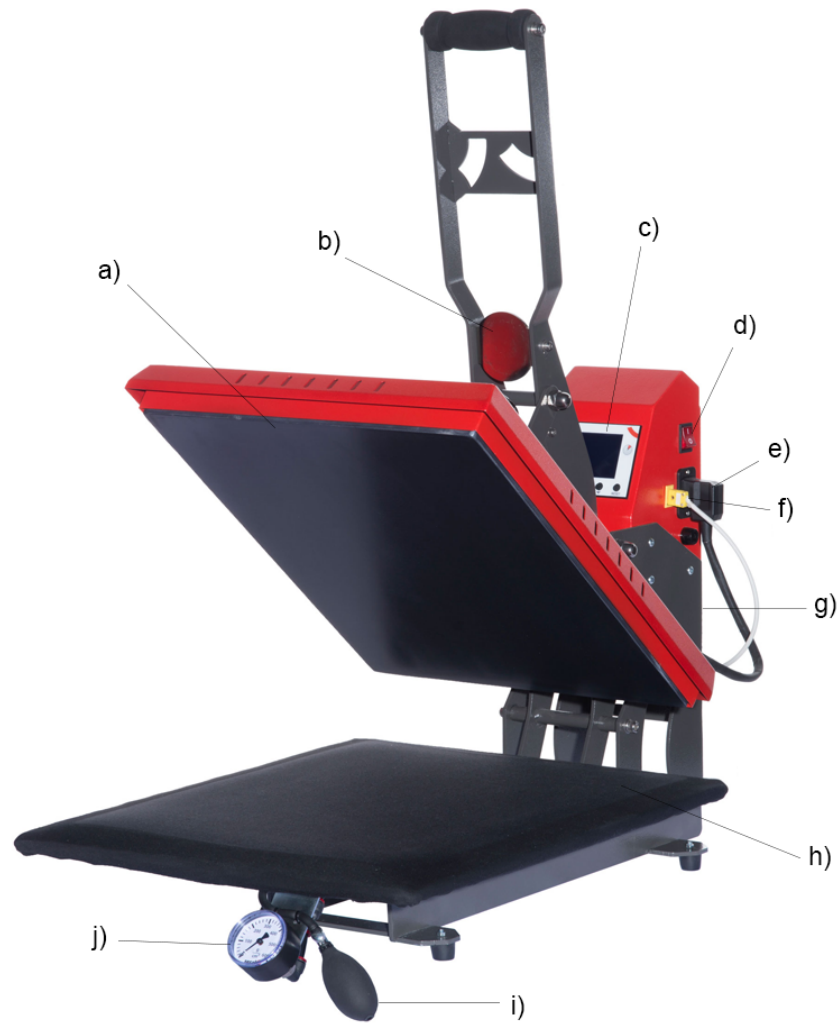
## Safety precautions

Please read these instructions and safety precautions carefully before using your press for the first time!

- Never reach into the heat press with your hands when it is connected to the power supply, particularly when it is switched on and heated up – danger of severe burns!
- Never open the housing or attempt to modify the machine yourself.
- In case you are requested by the Secabo customer support to open the heating plate cover, please make sure you are wearing respiratory protection and only touch the contained insulation wool with gloves. Any disposal of the wool must be contained in a closed bag.
- Ensure that liquids and metal objects do not get into the inside of the heat press.
- Do not inflate the membrane too much. Even the membrane plate is blown-up there should be no increased physical effort to close the press.
- Ensure that the power socket used is grounded. Note that it is only permissible to operate a heat press from a power socket protected by a ground fault protection switch..
- Disconnect machine from power outlet when not in use!
- Never operate the heat press within the reach of children and never leave the machine unsupervised when switched on.
- Ensure that the machine is used only in dry rooms.

