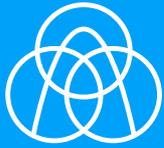


# Special Materials

Supply of high-grade  
and hard-to-find metals

Materials as a Service



thyssenkrupp



# About thyssenkrupp Aerospace Netherlands

## Our value proposition for Materials as a Service

thyssenkrupp Aerospace Netherlands is a company that's part of the thyssenkrupp Aerospace Group. It has the expertise and industry leading knowledge to advise and supply our customers with a comprehensive range of high-grade metals.

Our value proposition includes a wide range of supply chain and manufacturing services for partners in demanding and industries such as Aerospace, Motorsports, Power Generation, Semiconductors and High Technology. We procure, store and process raw materials to meet our customers' precise specifications.

Given today's immense competitive pressure on production to be fast, cost effective and of the highest standards, we understand the enormous challenges for manufacturing companies in the industries we serve. As their partner, our customers expect us to excel through reliability, best prices, on-time delivery and excellent material quality.

thyssenkrupp Aerospace Netherlands is the perfect choice to be your reliable service partner.

We have years of experience serving customers around the world. As part of the thyssenkrupp Aerospace group, we are perfectly positioned to be your dedicated and competent partner when it comes to special materials, even in small quantities.

Our focus is on creating long-term, stable business relationships. By working closely with our customers, we are able to identify changing demands and needs at an early stage, enabling us to create the best solutions possible. We do not just meet demands – we surpass expectations. That is embedded in our philosophy. Our objective is to support our partners to become stronger and more profitable.



# Materials

## Supply of high-grade and hard-to-find metals

Our comprehensive service portfolio allows us to satisfy a wide range of material demands, regardless of form or quantity. The wide range of materials, shapes and sizes allows us to take into account the requirements of the entire industry, national guidelines, and even very specific customer specifications. Additionally, we have relationships with the leading mills to accommodate special requirements for extra sizes or unusual quantities. By focusing on your material and information flows, we are able to optimize our supply processes for raw and finished materials. If needed, we can also offer material supplies for an entire program, consistent in quality and based on international service standards.

Our product range includes aluminium, titanium, steel, aluminium bronze, nickel and copper alloys as well as non-metallic materials in every form and type:

- ⊕ 300M, 4340, 4330, 4130
- ⊕ 13-8MO, 17-4PH, 15-5PH
- ⊕ Custom465
- ⊕ Toughmet
- ⊕ Inconel
- ⊕ Titanium grade 5 sheets, bars and forging
- ⊕ All different AMS, DIN, WN, LN, AMS, BS, MSRR, AFNOR specs

Our integrated network of state-of-the-art facilities allows us to keep supply routes short all across the world. Since we work with the world's leading material producers, we can guarantee that our material supply is always available. Our just-in-time strategy supports smooth and seamless production processes and reduces warehousing for our customers.

Our inventory strategy makes allowances for unscheduled developments and puts us in a position to supply the required materials, even at short notice. Thanks to strategic procurement planning in combination with our close contacts to suppliers, we help our customers improve cost efficiency.

# Services

## We add value to your business with our customized services

Our value proposition is to offer our customers an excellent, customized service that takes their business forward. We thoroughly understand your individual requirements and demands about special materials which are hard to get in small quantities. We deliver them fast to keep your prototyping up to speed and your production up and running. You can also leave it up to us if there are any shortages in your production. We'll find a solution as quickly as possible. As a result of the market uncertainties many industries face, we are there to provide support to our customers when it comes to flexibility, adaptability and short-term changes in production.



If you don't see what you're looking for in the list, please contact us and we will find a solution.

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# Soil decontamination

## Challenge

Saving time and materials when detecting explosives

As much as we may regret it, we are living in a world of armed conflicts which cause plenty of suffering. The soil in the affected areas is often contaminated by Conventional Explosives (CE). One of our customers is active in the detection of CEs. They use standard steel tubes and penetration tips that showed wear and tear and needed to be replaced very often. This caused loss of time, high material waste and significant costs.

## Our Solution

We advised our customer not to buy big quantities of this material and offered to exchange the material whenever it was necessary. We supply tubes and tips made of titanium grade 5 as a finished product ready to use.

## Benefit

Our solution not only led to considerable cost savings for our customer, but also contributes to sustainability and resource conservation due to just-in-time material supply.



# Semiconductor

## Challenge

Supply and quality control of special titanium sheets

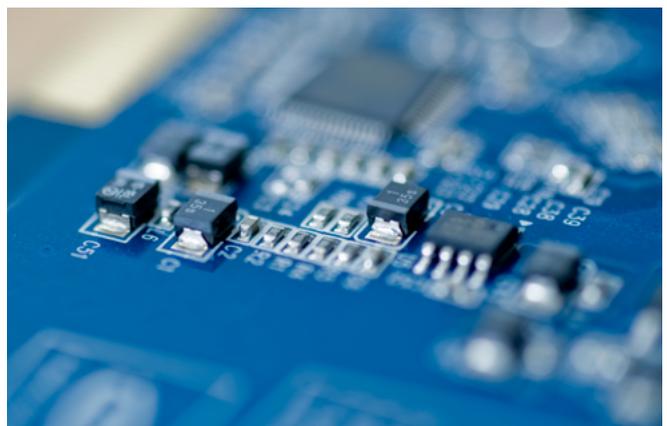
We are addicted to smartphones, apps and fast communication everywhere all around the globe. The competition in the semiconductor industry is high with all the players in the market striving to supply the smallest yet most powerful chips with the highest storage capacity. For this, one of the world leading manufacturers in the industry requires very thin (0.2 mm) titanium grade 5 sheets with a very high tolerance – a material that is not available as a standard material. For this reason, its base material requires a long delivery time.

