



HOME OF
TANTALUM



HOME OF TANTALUM

WE MAKE THE BEST OF TANTALUM

We gave a home to the element tantalum by building the “Home of Tantalum” in Tantalstrasse in Gelnhausen where we expressed our passion and pure enthusiasm for the material tantalum.

The building’s modern architecture gives some hints to the material to which we have dedicated our activities. Our modern administration building is a cube with a length of 16.6 meters each side, symbolizing the density of tantalum (16.6 g/cm³). The volume of the “Hills of Tantalum” extending behind the

cube corresponds approximately to the global production of tantalum ore until now. The “Home of Tantalum” is also the new home of Tantalus who lent his name to the material and whose man-sized sculpture flanks the administration building.

The modern production halls on our premises enable our highly specialized employees to create the best for our customers.

For us, tantalum is more than a material - it is our passion.

Innovative Solutions AS INDIVIDUAL AS OUR CUSTOMERS.

WELCOME TO TANTEC

Tantec - The Tantalum Company - is the only company worldwide that focuses entirely on tantalum.

Due to our staff's vast experience in processing tantalum and our know-how in engineering, construction, production and service we aim at offering and delivering perfect components and equipment made of tantalum.

Our engineering comprises not only the process design of heat exchangers but also the strength calculation of the equipment according the global standards such as ASME, TEMA, TRD and AD2000 as well as the entire design with state-of-the-art CAD programs.

As an internationally active company we are also accredited accordingly for e.g. AD 2000 – HPO, PED97/23EC, ASME/U-Stamp, National Board/NB-U/R and possess the Manufacturing License of P.R. China for the components produced by us.



TANTALUM IN THE SPOTLIGHT

The Tantec team develops, designs and manufactures tantalum components and equipment that are number one in international comparison. Tantec combines the performance of a professional industrial company with the manual skills and the flexibility of a manufactory of investment goods.

Flat hierarchies ensure short-term decisions and fast implementation of your requests. The solid positioning of our company on the market provides the security of having Tantec as a competent partner in future who works on your solutions offering advice and action.

Our experts look forward to giving extensive advice based on our know-how and technical expertise.

When Quality AND PASSION DEFINE STANDARDS.

TANTEC'S QUALITY

As the leading company in the processing and treatment of tantalum, TanteC sets the quality standards. Each of the components we produce is subjected to the most stringent quality control measures possible. Not only does this involve step-by-step process inspections and final inspections, but incoming components inspections of our semi-finished goods also play a decisive role in ensuring the quality you expect.

Our pressure equipment is naturally subjected to pre-inspections and final inspections by the relevant accredited monitoring organization, determined by you. Every day, our employees work exclusively with tantalum. This is reflected by the excellent quality as our employees do not handle different material properties. Furthermore, the production facility is optimized for tantalum.

TANTEC
PRODUCTION



2,500m²
Tantalum Equipment Manufacturing

300m²
Mechanical Tantalum Manufacturing

TANTEC
TEAM



Perfection is THE SUM OF COMPETENCES.

