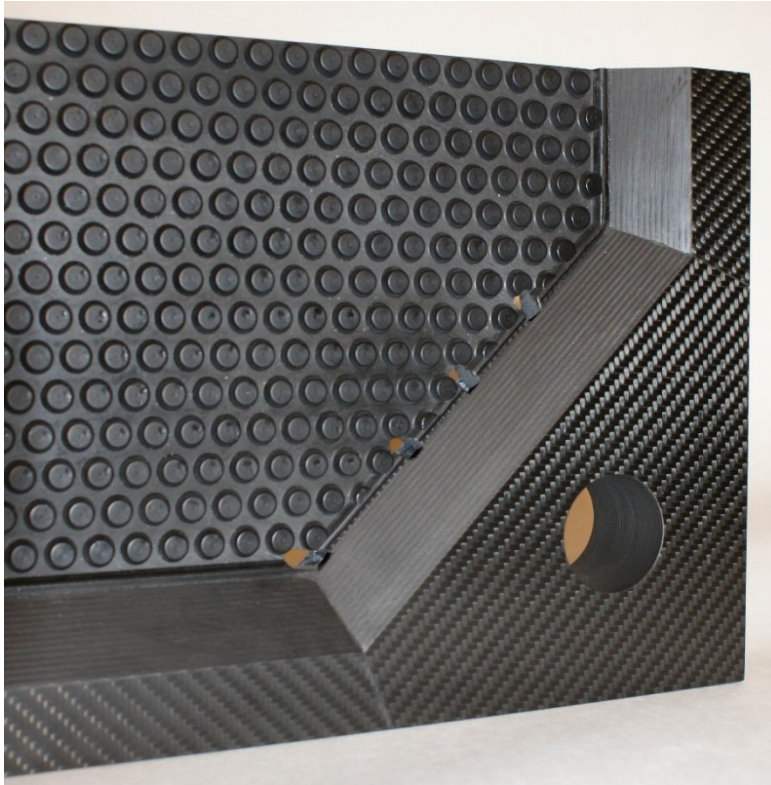


Chamber Filter Press with Carbon Filter Elements

**JZEngineering opens up new ways in
solid – liquid separation**

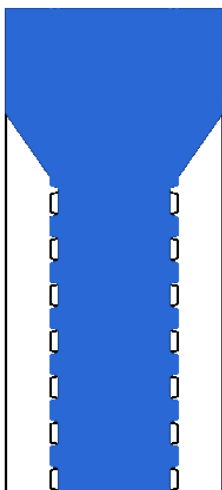


Carbon:

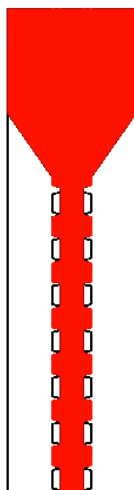
**Mechanical values similar to
steel with the
characteristics of plastic**

- **higher temperatures**
- **higher pressures**
- **thinner filter plates**
= more volume and
more filter area in the
filterpress
- **chemically resistant**
- **ATEX - equipment**

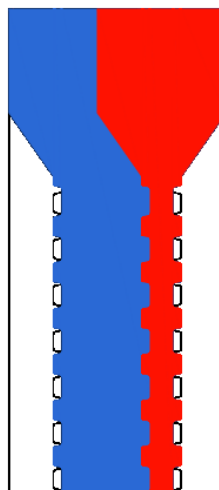
State of the Art:
(PP)



Carbon Plate:



Comparison:



Filter plates experience a new generation:

Originally, filter plates were made out of wood in a **plate and frame system**.

The next development stage were **chamber filter plates** made of steel, cast iron and finally most of them in polypropylene.

After development of the **membrane plates**, the invention of the so-called "**hot filter press**" is the newest development so far.

Here the process parameters find their limits with the materials used, the temperatures rise up to 120 °C.

The new "**Engineering Material Carbon**" provides the solution for previous gaps in available materials on the market.

Thermal limitations of use:

From -20 °C to 120 °C without significant mechanical limitations.

- Filtration temperature or temperature during further process steps such as cake washing or drying the cake up to 120 °C
- Cleaning (disinfection) or for steaming the plates is possible
- For special applications a material for up to 180 °C is available

High elasticity modulus and high tensile strength:

As a result, the inner thickness / plate web, can be reduced compared to most materials.

- Reduction of the plate weight
- More chamber volume in the filter press
- More filter area in the filter press

Linear extension:

The linear thermal expansion is close to steel. As a result, no precautions are necessary to compensate changes in length should in temperature changes occur.

Chemical resistance:

Similar to PP, even suitable for the petrochemical industry.

ATEX-zones:

Due to the antistatic effect of the carbon, the plates are well suited for plants that require ATEX-zones.

The carbon filter plate is also available in a so-called sandwich design.