Erkodent Thermoforming Units

Erkoform-3d+  Erkoform-3d *motion*  Erkopress *ci motion*
New: Erkopress _motion

Pressure forming device with automated thermoforming process to connect with the existing compressed air system.

Erkopress _motion, technical data:

- H 32/ W 35/ D 43 cm weight 18.9 kg
- Foil diameter 120 mm foil thickness 0 - 5.5 mm
- ~220 - 240 (100, 110 - 120) volts, 50 - 60 hertz, max. 380 watt
- Working pressure 6 bar noise level < 70 dB(A)

- Program the foil
- Insert foil
- Start the heating process
- Place model now at the latest
- Everything else will be done by the Erkopress _motion!

- The thermoforming process as well as the cooling time will run automatically.
- Touchless temperature sensor to exactly determine the actual temperature (patented) of the thermoforming materials.
- For uniform wall thicknesses the hot foil will be placed vertically onto the model ...
- ... simultaneously the cylinder will be extended and the forming adaption is taking place without delay.
- Outstanding workplace safety through automatic switch-off function.
- Pinch protection during the automated thermoforming.
- The medium-wave infrared heating without preheating time, heats up the material not only on the surface but also in-depth.
- Easily accessible model during heating period.
- Acoustic and visual signal (suitable for people with impaired hearing).
- Program-controlled function and process.
- Air regulator with gauge and water separator.
Touchpanel

- The program contains all Erkodent thermoforming materials and as a quick guide, supported by animations, it leads through the workflow, and signalizes the necessary work steps.
- Choose the desired foil and thickness and start the process.
- The displayed thermoforming temperature and the cooling time can be adjusted for special applications, without modifying the standards.
- Frequently used foils can be saved as favorites.
- New foils will be stored as favorites. (Or maybe: Self-defined foil parameters can also be stored as favorites.)
- Even modified factory settings can be saved as favorites.

It is possible to thermoform on a model plate or in granules. The handling of the granules was significantly improved.
New: Erkopress ci motion

Pressure forming unit with automated thermoforming process with self-sufficient, integrated production of compressed air.

• Program the foil  • Insert foil  • Start the heating process
• Place the model now at the latest  • Everything else will be done by the Erkopress ci motion!

Erkopress ci motion, technical data:
H 32/W 35/D 43 cm weight 21.3 kg
foil diameter 120 mm foil thickness 0 - 5.5 mm
~220 - 240 (100, 110 - 120) volts, 50 - 60 hertz, max. 440 watt
working pressure 6 bar noise level < 70 dB(A)

• The Erkopress ci motion has a powerful, integrated compressor with reserve compressed air. Thereby the unit is independent of a compressed air system that possibly has to be installed.

• Other than that the equipment features, device function, and device programming of the Erkopress ci motion corresponds to that of the Erkopress motion.
In a reserve pressure chamber a pressure of 7 bar is built up after the Erkopress \textit{ci\_motion} has been switched on. This pressure will be maintained independently of the programming sequence. Thereby 6 bar will be available for the forming.

The low operating noise of the integrated compressor is a distinguishing feature, while continuously maintaining the available pressure.

Same as the Erkopress \textit{\_motion} the Erkopress \textit{ci\_motion} complies with the legal regulations in regard to occupational safety, construction and classification.

Both units can also be used as pressure pot for auto-polymerizing material when used with the accessory polymerization pressure pot \textbf{173 888} (image above).
Thermoforming unit with automated thermoforming process

- Program the foil
- Insert foil
- Start the heating process
- Place the model now at the latest
- Everything else will be done by the

**Erkoform-3dmotion!**

The thermoforming process and the cooling time will run automatically.

- No compressed air supply required, plug and play.
- No preheating time needed.
- Touchless temperature sensor to exactly determine the actual temperature (patented) of the thermoforming material.
- Prior to the thermoforming process built up vacuum with sudden forming.
- Vertical pre-stretching and fitting for even foil thicknesses.
- To position the foil, with foil thicknesses of 0 to 5.5 mm, the unit can be operated conveniently with one hand.
- Easily accessible model during heating period.
- Acoustic and visual signal (suitable for people with impaired hearing).

