

TECHNOLOGY



PILLOW PLATE

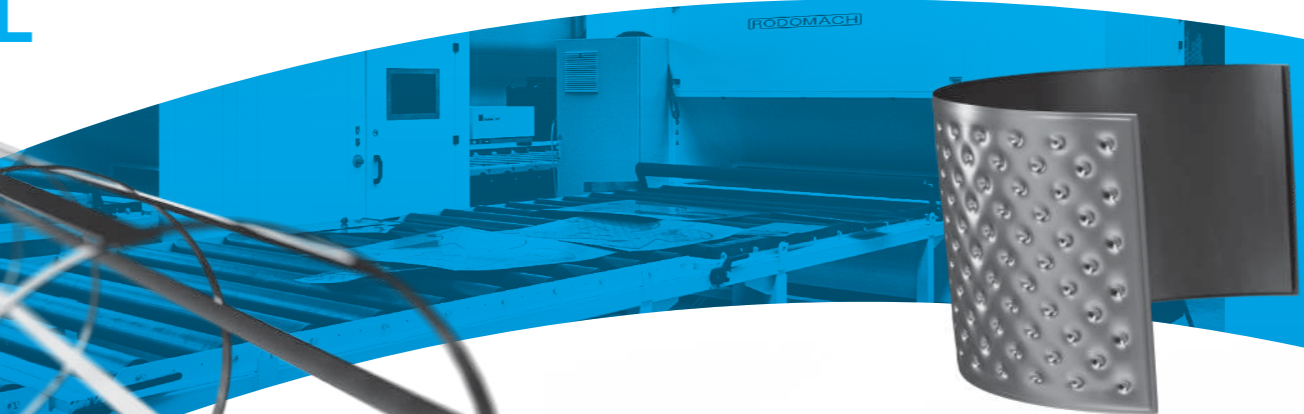
**MODERN
TECHNOLOGICAL SOLUTIONS**

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PILLOW PLATE

MODERN TECHNOLOGICAL
SOLUTIONS

PRODUCT

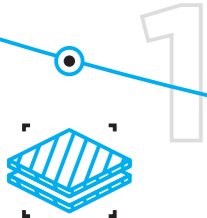


Pillow plates are economic and energy-efficient solution increasingly used in many different sectors of the economy.

Product engineering is considered as innovative but from year to year it gains more and more sympathisers. Using modern constructional solutions we can gain better heat exchange parameters, with the same parameters of thermal factor simultaneously.

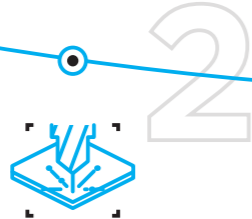
Those are two sheets of inox metal, which are spot welded in a laser chamber. During the production process, two flat sheets are welded together over the entire designated area. The outer contour of the sheet metal is continuously laser welded, creating a tight whole and at the same time a pressure limit at the same time.

PRODUCTION



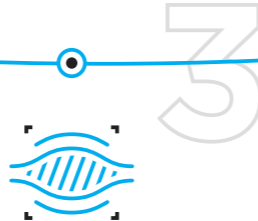
SHEETS OF INOX METAL

Two sheets of stainless steel can be up to 13 meters long, which, combined with the possibility of adjusting them to any shape, allows for the implementation of the most non-standard forms of the final product.



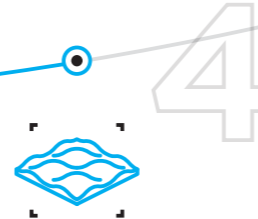
LASER WELDING

Laser welding joins the sheets of steel along the edge lines and pointwise along their entire length. This creates a pressure limit inside the product and marks the places where the so-called pillows are made.



HYDRAULIC FILLING OUT

Gradual filling out hydraulically (with water as a medium) makes the *pillow* construction. The cover has relatively small deadweight load and beneficial thermohydraulic features.



FINAL PRODUCT

The technology of making Pillow Plates is highly safe. The jackets are designed to withstand the required pressures. The thickness and pattern of the connecting weld are selected to meet all flow and pressure requirements.