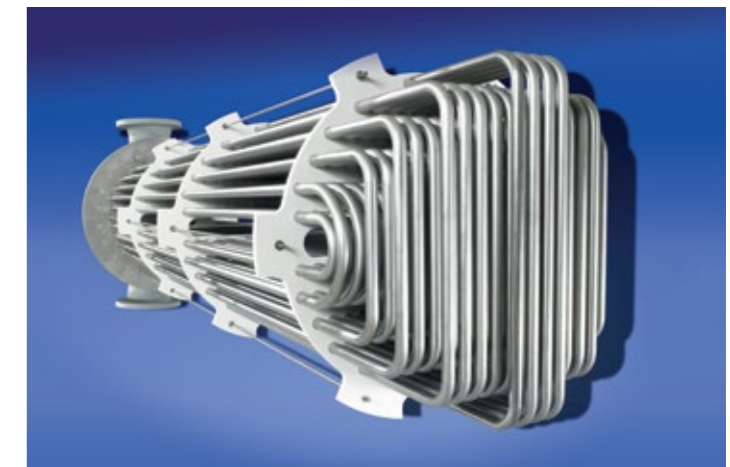
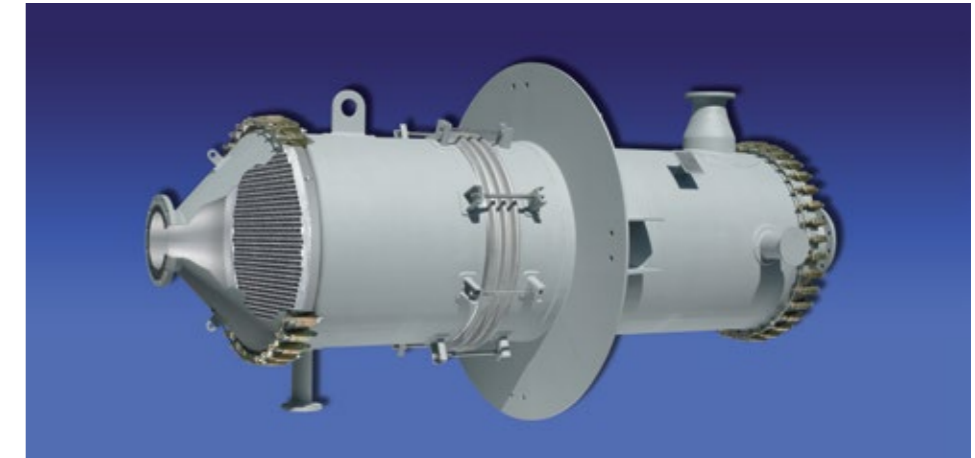
PRODUCTS BY TANTEC - TAILOR-MADE IN GERMANY

There are no standard products in our market. Nevertheless we manufacture each of our products - heat exchangers, equipment or other components - according to industrial quality standards.

Tailor-made in Germany means that we do not only develop the requested equipment and components for you but also that we take all intermediate steps. All this can only be achieved due to our employees' high level of knowledge and expertise. For this reason, we are certified for the complete manufacturing process.

Tantec manufactures your individual equipment from tantalum:

- Heat exchangers
- Columns (loose lining, CounterVac System, explosion-cladding)
- Internals
- Piping, spools and fittings
- Protective and repair parts
- Semi-finished products made of tantalum



Tantalum does not only mean **EVERYTHING TO US.** **IT IS THE ONLY THING FOR US.**

TANTALUM – LOW COST AND VERSATILE IN USE

Tantalum is seen as a comparatively expensive material. However, tantalum is very economical as soon as the significantly longer service life and the very low maintenance expenditures compared to other materials are taken into account.

The common metallic materials are often less suitable due to a high corrosion rate when acids such as sulphuric acid (H_2SO_4), nitric acid, (HNO_3), hydrochloric acid (HCl), phosphoric acid (H_3PO_4) are processed at high temperatures and high concentrations. In such cases tantalum is the first choice for heat exchangers and other equipment.

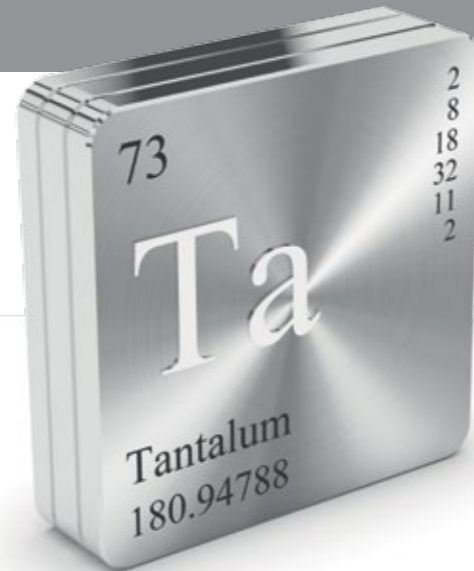
Non-metallic materials can often be discarded because of their disadvantages, for example for processes in the pharmaceutical industry where product purity has utmost priority.

