

## Heat exchangers



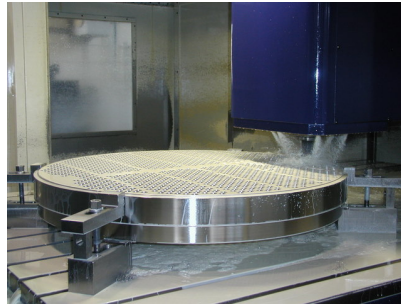
The different type, size and pressure rate tubular equipment, liquid and air coolers have a remarkable position in the product line of pressure vessels. Our products can be used in various fields, they are present in the field of food and chemical industries, as well as in the energy sector.

### Design codes:

- EN 13445
- AD 2000
- ASME VIII. Div.1
- other directives and codes: PED, TEMA R

### Acceptable general conditions of size and weight:

- diameter: 4500 mm
- length/altitude: 20 m
- weight: 60 t



### Frequently used sizes of heat exchangers:

- nominal diameter: 1500-2000 mm
- total length: 8500-14000 mm
- weight: 25-40 t

The maximum thickness of sheet-metal to roll:  
60 mm ~acc. to 600 mm width of sheet

### Frequently used sizes of sheet-metal:

- 1500-2000 mm wide
- 14-40 mm thick

### Classes of workable materials:

- carbon steel
- low alloyed/creep resistant steel
- austenite/ferrite stainless steel
- duplex stainless steel

### Frequently used quality of sheet-metal/ forged steel/tube:

EN, and materials acc. to DIN:

- carbon steel: P265GH, P355GH / P280GH, P355QH1 / P235GH, P280GH
- low alloyed/creep resistant steel: 13CrMo4-5
- austenite/ferrite stainless steel: 304, 316L, 316Ti, 321
- duplex stainless steel: 1.4410

### ASME materials:

- carbon steel: SA516 Gr.60, Gr.70 / SA105, SA266 / SA106 Gr.B
- low alloyed/creep resistant steel: SA387 Gr.11 / SA182 F11 / SA335 P11
- austenite/ferrite stainless steel: 304, 316L, 316Ti, 321
- duplex stainless steel: S32750

Plating can be done with the thickness of 3-15 mm, its material:

- stainless, ex.: 316L
- duplex, ex.: S32750
- noniron-metal, ex.: N08028

