

PFAFF®
Industrial

Excellence in seaming



3590 vario

Programmable
Large-area sewing unit

Features:

- Special automatic sewing head suitable for threads from 80/3 to 11/3 with raisable arm (90 mm clearance)
- Vibrating presser with programmable height control (two positions) - floating presser foot on request
- Excellent multi-directional sewing properties due to vertical hook system
- Accurate seam quality due to the intermittent feed (feed stop when needle enters material), shifting of the material in the work clamp is avoided and wear on the hook is reduced
- The needle-bar turning device and bobbin thread slide for an optimum stitch appearance to avoid loop stitches on highly decorative seam patterns with circular seams (option)
- Work clamp identification and matching seam program via RFID (Radio Frequency Identification) functionality (option). The RFID recognition realizes an automatic start (less idle time and a higher output).
- New touch-control-panel P1 with integrated SD card reader and USB slot. The P1 guarantees an intuitive operation
- Sewing programs + software changes can be entered via SD card and USB card
- In combination with the programming system „PSP“ the 3590 series is the last link in a data-aided upper stitching program. Existing CAD data sets can be used with „PSP“ to create sewing and cutting programs.
- The simplicity of the work clamps design enables the technician to manufacture the inserts (sewing jigs) on site. PFAFF offers a Imes-Icore milling machine (milling area: 900 x 700 mm).
- Remote Control: The control panel P1 can be operated by remote control via VNC for maintenance and fault analysis, using a personal computer, laptop or a smart device

- **NEW: PFAFF 3590-6/xx with zigzag machine head**

The predestined area of use is on products such as, for example, tactical vests or outdoor goods with a number of bartacks to be sewn. In the case of tactical vests, for example, there could be up to 60 – 80 bartacks (in y-direction) within the sewing area (sewing frame for the 3590-6/8540: 850 x 400 mm). The new PFAFF solution creates the bartacks through the movement of the needle bar and not through the motion of the entire frame. This significantly increases the performance (max. 3000 stitches/min.) and is gentler on both the machine and the material..



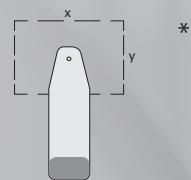
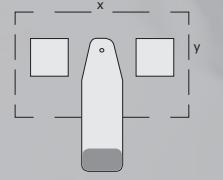
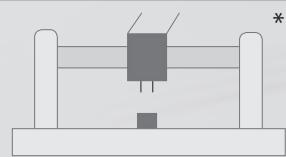


Option:

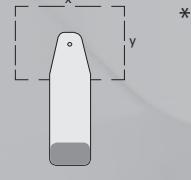
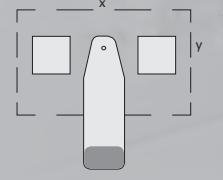
Floating pressure foot for the
sewing jigs (height adjustable)



Versions (straight stitch):

| Version | Subclass | Sewing area (x - y) | Needle turning device (Option) | Position: Sewing area/machine head |
|----------------|--|---|--------------------------------|---|
| 3590 vario | -4/5030 | 500 x 300 mm | ✓ |  |
| | -5/5040 | 500 x 400 mm | ✓ | |
| | -5/8540 | 850 x 400 mm | ✓ | |
| | -5/8550 | 850 x 500 mm | ✓ | |
| | -7/5040 | 500 x 400 mm loading on left and right side of the sewing head | ✓ |  |
| 3590 Portal | -51/xx (single-needle) -52/xx (double-needle) | 1200 x 700 mm 1200 x ... (on request) | ✓ |  |

Versions (switchable from zigzag stitch to straight stitch):

| Version | Subclass | Sewing area (x - y) | Needle turning device (Option) | Position: Sewing area/machine head |
|---------------|------------|---|--------------------------------|---|
| 3590 vario | -6/5030 | 500 x 300 mm | - |  |
| | -6/5040 | 500 x 400 mm | - | |
| | -6/8540 | 850 x 400 mm | - | |
| | -6/8550 | 850 x 500 mm | - | |
| | on request | 500 x 400 mm loading on left and right side of the sewing head | - |  |

* raisable arm

** a separate brochure is available



Areas of application:

Shoe production:

Classical shoe models and especially leisure shoes, cowboy boots, sports shoes, work and military boots

Accessories for the motor industry:

Airbags, belts, upholstery and linings

Living/office:

