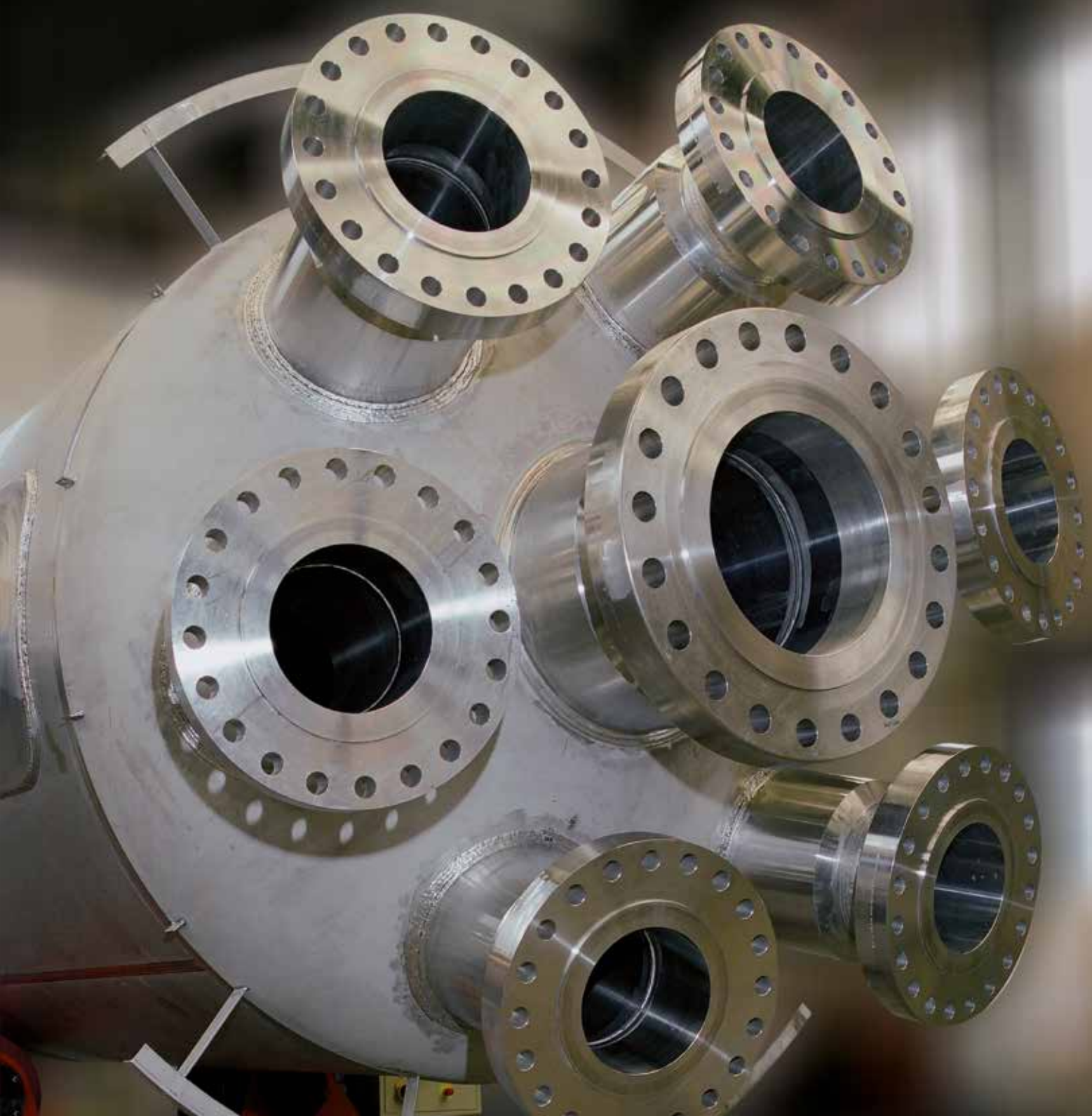




# FIB *industries*

Process and pressure containing equipment

an **ANDUS** group company



# FIB Industries

## Complete service

FIB Industries has grown over the past 70 years to become a major player in the process and pressure containing equipment market. Alongside general apparatus engineering, FIB specialises in delivering specials for renowned customers. All over the world, FIB delivers and installs stainless steel and high alloy materials that are essential components of high tech equipment.

FIB also focuses on developing, building and maintaining cellar beer equipment: complete systems from the brewing stage to the tapping. The FIB beer system has been thought out into its smallest details and further developed into what perhaps is the most intelligent beer delivery concept in the world.

## Markets

FIB Industries mostly has contact with the end user via OEMs or EPC contractors - or a combination of them. FIB is working in the following markets:

- Petrochemical industry
- Chemical industry
- Offshore
- Pharmaceutical industry
- Paper industry
- Food industry

## Ultra-modern plasma cutting and welding robot

The professionalism and expertise in FIB Industries' manufacturing process spearheads the organization.

Work is smart and precise due to extensive knowledge of materials. An extra dimension was added recently: an ultra-modern plasma cutting and welding robot, unique in the Netherlands.

This robot enables fully automated cutting and welding of connections in dished heads and cylinders. It is controlled by software that derives its data directly from the 3D design drawings. Errors are minimized and strict dimensional tolerances are the result. This enables FIB to carry out highly efficient serial production runs.





## Specifications made to measure

The quality of FIB products starts with the quality of the consultation and the engineering.

