

INDUSTRIAL
HEAT EXCHANGERS

TEMA



FOR OVER 30 YEARS
WE HAVE BEEN IMPROVING
OUR PRODUCTS,
IN ORDER FOR YOU TO BE
**CERTAIN THAT YOU'VE
MADE THE BEST CHOICE.**

OUR STORY

Since 1988, we've been inspiring people to save our planet's resources through effective heat exchange. With our reliable heat exchangers, systems improve performance. Our innovative approach, combined with our engineers' passion, enables our customers around the world to reduce costs, save time and make a difference for the environment. Their satisfaction is our pride and an acknowledgment of our brand's quality.

OUR COMMITMENT

Our priority commitment is to design the most efficient heat exchange solutions. With this approach, we are confident to provide our customers with optimum care each time, offering high quality products and structural solutions.

Hexonic, with its headquarter in Poland, is present worldwide thanks to its subsidiaries and over 500 distributors worldwide.



INDIVIDUAL APPROACH

Individual projects require an individual approach each time, starting from preparing the offer to the implementation of the project, purchase of materials, planning, production and delivery to the customer. Every project is different and therefore requires unconventional actions and focus of responsibility and competence at every stage in one place – the Business Unit of Industrial Heat Exchangers. This enables us to develop the structure of this team, professional, quick and efficient response to the needs of customers and the market.



ADVANTAGES



EXPERIENCED TEAM OF PROCESS ENGINEERS
PROVIDE OPTIMAL SOLUTIONS



A QUALIFIED TEAM OF ENGINEERS TAKE
CARE OF THE COMPLIANCE OF THE
DOCUMENTATION WITH APPLICABLE
REGULATIONS FOR PRESSURE EQUIPMENT



POSSIBILITY TO MANUFACTURE
PROCESS PIPES WITH WELD SEAM
MADE OF ALLOY STEEL



A FLEXIBLE ROBOTIC WELDING
SYSTEM FOR WELD OVERLAY
CLADDING (TUBESHEETS TILL
1800 MM)



ORBITAL WELDING
OF PROCESS PIPES



EXPERIENCED
PRODUCTION TEAM



MODERN
MACHINE PARK



HIGH
QUALITY



DELIVERY
ON TIME



SELECTION

WE UNDERTAKE COMPLEX AND TECHNOLOGICALLY CHALLENGING PROJECTS.

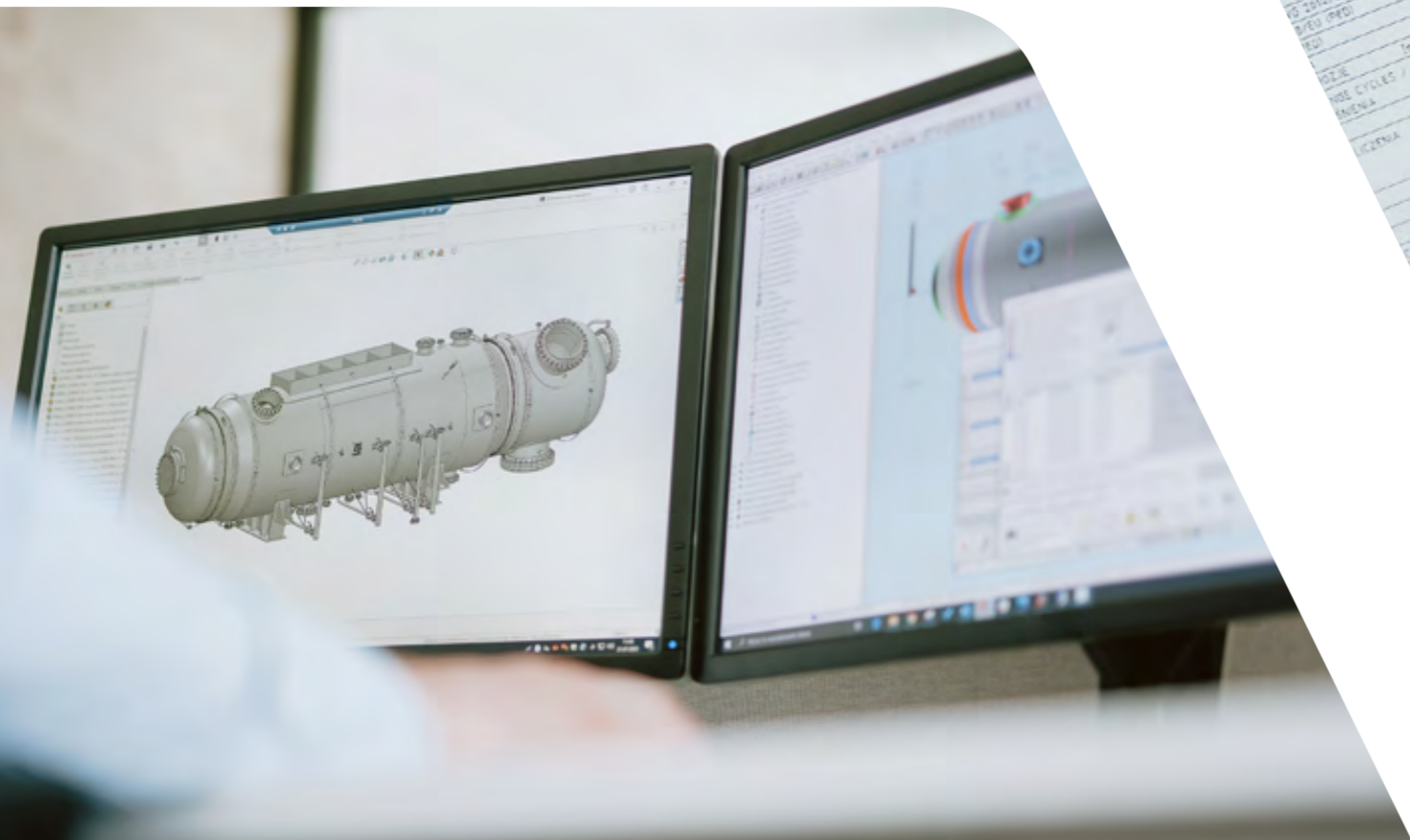
Using state-of-the-art software, we are able to simulate any heat exchange process in order to find an optimal solution. The heat exchangers we design and manufacture operate successfully at power plants, combined heat and power plants, industrial heating and cooling systems, cellulose plants, chemical plants, refinery plants and many others.