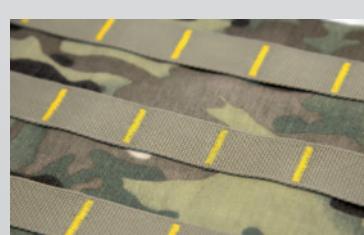
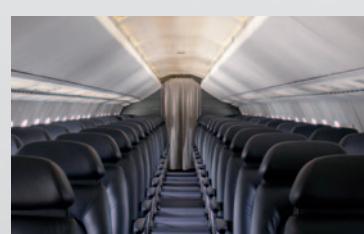
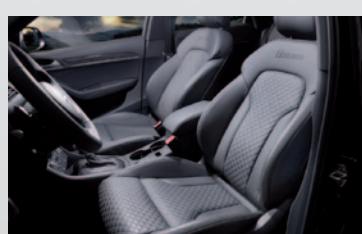
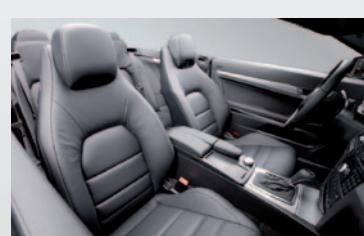
Sofas, couches, arm chairs + office chairs

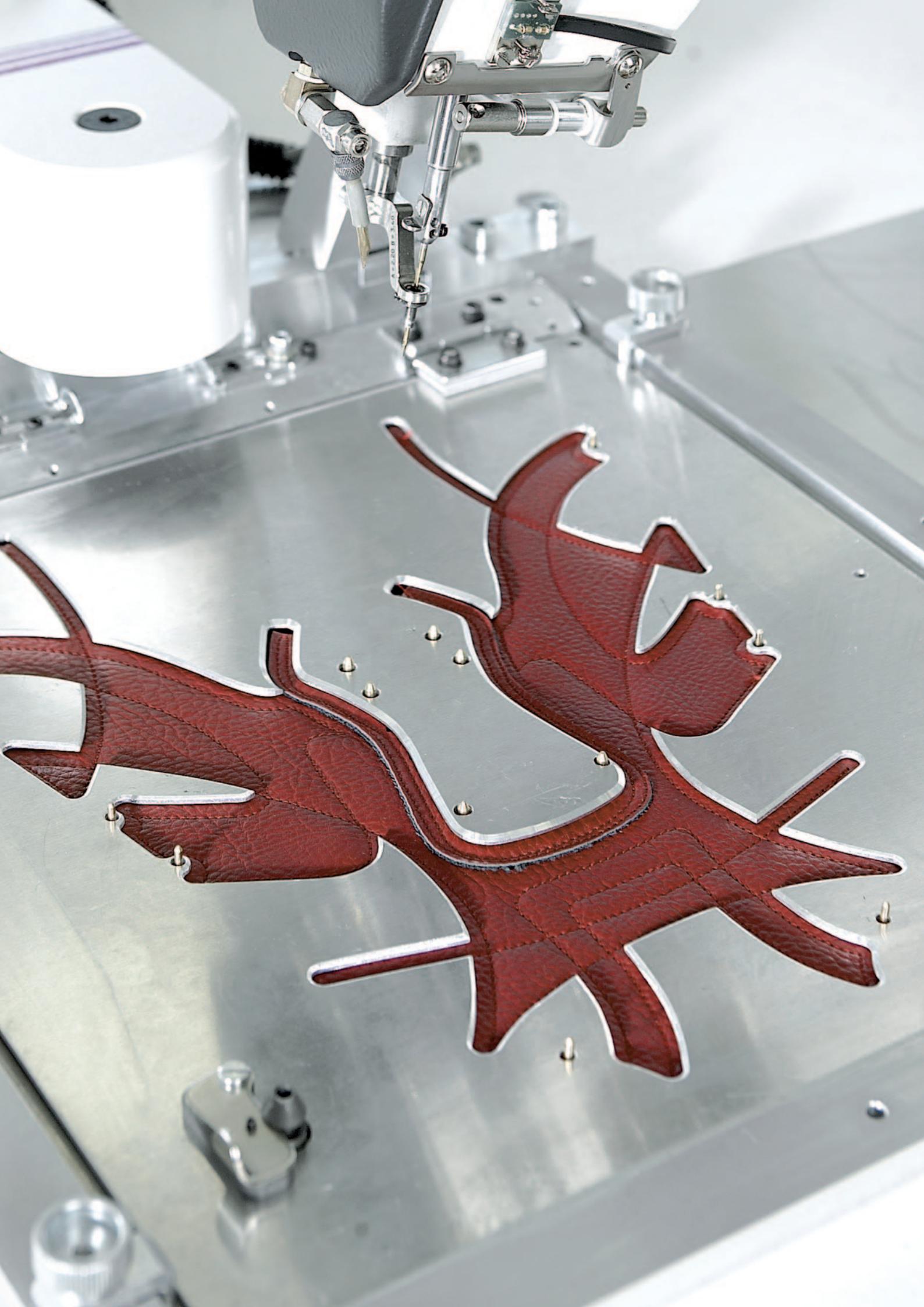
Leather and plastic articles:

Document envelopes, bags, watch straps, etc.

