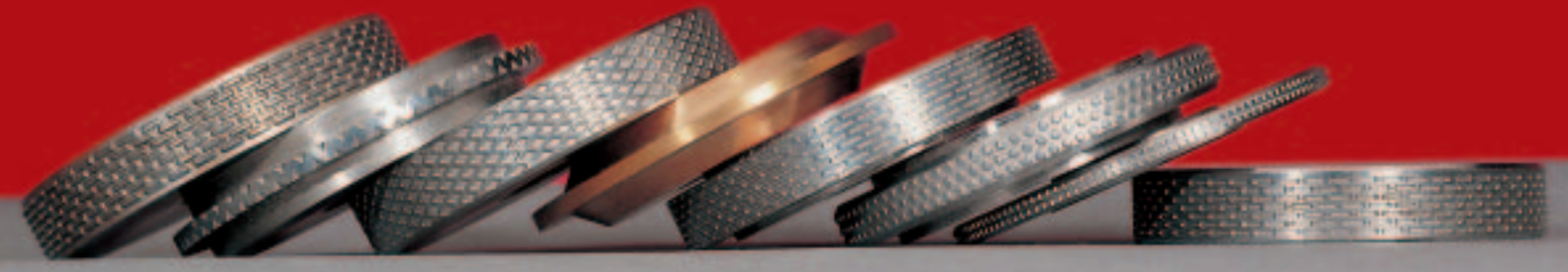
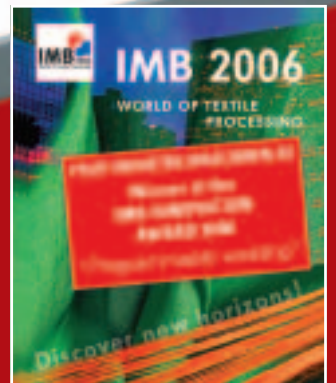


PFAFF

Seamsonic 8310

Ultrasonic welding machine for continuous welding of flexible thermo-plastic materials and nonwovens



PFAFF 8310 Seamsonic

Features:

- All parameters controlled electronically (power, amplitude, speed and pressure)
- New: The seam distance and working cycles can be programmed at the Seamsonic
- New: Detection of multiple layer – cross seam
- New: Machine is calibrated
- 100% reproducibility of the welding process
- Most of thermoplastic sheets, laminates, textiles and non-wovens are weldable
- Equipped with differential feed; separate drive for sonotrode and anvil wheel; that means smooth, non-distorted seams or the possibility of adding a some fullness
- Process reliability through monitoring of welding parameters with integrated device for constant performance (so that reliable processing is possible even when sewing over cross seams)
- High production speed
- Easy welding of small radii
- High wear comfort with lingerie items due to smooth Seam
- Smooth and even seams with standard or custom made anvil wheels
- No start/stop – marks
- No consumables like needle and thread

Programmable welding with PFAFF 8310 series!

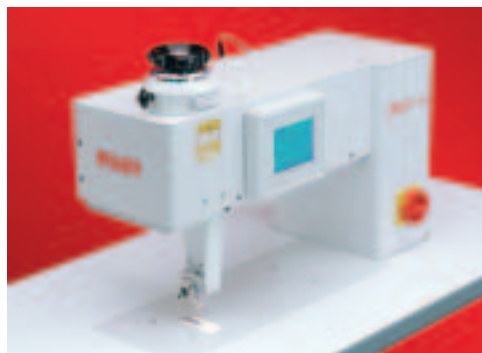
For the first time the Seamsonic ultrasonic welding machine uniquely combines all the physical advantages of ultrasonic welding with the whole range of technological sewing experience. On the PFAFF 8310 Seamsonic the workpiece is held between the sonotrode and the anvil wheel and welded continuously under pressure. When welding continuously by the ultrasonic method, the material to be welded will be subjected to rapid changing pressure vibrations. The heat develops because of molecular vibrations beneath the material surface, for thin materials within the immediate vicinity of the actual weld.