**If you cannot observe one or more of the safety precautions above, or if you are not sure whether all points are satisfied, please contact our Technical Support Department.**

## Machine description



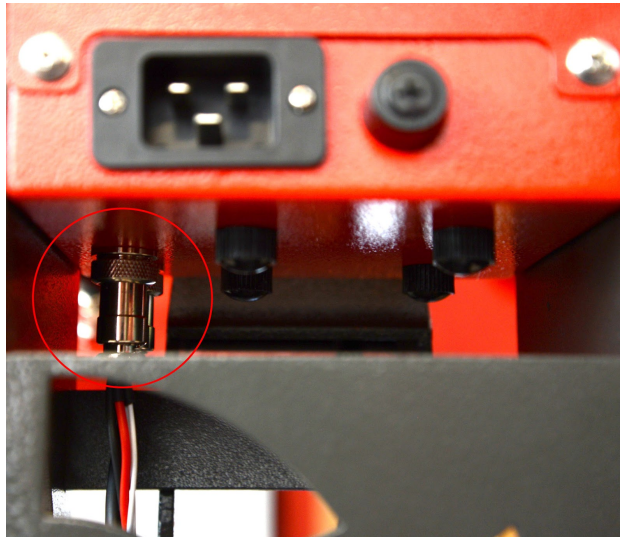
- a. Heating plate
- b. Magnet plate, electro magnet not shown
- c. Digital controller for time, temperature and the counter
- d. ON / OFF switch
- e. Plug for heating plate
- f. Plug for thermocouple
- g. Connection for power supply and automatic fuse (not shown)
- h. Membrane plate
- i. Inflation bulb
- j. Manometer for pressure display

## Initial operation

- Place the basic rack of the TC5 MEMBRANE or TC7 MEMBRANE heat press on a even and stable working surface.
- Mount on included rubber feet.
- Place the red controller box centred behind the basic rack of the TC5 MEMBRANE or TC7 MEMBRANE heat press.
- Tighten the red controller box with supplied screws - 3 screws on each side.



- Screw the 4-pole and 2-pole plug connector of the basic rack into the suitable socket on the box.



- Tighten supplied manometer with the screw nuts from beneath onto the membrane plate - in the front right corner.
- The TC5 MEMBRANE or TC7 MEMBRANE heat press is now ready for operation.

## Controller



With a large digital controller, temperature (°C und °F) and pressing time can be adjusted. The green digits are showing the theoretical value, the white digits are showing the actual value. A counter (at the right bottom) counts the number of transfers that have already been made during the current session. The counter can be reset at any time.

## Operation

- Connect the heat press to a 230 V power socket using the connection cable supplied.
- Switch on the press with the red rocker switch.
- After a short self-test lines appear in the display.
- Press the OK button.
- Use "UP" or "DOWN" to set °C or °F and press OK.

- Use “UP” or “DOWN” to set the desired temperature and press OK.
- Use “UP” or “DOWN” to set the desired time and press OK.
- The press heats up until the desired temperature is reached.
- You can now make the first transfers. The timer starts running as soon as the press is closed with the press lever.
- Pump up the membrane with the inflation bulb until all unevennesses of your transfer object are compensated. Do not blow up the membrane too much. The curvature in the middle of the membrane should not be over 5cm when it is not under load.
- By turning the black hand wheel the pressure can be adjusted. Clockwise rotation results in higher pressure and counterclockwise rotation leads to lower contact pressure.
- The actual pressure of the closed heat press is displayed in g/cm<sup>2</sup> on the manometer.
- While the press is closed the contact pressure can be adjusted by further inflation of the membrane plate. To reduce pressure loosen the silver screw next to the inflation bulb.
- 3 seconds before the end a warning signal sounds. After the set time has expired, the press opens automatically.
- The contact pressure can be adjusted with a wheel on the surface of the press. Clockwise rotation causes less pressure - counter clockwise rotation causes more pressure.
- Each time the pressing process is completed, the counter display increments by one after the set time has expired.
- You can reset the counter by pressing RESET for longer than 5 seconds.

**Please note that a certain time is required before the press cools down after it is switched off.**

**Note: The higher the contact pressure, the faster and more powerful the press opens. To prevent from injuries keep away your head and extremities from the lever of the press.**

## **Maintenance and cleaning**

Maintenance work should always be accomplished with the press switched off and cooled down. The plug must first be disconnected from the power socket. Consult Technical Support before carrying out any maintenance work.