The touchpanel functions correspond to the ones of the Erkopress units. See page 3.

**Erkoform-3dmotion, technical data:**

- H 31.5 / W 35 / D 37 cm weight 13.9 kg
- foil diameter 120 mm foil thickness 0 - 5.5 mm
- ~220 - 240 (100, 110 - 120) volts, 50 - 60 hertz, 360 watt
- max. vacuum 0.8 bar noise level < 60 dB(A)
Erkoform-3d +, technical data:

- H 31.5/W 35/D 37 cm
- weight 11.9 kg
- foil diameter 120 mm
- foil thickness 0 - 5.5 mm
- ~220 - 240 (100, 110 - 120) volts, 50 - 60 hertz, 340 watt
- max. vacuum 0.8 bar
- noise level < 60 dB(A)

Same features as Erkoform-3d motion just without the automated thermoforming process. Also the touchpanel functions are the same.

In both units a large volume reserve vacuum is being held to allow a sudden forming. A sensor for touchless temperature measurement ensures the accurate temperature of the material for the thermoforming regardless of the ambient temperature.

The units are equipped with a medium-wave infrared heating, which doesn’t need preheating time. The medium-wave allows for the materials to heat up not only on the surface but also in-depth. The result is a less stressed splint.
Occluform-3, a unique occludator for the Erkoform units series 3

With the Occluform-3 the opposing bite can be imprinted optimally in the malleable thermoforming material during the thermoforming process.

The construction of the Occluform-3 unit is based on a Bonwill triangle with a side length of 11.5 cm and a Balkwill angle of 20°.

Due to measurements that are in accordance with the ones of a state of the art average movement articulator, the Occluform-3 allows for a mean/mid-value raising of the bite.

With the help of the Occluform-3 the models can be articulated if a construction bite is available that was taken either orally or in a fully adjustable articulator.

A marking line on the supporting pin corresponds to a bite rising of approx. 1 mm at the incisal point.

- The new and stronger arresting joint needs less effort for a secure locking.
- Plaster-free model fixation.
- A lot of space, even for high models.
- Single column construction for best model accessibility.

The Occluform-3 is mounted most easily and comes with detailed instructions. It is a sturdy metal construction with hydraulic fixation of the opposing bite.
Erkoform-3dmotion with automated thermoforming process
<table>
<thead>
<tr>
<th>Feature</th>
<th>Erkoform-3d motion</th>
<th>Erkoform-3d+</th>
<th>Erkopress motion</th>
<th>Erkopress ci motion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressed-air supply required</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Touchless temperature sensor</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Medium-wave infrared heater</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Preheating time</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
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<tr>
<td>Reserve vacuum or reserve pressure</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
<td>yes</td>
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<tr>
<td>Foil thicknesses from 0 to 5.5 mm</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Vertical prestretching and adaptation</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Adaptation without delay</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>Adjustment with Occluform-3</td>
<td>yes</td>
<td>yes</td>
<td>no</td>
<td>no</td>
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<tr>
<td>Adjustable adaptation power</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>no</td>
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<tr>
<td>Touchpanel</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>All program features</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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</tbody>
</table>
## Technical Data:

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimension</th>
<th>Foil Diameter</th>
<th>Foil Thickness</th>
<th>Weight</th>
<th>Voltage Range</th>
<th>Frequency</th>
<th>Power</th>
<th>Maximum Vacuum</th>
<th>Noise Level</th>
</tr>
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<tbody>
<tr>
<td>Erkoform-3d motion</td>
<td>H 31.5/W 35/D 37 cm</td>
<td>120 mm</td>
<td>0 - 5.5 mm</td>
<td>13.9 kg</td>
<td>~220 - 240 (100, 110 - 120) volts</td>
<td>50 - 60 hertz</td>
<td>360 watt</td>
<td>0.8 bar</td>
<td>&lt; 60 dB(A)</td>
</tr>
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<td>0 - 5.5 mm</td>
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<td>~220 - 240 (100, 110 - 120) volts</td>
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