
# Atrojet

## Heading for new shores – with a perfect felt design

atrojet.

Heimbach – wherever paper is made

**“As a specialist and market leader for non-woven and multi-axial press felts, Heimbach has advanced proven press felt technology. We combine existing woven fabric or non-woven fabric structures with new multi-axial non-woven structures. These flexible and adaptable Atrojet modules are the dawn of a new era in press felts.“**

Franz Kiefer, Strategic Product Manager Pressing, Heimbach Düren.

**Atrojet – customer-focused innovation**
Heimbach is the first manufacturer in the world to combine a multi-axial non-woven structure with conventional bases. This has revolutionised our proven press felt technology and has now enabled us to offer even more tailored, flexible and adaptable base combinations to the Atrojet product line.

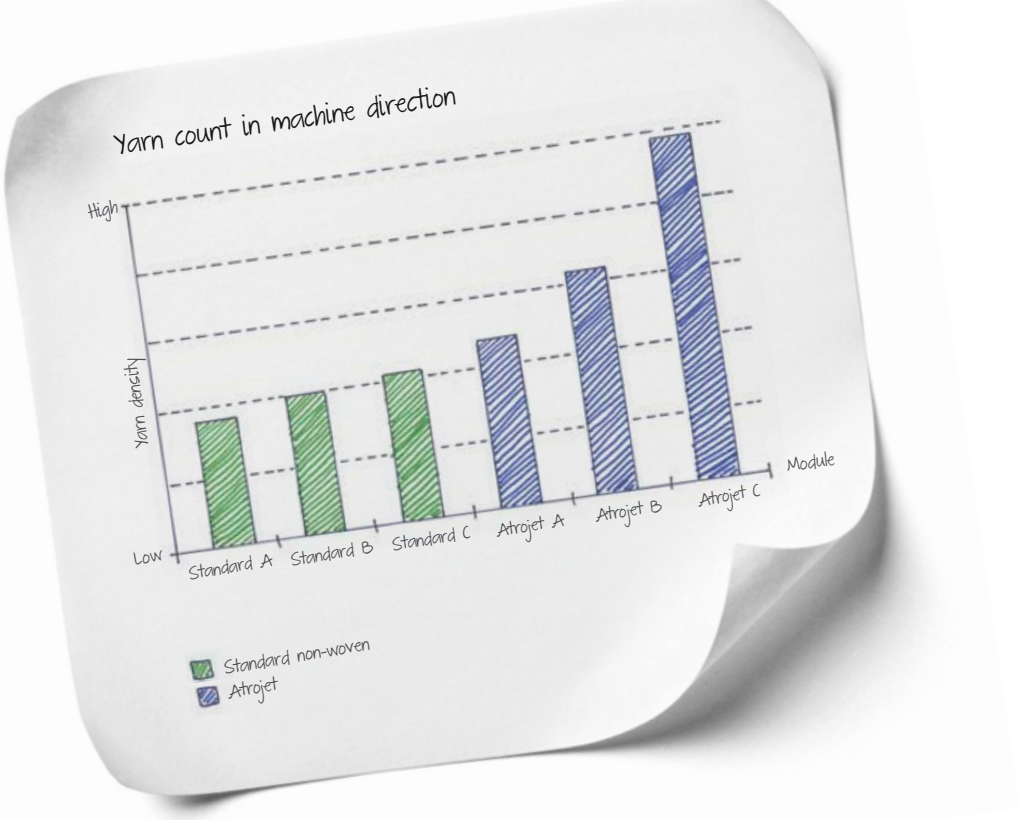
**Toward new shores – with the perfect felt design**
Atrojet technology is unique and can be adapted to the individual requirements of your application. Heimbach designs a specific paper side Atrojet module and combines it with existing base modules.

The multi-axial non-woven module offers far **greater flexibility** in combining yarn and twisted yarn structures than with conventional non-woven or woven fabric structures. The selection of a suitable base in the substructure enables tailored felt designs.