Advanced industrial technology and own device manufacturing guarantee high quality products. Experienced team of designers constantly works on designing state-of-the-art and efficient devices, adjusting them to customer requirements.



DESIGNING

The team of experienced Hexonic engineers drafts the execution design and accompanying calculations, such as thermodynamic calculations and tube bundle vibration analysis with AspenTech ONE, strength calculations with Visual Vessel Design, and computational flow analysis (Computational Fluid Dynamics).





WE CONDUCT QUALITY CHECKS OF OUR PRODUCTS WITH SPECIAL DILIGENCE.

Experienced team of internal inspectors conducts non-destructive and destructive testing, such as dye penetrant inspection (PT), eddy-current testing (ET), visual testing (VT), surface roughness testing, macroscopic testing, analyzing chemical composition of metals (PMI testing), hardness testing (HT).

We commission X-ray examination (RT), ultrasound testing (UT), impact testing and magnetic-particle testing (MT) to leading research laboratories.

QUALITY CONTROL

The quality of our products is confirmed by certificates and approvals renowned and accredited Notified Bodies, such as:

- UDT
- LLOYD'S REGISTER
- TÜV NORD
- DET NORSKE VERITAS (DNV)
- NATIONAL BOARD

CERTIFICATES

- ASME U, UM
- PED 2014/68/EU
- CHINA ML
- IS O9001
- ISO 3834-2
- 3-A
- EAC
- NB

MATERIALS

— CARBON STEEL

— STAINLESS STEEL

— DUPLEX STEEL

— TITANIUM

— MONEL

— COPPER

— INCOLLOY

— OTHER



THE SKY'S THE LIMIT

We are ready for any challenge. We can make the the heat exchanger from any steel available on the market.

PRODUCTION

TECHNOLOGICALLY ADVANCED MACHINE STOCK, MANY YEARS OF EXPERIENCE AND RENOWNED MATERIAL SUPPLIERS ALLOW FOR EXCHANGER MANUFACTURING ON THE HIGHEST LEVEL.

WE MANUFACTURE STEAM CONDENSERS, PROCESS LIQUID/ GAS HEATERS AND COOLERS, CONTAINERS AND OTHERS.



DELIVERY



PROPERLY PREPARED
AND SECURED DEVICES START
THEIR JOURNEY TO CUSTOMERS
AROUND THE WORLD.

PRODUCTION CAPABILITIES



PRODUCTION HALL
4500 M²



MAXIMUM SHELL DIAMETER
5,500 MM



MAXIMUM LENGTH OF THE DEVICE
30,000 MM



MAXIMUM WEIGHT OF A SINGLE DEVICE
80 T

REALIZED PROJECTS

REFINING INDUSTRY

MAX. TEMPERATURE
TUBES SIDE — 210°C
SHELL SIDE — 260°C

MAX. PRESSURE
TUBES SIDE — 8 BAR
SHELL SIDE — 10 BAR

WEIGHT — 9 780 KG
HEAT TRANSFER AREA — 410 M²
MATERIAL — 1.4404(316L)/P295GH



PULP AND PAPER INDUSTRY

MAX. TEMPERATURE
TUBES SIDE — 200°C
SHELL SIDE — 200°C

MAX. PRESSURE
TUBES SIDE — 12 BAR
SHELL SIDE — 12 BAR

WEIGHT — 8 600 KG
HEAT TRANSFER AREA — 140 M²
MATERIAL — 1.4404(316L)/P265GH



MAX. TEMPERATURE
TUBES SIDE — 200°C
SHELL SIDE — 200°C

MAX. PRESSURE
TUBES SIDE — 16 BAR
SHELL SIDE — 16 BAR

WEIGHT — 9 145 / 4 020 KG
HEAT TRANSFER AREA — 156 / 54 M²
MATERIAL — P265GH



MAX. TEMPERATURE
TUBES SIDE — 220°C
SHELL SIDE — 220°C

MAX. PRESSURE
TUBES SIDE — 25 BAR
SHELL SIDE — 16 BAR

WEIGHT — 2 835 KG
HEAT TRANSFER AREA — 96 M²
MATERIAL — 1.4462(32205)