When looking at the entire lifespan of your equipment “total cost of ownership” (TCO), there is a permanently positive effect on costs.

Tantec Cash-Back – a unique offer

Tantalum's very good thermal conductivity combined with the very small wall thickness and its inertness constitute further advantages. Due to its non-corroding properties tantalum is a very valuable material, underpinned by our guarantee that we take back tantalum parts after long years of operation.

The material can be recycled any number of times, and in this way TANTEC is able to make a contribution to introducing valuable raw materials to new applications, rather than disposing of them.



TANTEC SERVICE – SATISFIED CUSTOMERS THROUGHOUT THE WORLD

Service is not only a slogan for us. We are able to optimize your project due to our longstanding experience. Production aligned with the specific requirements for processing tantalum ensures professional accomplishment on the highest level of quality.

Our comprehensive Tantalum storage ensures us to be able to deliver as quickly as possible. Tantec is always the right place to start when dealing with Tantalum. We develop individual solutions tailored to fit your requirements in close consultation with you.



“Say what you do AND DO WHAT YOU HAVE SAID.”

This is Georg Raab's motto who has been working with tantalum since the end of his apprenticeship in 1976.

Tantec GmbH is the only company worldwide specializing exclusively in the production of components and equipment made of tantalum. This, in conjunction with the fact that we exclusively produce in Germany, is the basis of our extraordinary quality standard which has made us world market leader.

This fills us with pride. However, it is also an obligation towards our customers, suppliers, colleagues and all who know us. We now have to consolidate what we have achieved, define further goals and not to lose sight of our actual mission and to fulfill it: “To create and build the best equipment made of tantalum that money can buy”.

Extraordinary performance can only be rendered if you focus on one single task. This means for us: the focus on processing tantalum. Only what I do on an everyday basis I am sure to master. And only when I master all the details the end result will be perfectly whole.

This applies to the factory but also to the technical and commercial areas. The construction of a component made of tantalum differs in content and detail from the construction of a component made of another material. Here, too, the motto “think tantalum” applies and must be implemented.

That's what we do at Tantec - every single day!



SOCIAL RESPONSIBILITY

However, we have to achieve economic success as well. Economic success secures the investments that must be undertaken to enable further innovations. We have invested a lot of money into our new premises in Tantalstrasse in Gelnhausen. This “Home of Tantalum” is unique and dedicated solely to tantalum, its myth and to the people who process this wonderful material.

But economic success is also the basis of our social commitment. Many national and international organizations rely on companies being willing to give. All this has the purpose to make our world a little bit better.

People who are privileged are obliged to help others who need support. This applies to the direct environment, to families, cities, communities and the country. But we must also assume responsibility on an international stage. That is what we do at Tantec by conviction.

Georg Raab
Managing Director Tantec GmbH

Tantec GmbH
Tantalstrasse 1 - 3
63571 Gelnhausen
Germany

Tel: +49-6051-88479-0
Fax: +49-6051-88479-66

Mail: info@tantec-group.com
Web: www.tantec-group.com

Tantec USA LLC
334 Country Club Dr B
Simi Valley, CA, 93065
USA

Tel: +1-805-216-6661
Fax: +1-805-426-8116

Tantec France Sarl
250, Pré à Varois
54670 Custines
France

Tel: +33-9-50680030
Fax: +33-3-83492799

Tantec China Co., Ltd.
Room 703-704,
Changle Plaza, No.8,
Lane 1310, Dingxi Road
200050 Shanghai
P.R. China

Tel: +86-21-67280321
Fax: +86-21-67286628