The project leaders, engineers and planners are very closely involved from the beginning to the end of every project, whether it's large or small, straightforward or complex. And they approach each project with the appropriate level headedness. They possess an outstanding knowledge of manufacturing technology for stainless and alloy steels and know what is required by different industries and processes.

Rough customer specifications are ingeniously converted into products that are fit for purpose, meet code requirements and are "manufacturable". Engineering activities, strength calculations etc. be carried out by sophisticated calculation and drawing programs like finite element analysis and 3D AutoCAD

## Complex equipment: a critical part of a process installation

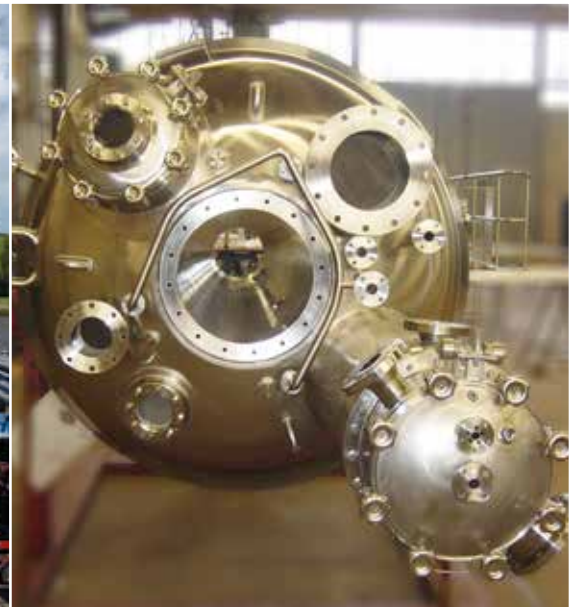
Complex equipment often forms a critical part of a process installation. Examples of critical equipment are:

- Typical equipment: pressure vessels, columns, flare installations and storage tanks.
- Special equipment: gasification burners and low-NOx burners, air intake and outlet systems for gas turbines, DeNoX modules and hydro-processing reactor internals.

## Materials

Throughout the world, FIB installs customized stainless steel and high-alloy products, which are vital components of technically complex installations. The products are made from materials such as:

- Types of stainless steel: 6MO; 254SMO; 1.43xx; 1.44xx; 1.45xx; 1.49xx
- Duplex: Duplex; Super Duplex; Lean Duplex LDX; SAF 2507
- Titanium: as a solid material or as cladding
- Other



## Design codes

Production takes place according to international design codes and quality requirements.

- EN-13445 [PED]
- RToD [Stoomwezen]
- GB-150 (China)
- API-560, 620, 650
- NORSOK
- EN 14015
- ASME SEC. VIII Div. 1,2,3
- CODAP
- AD2000
- PD-5500
- KIWA
- BS 2654

## Certification

- ISO 9001:2008
- Achilles JQS Certificate
- PED D, H, H1
- ASME U & R
- SQL HP-0
- WHG

## Practical information

The combination of modern machinery, highly qualified teams and many years of experience makes FIB a versatile and flexible partner for the process industry. FIB Industries is located in Leeuwarden, the north of the Netherlands, alongside the Van Harinxma canal with access to all major seaports in Western Europe. Large and heavy products can be shipped from our own quay.

**Established:** 1946

**Company premises:** 55,000 m<sup>2</sup>

**Workshop:** 13,500 m<sup>2</sup>

**Maximum diameter:** 9 meters

**Maximum length:** 45 meters

**Maximum weight:** 300 tons

**Maximum height:** 20 meters



## References

- Aker Solutions
- Akzo Nobel
- Avebe
- Barr-Rosin
- Basell
- BASF
- Bayer
- Belco
- BP
- Cabot
- Chiyoda
- Climax
- CB&I
- CRI
- DSM
- Douwe Egberts
- Dow Benelux
- DuPont
- Dynea
- Eastman
- Emmtec
- Eni
- ExxonMobil
- Escher
- Fluor
- Foster
- GE, Haldor
- Topsoe
- Hoechst
- Honeywell
- Huntsman
- Jacobs
- JGC Corporation
- Dr. W. Kolb
- Lanxess
- Lyondell
- Metso
- Pall
- PDVSA
- Royal Haskoning
- Sabic
- Wheeler
- Sasol
- Shell
- SPX Dehydration
- Tebodin
- Technip
- UHDE



# Serving the industry



## Manufacturing

### FIB Industries

Gouda Refractories  
Nedstaal Special Steel  
Van Voorden Castings

## Services & Maintenance

Gouda Vuurvast Belgium  
Gouda Vuurvast Services  
Gouda Feuerfest Deutschland  
ISS Projects Slovakia  
Lengkeek Staalbouw

## Contracting

Armada Janse  
Armada Mobility  
HSM Offshore  
HSM Steel Structures  
RijnDijk Construction

## Part of a greater whole

FIB is part of Andus Group. The subsidiaries of Andus Group have one aim: Serving the industry. And they have one characteristic in common: to be the best within their own specialisation. On specific projects, group companies work together, combining their experience and resources. Andus Group is a company with 1.100 employees and an annual turnover of over EUR 300 million which can realise any industrial project in any segment. The ambition is clear: the Andus Group companies are always aiming to achieve maximum client satisfaction. This requires high quality, experienced and skilled project management and the use of innovative methods when designing, producing and realising projects. That is why Andus Group can continue to further strengthen their possibilities at the top of the different market segments.

In short : Andus Group is a powerful and reliable partner completely geared to your success.



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