Clean the press regularly with a soft cloth and mild household cleaner to remove adhesive residues etc. Never use scouring sponges, solvents or gasoline!



## Recommended times and temperatures

These values are only guidelines; they can vary from material to material and should always be checked before pressing.

Material	Temperature	Pressure	Time
Flock film	170°C - 185°C	light-medium	25s
Flex film	160°C - 170°C	medium-high	25s
Sublimation flex	180°C - 195°C	medium-high	10s - 35s
Sublimation on ceramic mugs	200°C	medium-high	150s - 180s
Sublimation on tiles	200°C	high	120s - 480s (depending on thickness of material)
Sublimation on jigsaw puzzles	200°C	light-medium	25s
Sublimation mousepads	200°C	medium	20s - 40s
Sublimation on textiles	200°C	medium-high	30s - 50s
Sublimation on metal plates	200°C	high	10s - 50s (depending on thickness of material)

**Important note:** You should carry out your own tests with the transfer material and backing to be used before starting production. The values given above and the manufacturer's own figures are only intended as a guide. You should establish the washability and behaviour during transfer in your own tests.

The recommended values do not imply a guarantee. The user is responsible for determining and using the appropriate setting for his particular conditions.

**Note for textile work:** After pressing, allow textiles to cool down before removing any type of backing from the transfer material. The hot glue in the transfer material develops its adhesive force only in the cold state. If the adhesive does not stick in the cold state, it may have been pressed too cold or for too short a time.

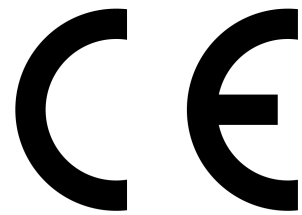


## Technical data

Heat press	Secabo TC5 MEMBRANE	Secabo TC7 MEMBRANE
<b>Type</b>	auto open module-based heat press with passive membrane	auto open module-based heat press with passive membrane
<b>Work surface size</b>	38cm x 38cm	40cm x 50cm
<b>Size Membrane-base plate</b>	45cm x 45cm	47cm x 57cm
<b>Max. temperature</b>	225°C	225°C
<b>Max. time setting</b>	999s	999s
<b>Max. contact pressure</b>	250g/cm <sup>2</sup>	250g/cm <sup>2</sup>
<b>Pressure adjustment</b>	height adjustment of the base plate using the hand valve, fine adjustment with the inflation bulb and release valve of the membrane	height adjustment of the base plate using the hand valve, fine adjustment with the inflation bulb and release valve of the membrane
<b>Power supply</b>	230V / 50Hz - 60Hz, 1,8kW	230V / 50Hz - 60Hz, 2,0kW
<b>Ambient conditions</b>	+ 5°C - +35°C / 30% - 70% humidity	+ 5°C - +35°C / 30% - 70% humidity
<b>Weight</b>	40kg	45kg
<b>Dimensions (W x H x D)</b>	45cm x 53cm x 75cm	47cm x 55cm x 80cm

# Statement of Conformity - Konformitätserklärung

We herewith declare under sole responsibility that the under „technical data“ mentioned product meet the provisions of the following EC Directives and Harmonized Standards:



Hiermit erklären wir in alleiniger Verantwortung, dass das unter „Technische Daten“ genannte Produkt mit den Bestimmungen der folgenden EG-Richtlinien und Normen übereinstimmt:

EG-Richtlinien / EC Directives:

2006/95/EG Niederspannungsrichtlinie

2006/95/EC Low Voltage Directive

98/37/EG Maschinenrichtlinie (2006/42/EG ab 29.12.2009)

98/37/EC Directive on machinery (from 2009-12-29: 2006/42/EC)

Norm / Standard:

EN 60204-1:2006

Technische Dokumente bei / Technical documents at:

Secabo GmbH, Hochstatt 6-8, 85283 Wolnzach, Germany

A handwritten signature in black ink, appearing to read 'Fabian Franke'.

Dipl. Ing. Fabian Franke

A handwritten signature in black ink, appearing to read 'Bernhard Schmidt'.

Dipl. Ing.(FH) Bernhard Schmidt