## Our Solution

We recommended to source thin sheets directly from one of the world's best titanium sheets mills and we machined them down to the required specifications. This requires a strong focus on quality control and supply chain management.

## Benefit

Our customer benefits from a stable supply chain that ensures the availability of the material they need at the highest level of quality possible.





# Space

## Challenge

### High-grade materials for satellite application

The satellite industry is booming. We support the visionaries going into space. The space industry is a very good example of a high amount of various materials with very low volume requirements. Materials need to comply to highest aerospace standards but are often rare and “hard to find” for quantities far below the minimum mill quantities.

## Our Solution

thyssenkrupp Aerospace maintains an extensive stock of various materials and specifications worldwide and features an extensive network of suppliers. We are able to supply a wide range of material sourced from various locations, including all logistical arrangements and (if applicable) import procedures to supply materials directly to your warehouse.

## Benefit

Our customers can cover all of their requirements from one source, while also enjoying a “one-stop-shop” type of service. Requested material is delivered in one go (or in smaller batches, if requested) without worries regarding different currencies, transport and custom clearance. They also benefit from our material knowledge, advice on better materials, availability and quality.



ArabSat Artist View Stars ©Airbus

# The thyssenkrupp Aerospace network

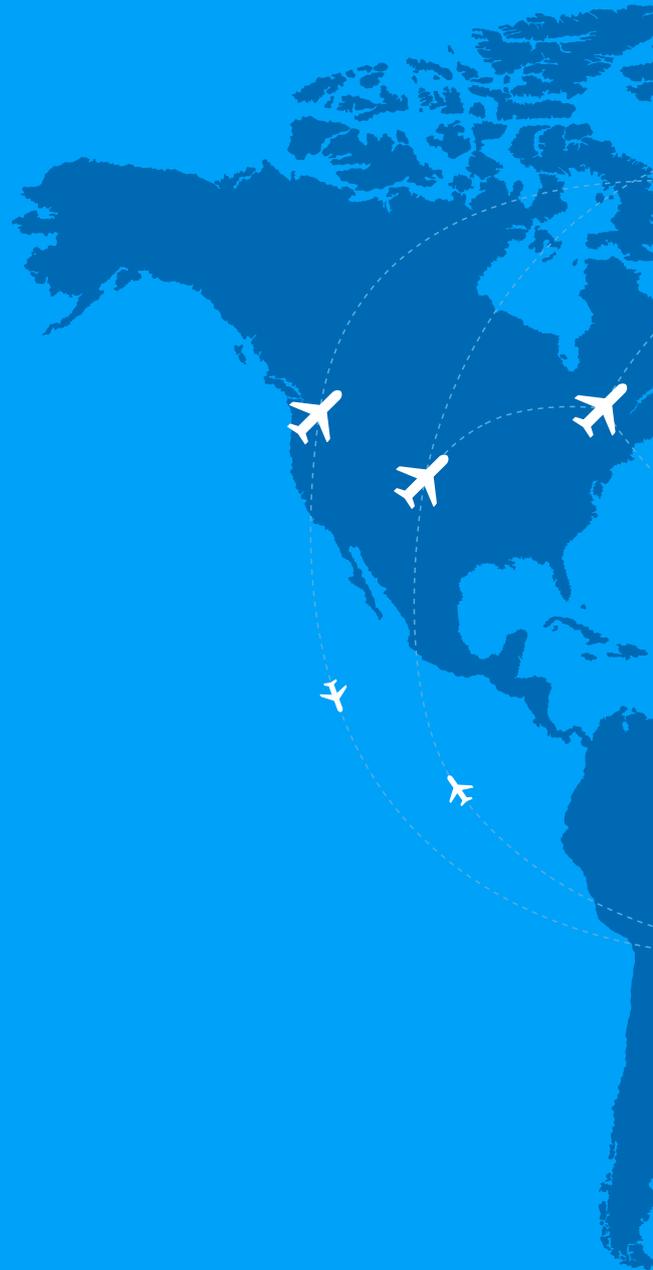
Your global partner for customized solutions

thyssenkrupp Aerospace Netherlands is a company within the thyssenkrupp Aerospace Group. As a global enterprise, we are part of the worldwide thyssenkrupp network. A strong global network and the outstanding commitment of our employees make us the chosen partner in the Aerospace industry and among their suppliers. Our team ensures that our customers receive customized materials, services and efficient supply chain solutions, all designed to help their business grow.

Using our extensive knowledge about markets and the industry, thyssenkrupp Aerospace supports your business and program around the globe. Since we believe in long-term strategies, we create strong partnerships that enable us to offer the best solutions for your supply chain, including cost reduction, guaranteed supplies, outsourced inventory and processes that are more effective.

Operating from the Americas, Asia Pacific, Europe and North Africa, gives us the advantage of proximity. Our strong local presence allows us to cooperate closely with our customers and their subcontractors, while gaining an in-depth appreciation of their specific needs. Based on our global presence in 20 countries, we are able to offer an unmatched logistics infrastructure to support customers and their operations around the world.

Our locations have been approved according to EN/AS 9100 and/or EN/AS 9120 standards by the world's leading Aerospace certification companies. Our employees are well trained to meet our customers' quality expectations, ensuring full batch traceability of every item we supply. We are also involved in a number of environmental initiatives and are in the process of fulfilling the requirements of ISO 14001 at all of our sites, based on thyssenkrupp Aerospace company policies.





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