Versions:



PFAFF 8310-041

Top sonotrode, feed-off-the-arm version



PFAFF 8310-042

Bottom sonotrode, flat-bed version with 65 mm diameter anvil wheel (standard)



PFAFF 8310-043

Bottom sonotrode, flat-bed version with 30 mm diameter anvil wheel, specially for narrow curves



Applications for the PFAFF 8310

Technical section:

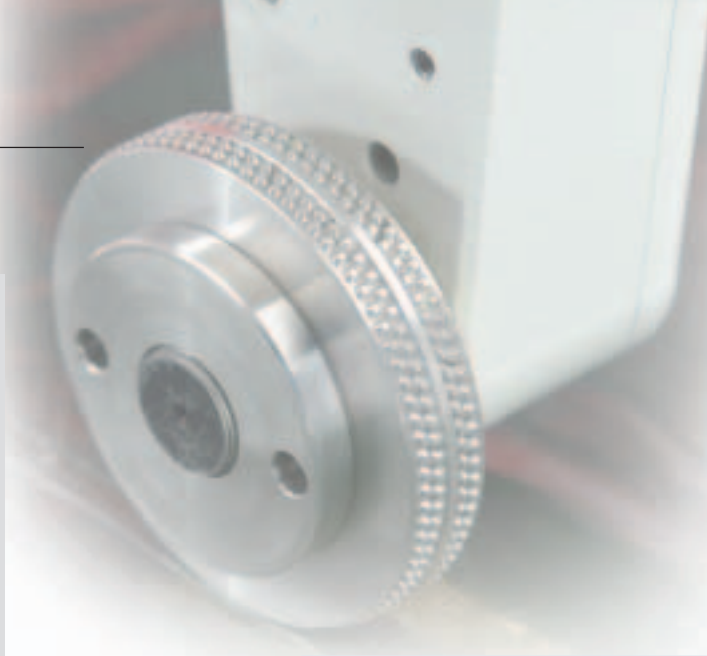
Filter bags, health care articles, medical mattresses and pillows, needle felts, operations sheets and clothing, foils, bullet proof vests, blinds and awnings, pleated filter, shower curtains and many more

Garment section:

Outdoor garment, Tyvek protective clothing, bras, lingerie, operations garment, Softshell and many more

Automotive section:

Protective car covers, blinds, curtains and many more



Technical data:

- Digital PLC-control
- Operated through touch screen
- Functions: manual or automatic operation with speed regulation via foot pedal, amplitude from 50 – 100 %, start delay for ultrasonic generator and motor, stop delay for speed, automatic reverse

Available optional: with free arm, feed-off-the-arm for overlap seams and tubes, as well as with post beds (modules can be interchanged) and as a flat bed version.

Ultrasound unit:

- **New:** welding power constant control
- Inaudible operating frequency of 35 Khz
- Process linked automatic amplitude stabilization and frequency correction
- Automatic tuning of sonotrode before and during welding

Optional accessories:

- Custom-made anvil wheels, milled or engraved, cutting wheels, guide aids for overlap and peeling seams, hemmers and binders.
- Material puller with separate left and right side switching