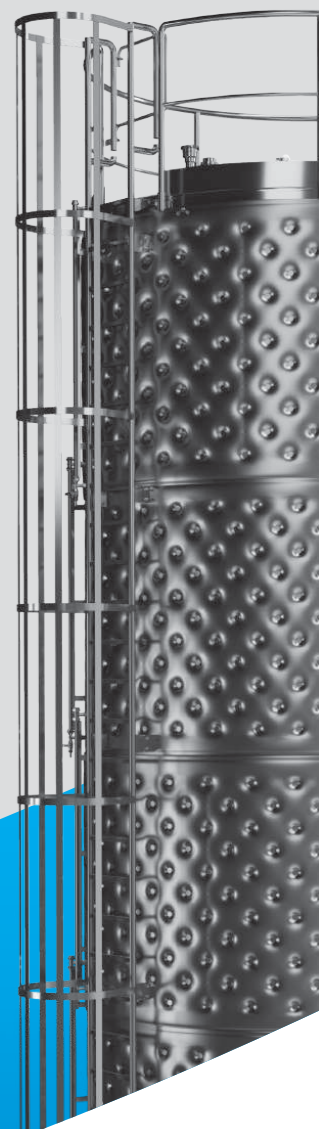
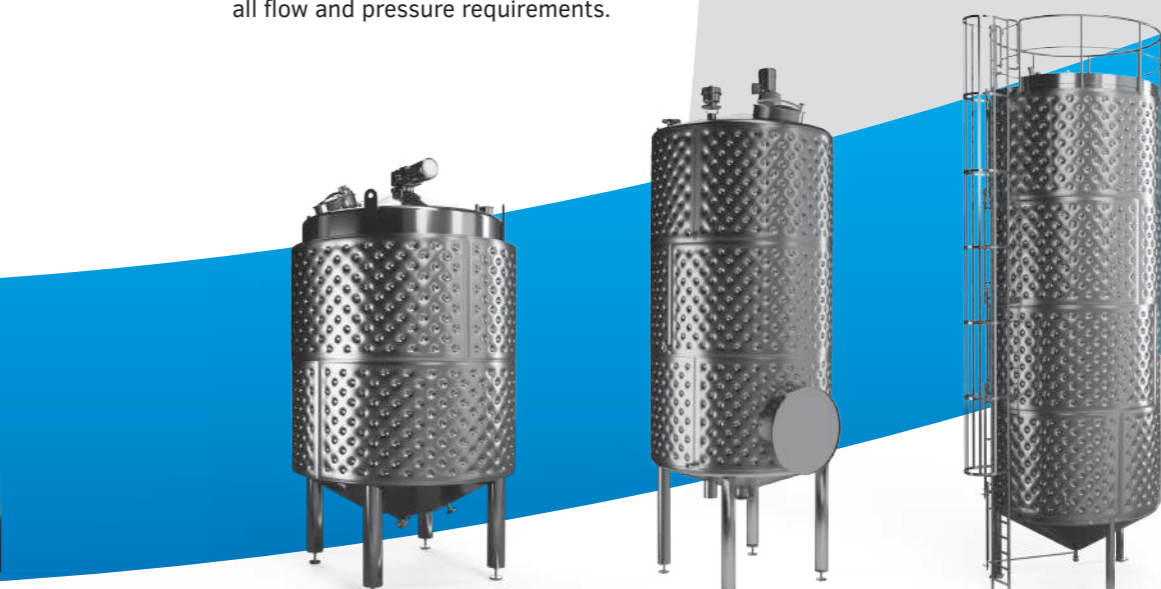
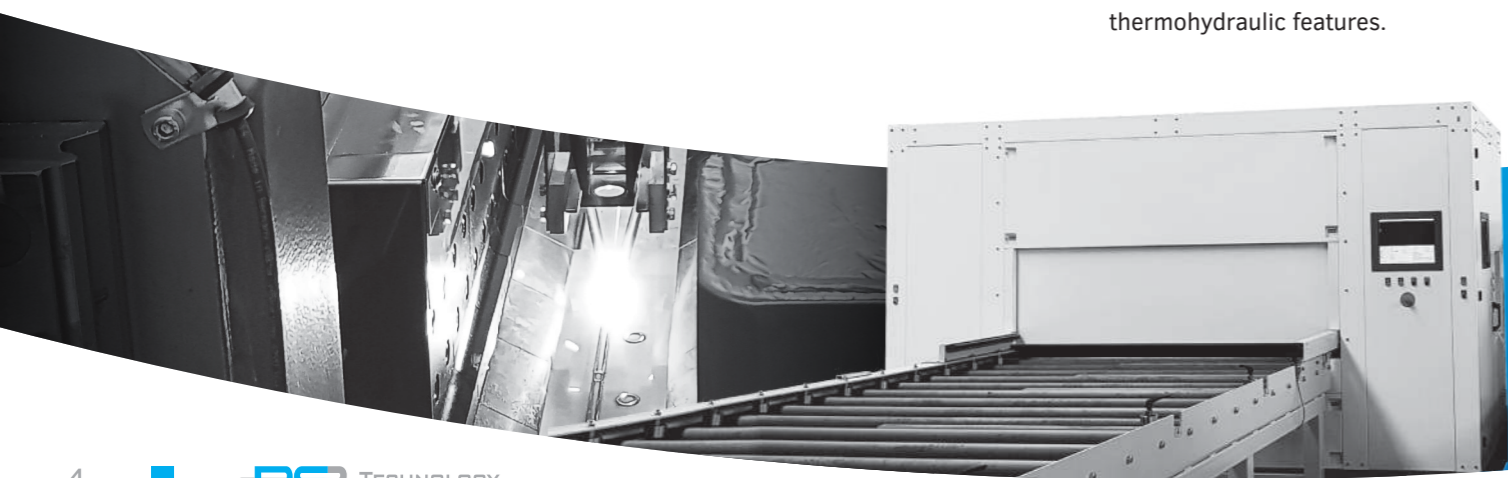
Pillow Plates are used in many industries, such as:

