Bag making by KIEFEL

Compact design for innovative technologies
The brand new bag making line allows you to produce high quality medical speciality bags according to your needs. The compact design demonstrates the mix of innovative technologies with highest quality standards, thus reducing valuable space in clean room. Available with TC & RF welding technology.

Special technologies in RF machines

Driving the market further: Crossfield Welding Technology

High efficiency
- Shorter cycling time
- Increase of output of around +30%
- Reduction of 2nd welding station – less integration efforts

Small footprint
- Less space needed in clean room

Innovative Crossfield Welding Technology
The crossfield welding technique speeds up the current RF welding process – enabling you to increase output capacity and save valuable space. Kiefel sets new standards through the possibility to weld without a mandrel and combine two welding steps into one.
Printing station

- Unique Device Identification (UDI) and pharma serialisation are driving the discussions around Track & Trace possibilities. Product safety is ensured in Kiefel machines through optimised printing techniques, e.g., flexible printing.

Special technologies in TC machines

- With the process of tube preheating and film preforming Kiefel brings the welding quality to perfection.

Main benefits at a glance

**Full flexibility**
- Small footprint: space-saving object with low space requirements
- Full power inclusive: even small in size – big output possible

**Compact & clean design**
- Meets fully the current GMP and FDA requirements, no open cables and tubes
- Integrated switchboard and HMI in whole machine design

**High comfort**
- Easy maintenance due to easy access
- Plug & play: ready to use machine. Just plug in the power & start the production
The KIEFEL compact Swift line

Innovation made by Kiefel
The brand-new crossfield welding technology has been developed for your comfort. It can be used for various products and components.

Developed by Innovation & Technology Center KIEFEL GmbH.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>RF</th>
<th>TC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension L x W x H (mm)</strong></td>
<td>4,700 x 1,400 x 2,500 (without generator)</td>
<td>4,700 x 1,400 x 2,200</td>
</tr>
<tr>
<td><strong>Machine weight approx. (kg)</strong></td>
<td>4,600 (without generator)</td>
<td>4,600</td>
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<tr>
<td><strong>Compressed air (bar)</strong></td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Air consumption approx. (Nl/min)</strong></td>
<td>600 (5 bar)</td>
<td>600 (5 bar)</td>
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<tr>
<td><strong>Power supply</strong></td>
<td>400 V / 50 Hz (TNS) / 55 kVA</td>
<td>400 V / 50 Hz (TNS) / 24 kVA</td>
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<tr>
<td><strong>Power consumption (kWh)</strong></td>
<td>5.8</td>
<td>5</td>
</tr>
<tr>
<td><strong>Cycling time (c/min)</strong></td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td><strong>Maximum effective area (mm)</strong></td>
<td>300 x 350</td>
<td>300 x 500</td>
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<tr>
<td><strong>Output (bags)</strong></td>
<td>720 (1-up)</td>
<td>900 (1-up)</td>
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<tr>
<td><strong>Operation</strong></td>
<td>1-up (higher operating possible, limited with 180 mm tube/port distance)</td>
<td>1-up (higher operating possible, limited with 300 mm tube/port distance)</td>
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