PFAFF 8310 Seamsonic

New: *Cut & Seal*

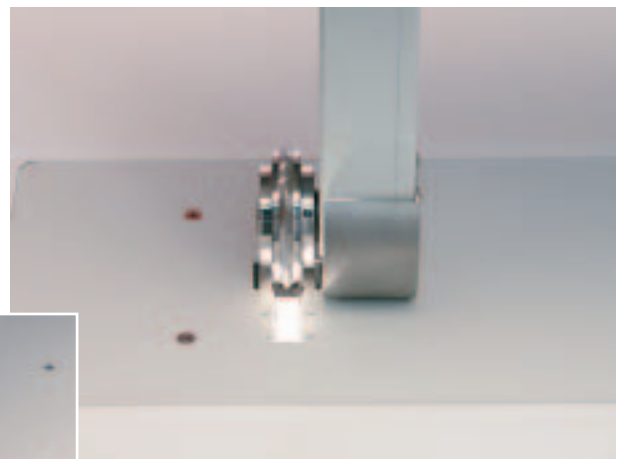
The hottest trend in joining textiles

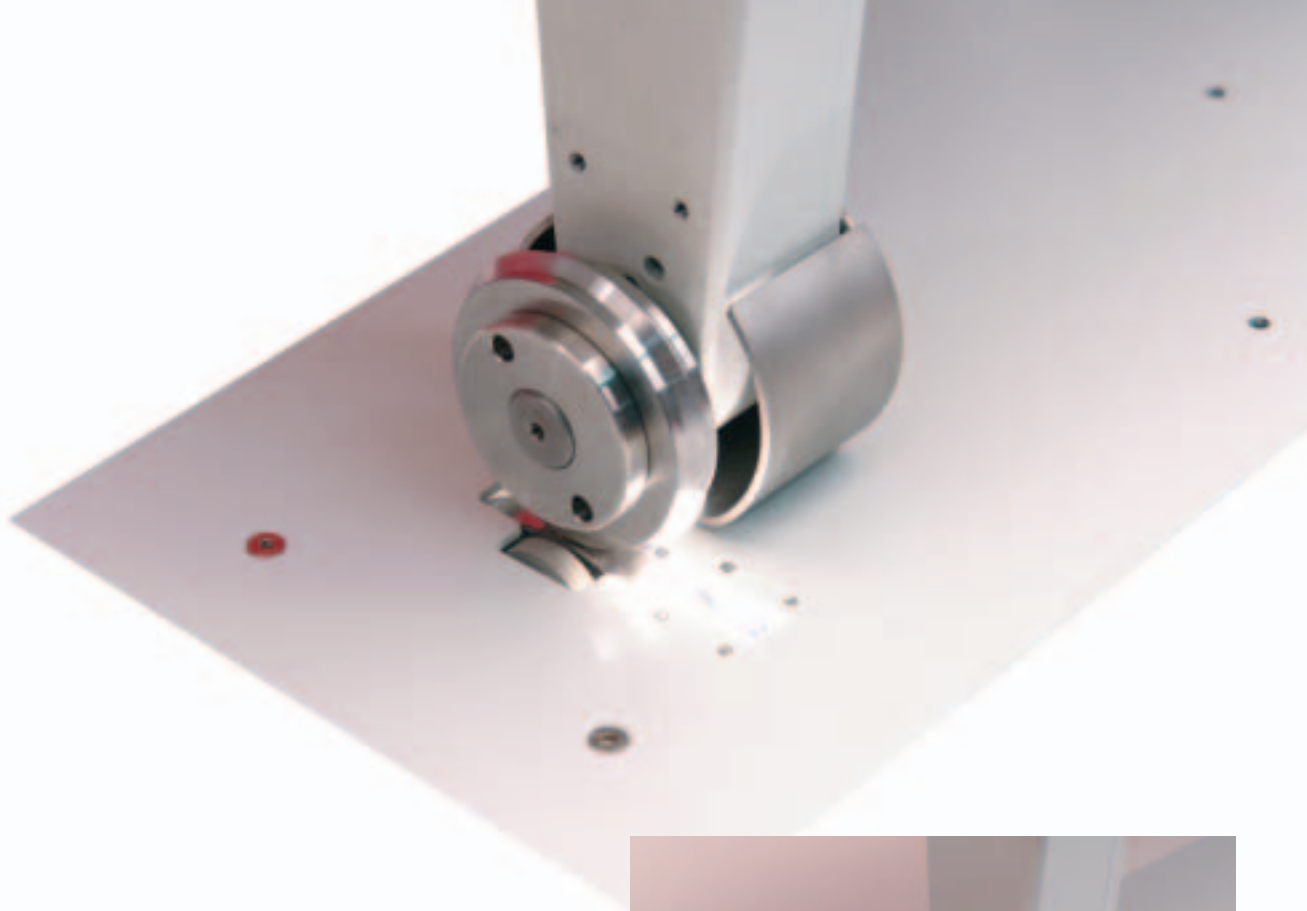
Ultrasonic welding machine for simultaneous cut and edge sealing operation. Continuous processing of flexible thermoplastics and non-woven material.

The PFAFF 8310 Cut & Seal combines the physical procedures of cutting and welding by ultrasonic. Based on the successfully established 8310-003 machine, a new generation of ultrasonic machines has been developed.