REFRIGERATION



MAX. TEMPERATURE
TUBES SIDE — 60°C
SHELL SIDE — 60°C

MAX. PRESSURE
TUBES SIDE — 10 BAR
SHELL SIDE — 11 BAR

WEIGHT — 4 500 KG
HEAT TRANSFER AREA — 310 M²
MATERIAL — 1.4462(32205)/P265GH



MAX. TEMPERATURE
TUBES SIDE — 61°C
SHELL SIDE — 88°C

MAX. PRESSURE
TUBES SIDE — 10 BAR
SHELL SIDE — 11 BAR

WEIGHT — 5 450 KG
HEAT TRANSFER AREA — 440 M²
MATERIAL — 1.4462(32205)/P265GH

POWER
INDUSTRY

MAX. TEMPERATURE
TUBES SIDE — 200°C
SHELL SIDE — 200°C

MAX. PRESSURE
TUBES SIDE — 49 BAR
SHELL SIDE — 3 BAR

WEIGHT — 5 600 KG
HEAT TRANSFER AREA — 80 M²
MATERIAL — 1.4541(321)/P265GH



MAX. TEMPERATURE
TUBES SIDE — 150°C
SHELL SIDE — 300°C

MAX. PRESSURE
TUBES SIDE — 20 BAR
SHELL SIDE — 5 BAR

WEIGHT — 60 000 KG
HEAT TRANSFER AREA — 3 092 M²
MATERIAL — 1.4307(304L)/P265GH

CHEMICAL INDUSTRY

MAX. TEMPERATURE
TUBES SIDE — 100°C
SHELL SIDE — 175°C

MAX. PRESSURE
TUBES SIDE — 8 BAR
SHELL SIDE — 6 BAR

WEIGHT — 645 KG
HEAT TRANSFER AREA — 25 M²
MATERIAL — 2.4858 (INCOLOY 825)



SEWAGE TREATMENT PLANTS

MAX. TEMPERATURE
TUBES SIDE — 80°C
SHELL SIDE — 80°C

MAX. PRESSURE
TUBES SIDE — 8 BAR
SHELL SIDE — 8 BAR

WEIGHT — 1 405 KG
HEAT TRANSFER AREA — 19 M²
MATERIAL — 1.4404(316L)/1.4307



MAX. TEMPERATURE
TUBES SIDE — 320°C
SHELL SIDE — 600°C

MAX. PRESSURE
TUBES SIDE — 60 BAR
SHELL SIDE — 0,5 BAR

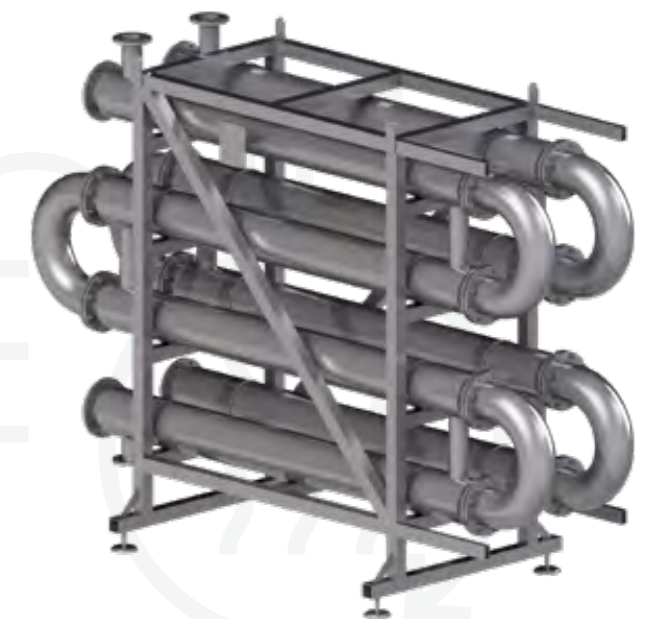
WEIGHT — 20 250 KG
HEAT TRANSFER AREA — 690 M²
MATERIAL — 1.7380 (10CRMO9-10)1



MAX. TEMPERATURE
TUBES SIDE — 80°C
SHELL SIDE — 80°C

MAX. PRESSURE
TUBES SIDE — 8 BAR
SHELL SIDE — 8 BAR

WEIGHT — 1 405 KG
HEAT TRANSFER AREA — 19 M²
MATERIAL — 1.4404(316L)/1.4307



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