**Coarse or fine? A suitable design!**
Atrojet can provide supremely fine and very compact surfaces as well as more open structures to cover up coarser substructure modules. Finer designs are required for the production of graphic papers and tissues: Here, the homogeneous structures ensure good contact with the paper surface attaining **enhanced dewatering** as well as **very good paper profiles**.

More open felt designs usually improve void volume retention and allow particularly **effective cleaning** of the press felt. This is particularly important for machines with a larger range of paper grades and a selection of different raw materials used.

**Trust the specialist and market leader for non-woven fabrics and multi-axial press felts!**

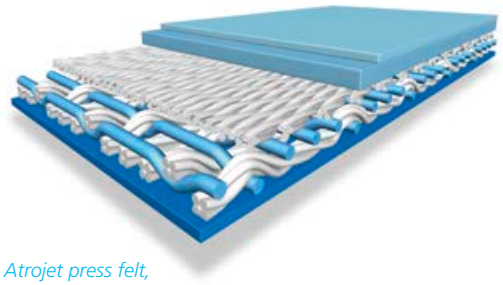



**More flexibility for the yarns!**

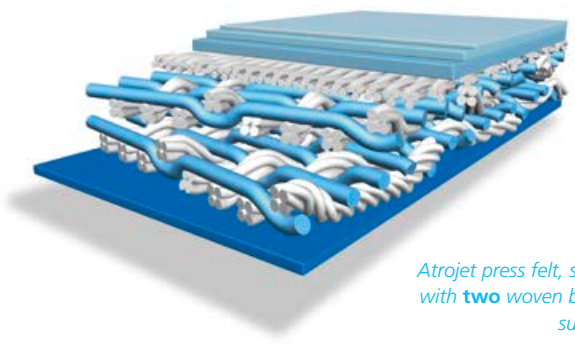
The secret of Atrojet is its flexibility in terms of yarn material and yarn count: From very high, dense yarn counts with thin twisting or monofilaments, to moderate or low yarn count – Heimbach matches each module precisely to the felt properties you require. Atrojet technology also enables the processing of different yarn geometries.

The uniformly arranged machine direction yarns are characterised by high symmetry and precise spacing. This homogeneous structure enables key felt characteristics to be emphasised and improved. The longitudinal direction has a positive effect on the absorption of tensile forces giving **enhanced strength** and contributes towards **economical service life**.

- **Highly flexible yarn content.**
- **Tailor-made felt designs – precise and uniform.**
- **Enables a variety of surfaces.**
- **Extremely fine or coarse open designs.**
- **High level of dewatering and uniform CD profiles.**
- **Improved void volume retention and efficient cleaning.**
- **High strength for an economic service life.**



*Atrojet press felt, consisting of batt module and the Atrojet module combined with a further woven base in the substructure.*



*Atrojet press felt, shown here with **two** woven bases in the substructure.*

*With its uniform machine direction yarn structure Atrojet has far greater surface contact than conventional bases. This leads to more even pressure transmission at the press nip resulting in very steady dewatering and even CD profiles.*