- Food industry
- Dairy industry
- Brewing industry
- Chemical industry
- Pharmaceutical industry

Due to their properties, they are used in the production of:

- Tanks
- Formed sheet metal covers
- Tank bottom plates
- Heat exchangers
- Heaters
- Cooling stations

...and many other devices.



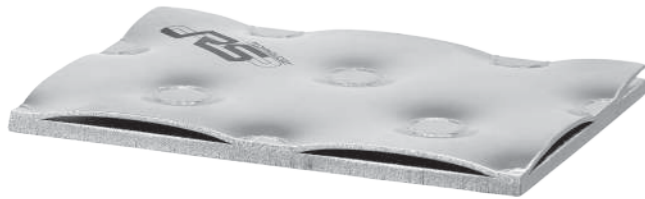
TYPES

Pillow plates are produced to order, according to our client's needs. They are attuned regarding: the particular substance which will be heated or cooled down, used medium, shape, dimension and few other parameters.

Metal sheets are available in many different sizes which enables us to fit the width and length of the product for the particular order without the problem.

SINGLE-EMBOSSED

SHEETS



The lower sheet is the working sheet in contact with the product, the upper sheet is the working sheet, hydraulically expanded in which the heating and cooling medium flows.

DOUBLE-EMBOSSED

SHEETS



They consist of two metal sheets of the same thickness. Hydraulic pumping makes the so-called *pillows*, which are created on both sides.

BENEFITS

Advantages of Pillow Plates made in our factory:

- Metal sheets unfolded on their own cutting line
- Extraordinary length – up to 13 m in one metal sheet
- Non-standard shapes, many different patterns, possibility of shapes individualization
- Possibility of edge welding – guarantee for full tightness and hygiene
- Possibility of filling out in our company
- Possibility of spin forming (in case of tank bottom plates or Pillow Plates)
- Cost minimisation
- Optimisation of thermal processes
- High pressure resilience - up to 350 bars
- Production in less than 48h on a special order





RSTECHNOLOGY ADAM RACHFAŁ

Jagieła 323

37-203 Gniewczyna Łańcucka

✉ pillowplate@rstechnology.pl

☎ +48 16 677 47 66

🖱 www.rstechnology.pl