Main advantages are:

- Two manufacturing processes in one flow (Cut & Seal)
- Minimum seam width (micro seam) at high firmness
- High wearing comfort of welded materials
- Flat seams after taping with PFAFF 8303 or PFAFF 8330



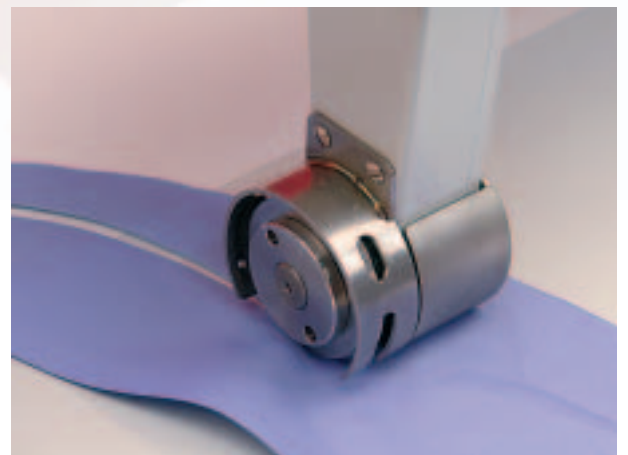


Applications:

Ultrasonic welding with the *Seamsonic* is a modern and economic production method and complementary to the conventional sewing technology. When laminates, clothing textiles with a large share of polymer and technical non-woven materials have to be processed, and when in particular watertight seams are required, the use of the *Seamsonic* is the first choice.

Examples of use:

- Clean room wear
- Surgery wear
- Safety waistcoats
- Lingerie
- Outdoor wear
- Technical filters
- Covers for cars and boats
- Softshell
- and many more



Technical Data:

Welding speed:

0.5 - 20.0 m/min.

Seam widths:

2 – 10 mm

Throat:

400 mm

Anvil wheel:

dia. 65 mm, width and seam profile as per customer requirement

Material thickness:

> 50 μ

Gap adjustment:

0 – 2 mm, fine adjustment
1/50 mm by graduated hand wheel

Welding pressure:

0 – 800 N (5 bar)

Power supply:

230 V, 50/60 cycles, 16 Amp.

Consumption:

4 Amp., 800 VA

Compressed air:

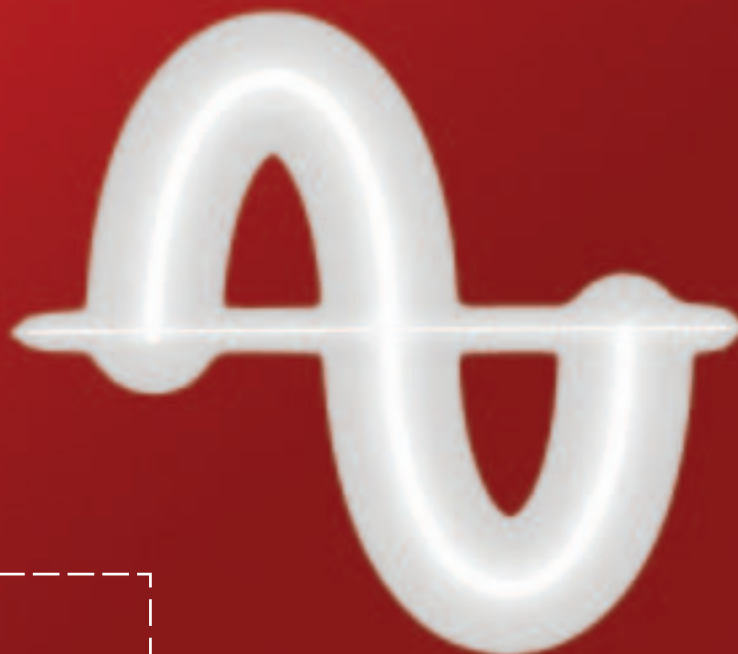
6 bar, 10 litres/min.

Weight:

gross 230 kg, net 182 kg

Measures:

121 x 67 x 135 cm packed
depending on the version



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Hotline: +49-160/5827604

Email:
seamseal@pfaff-industrial.com

Internet:
www.pfaff-industrial.com/welding

The right to alter the design, weight
and dimensions is reserved.

For further information,
please contact our sales department.
Tel.: +49-631-200-3426

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