# Fine-tuning for tissue

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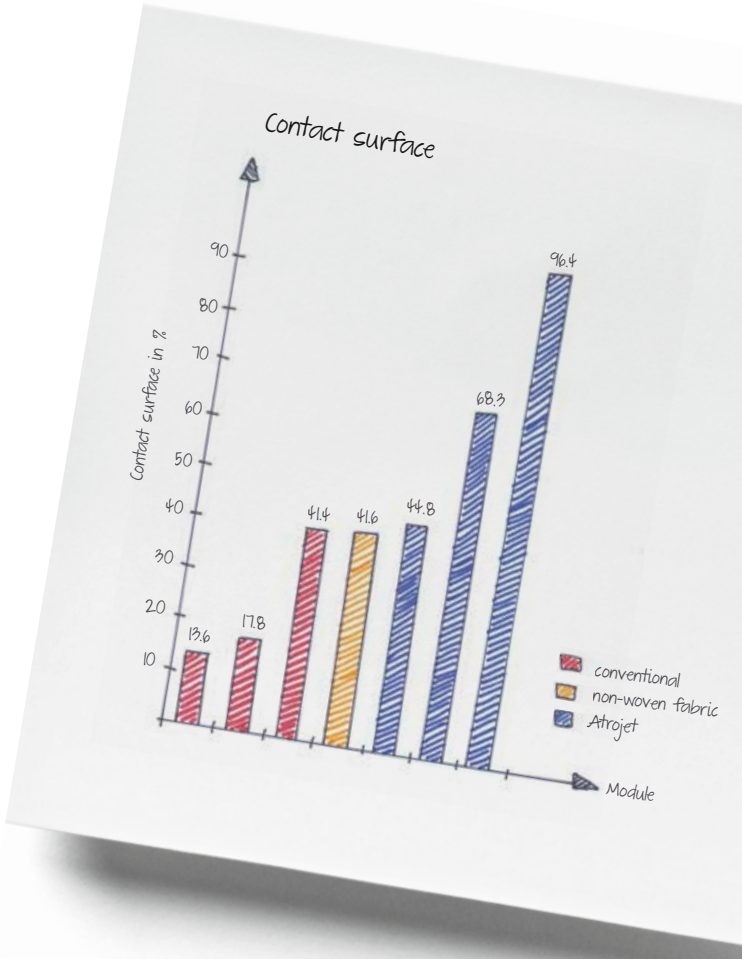
**Your requirements for tissue**

Tissue press felts are sophisticated products:

- High dewatering must be achieved at extremely fast running speeds.
- A new press felt has to reach optimal performance within just a few hours.
- Energy demand (power, gas, steam) is a crucial factor for tissue producers.
- Tissue felts with their typical fine fibre batt layers can be prone to becoming prematurely dense and contaminated.

**Your solution**

The tailored adaptation and outstanding features of Atrojet press felts make them ideal for use in tissue production.

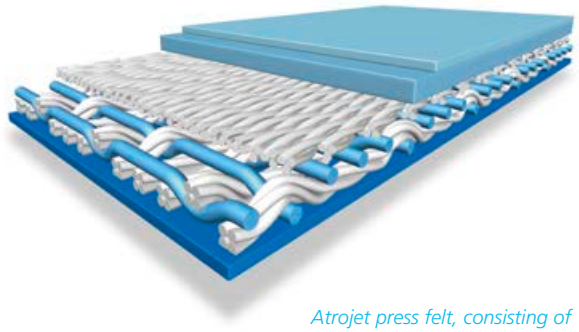


**Atrojet press felts are perfect for use in Crescentformer and TwinWire machines.**

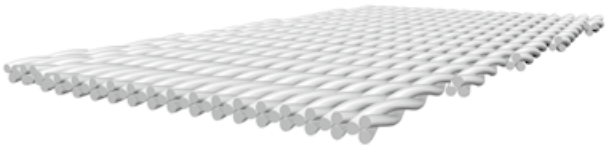
Heimbach precisely matches Atrojet to the special requirements of **tissue manufacturing**. The flexible yarn structure enables the implementation of a compact and very fine Atrojet module. This can, for example, be combined with a more open substructure.

**Start-up fast – reduce energy requirements**
An Atrojet press felt matched to tissue production opens opportunities for actively optimising energy requirements: The fine, homogeneous Atrojet machine direction yarn structure enables fast start-up and the **highest possible dewatering**. The best possible contact area yields **optimum pressure transfer** and contact pressure on the Yankee cylinder.

**The right combination for a long service life**
Selecting an open-textured roll side bottom base enables the press felt to be cleaned more efficiently and improves the resistance to compacting and contamination. This can **increase the service life** of the felt.



*Atrojet press felt, consisting of batt module and the Atrojet module combined with a woven base in the substructure.*



*Atrojet module.*

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