Technical textiles:

Tactical vests, protective clothing, visors, awnings, filters





Equipment:

- PFAFF special automatic sewing head with vertical hook system and raisable arm
- Touch-control-panel P1 with integrated SD card reader. Writing sewing programs and seam corrections on the machine
- Clamp monitoring via RFID (Radio Frequency IDentification)
- Automatic selection of program numbers
- Needle thread recognition via sensor
- Bobbin thread monitoring via stitch counter
- 1 clamp frame to take shape depending templates (in the models 3590-4/5030 and -5/5040)
- Open frame for test seams (in the models 3590-4/5030 and -5/5040)
- Standard thread trimmer (-900/81)
- Needle blower device: Reduces the generation of heat of the needle

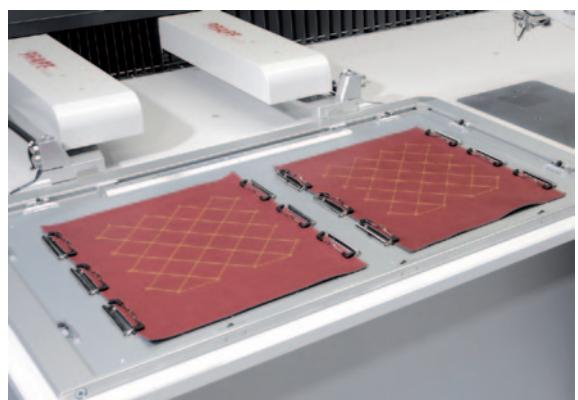
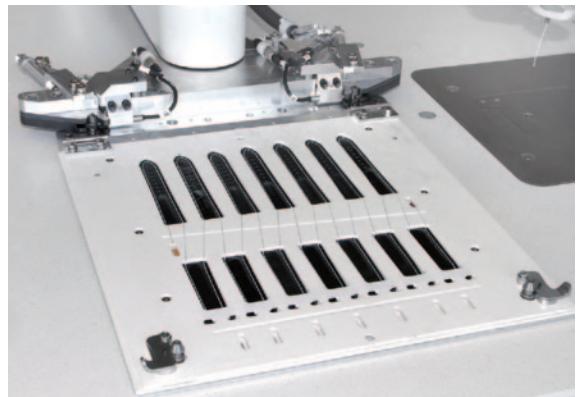
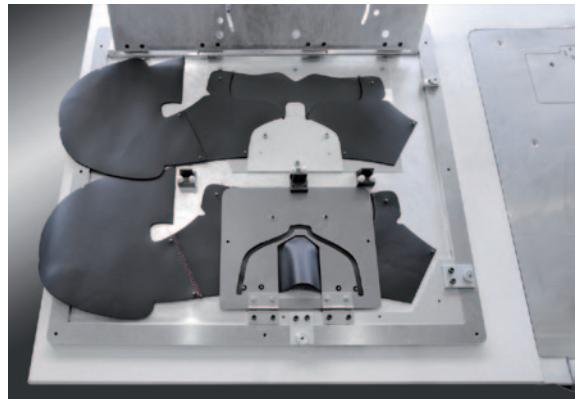
Options:

- Sewing templates upon customers request
- Programming system PSP (PFAFF Stitch Program)
- Floating pressure foot for the sewing jigs (height adjustable)
- Software controlled needle bar turning device and a mechanical bobbin thread slide (to counter loop stitches when sewing highly decorative and multidirectional seam designs)
- 1 set of rollers for transportation (4 pieces)
- Foot switch
- Bobbin thread monitoring via sensor
- High-adjustable machine stand (electronic)
- Adapter for NON PFAFF clamps (on request)
- Extra large hook Ø 30 mm
- Thread trimmer (-900/86) for thick threads up to 10/3 syn.
- Dimmable LED light in the needle area
- Thread wiper

Milling the template:

- Upon request we support you with the selection and installation of the milling machine to manufacture the templates. Our partner for the milling technology is Imes-Icore





Seam programming and data transfer via PSP:

(PFAFF STITCH PROGRAM)

What is PSP ?

- PSP is a program for creating seam patterns

What is PSP capable of ?

- Free programming of individual seam types with the use of graphic elements, such as:
Straight line, curve, circle, ellipse, rectangle, square
- Entering specific commands for a machine
- Using background graphics (bitmaps) as a model for programming specific seam patterns
- Additional tools for defining the exact seam pattern are the zoom function and a variable superimposition of grid patterns
- Import and export of DXF files

Requirements for PSP ?

- PSP can run on every PC or laptop (Windows 2000 and higher) with the possibility of transferring data via SD-card, SD slot, USB/SD adapter or LAN connection





Specifications:

Stitch type:
301 (lockstitch)

Sewing speed:
Up to 3,000 stitches/min.
(depends on material and operation)

Stitch length:
3590 vario: up to 10 mm
3590 portal: up to 12 mm

Zigzag stitch width:
All 3590-6/xx: max. 4 mm

Needle system:
134-35 KK, 134-35 KK DH SERV1

Needle size:
80 - 160

Mains voltage:
A/C 230 V, 50/60 Hz

Compressed air pressure:
6 bar

Power consumption:
up to 1.7 KW (depends on version)

Air consumption:
approx. 15 l/cycle



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