

fischer group



Flowing Shapes in Stainless Steel

fischer
group



fischer group at a glance

- ▶ **fischer Edelstahlrohre**
Production of welded
- ▶ **fischer Rohrtechnik & fischer Hydroformmin**
Processing of tubular ever more complex shapes
- ▶ **fischer Maschinentec**
Complete development of tools and manufacturing
- ▶ **fischer eco solutions**
Thermal and chemical manufacture for tri-gas

or Quality

he Complex Component

essential characteristic beyond normal standards.

companies and employees, has always been committed to producing welded stainless steel tubes above and beyond traditional standards, because it completely controls and continually improves its further – from the slit strip to the complex component. The fischer group not only produces stainless steel tubes of first-class quality, but also precisely manufactured complex components but also uses the most advanced equipment. Only in this way can the excellent quality of the production and finishing be continually optimized.



WZ 520 HH 4



ISO 9001:2008 | ID:0910170483



ISO/TS 16949:2009 | ID:0910170483

The fischer group fulfills the requirements of the International Automotive Task Force (IATF) and works according to certified quality assurance systems in accordance with ISO/TS 16949:2009 and ISO 9001:2008. It is also recognized and approved by Germanischer Lloyd for its welding procedures.



“At fischer we know that only every individual takes on responsibility for his work will the result be consistently high fischer quality that we can all be proud of.”

presses in Every Market

the world's top suppliers of stainless elements. In eight countries, the fischer machines, tools and manufacturing

re, fischer stainless steel tubes and to them by the quickest route – in quality.

The fischer group produces stainless steel tubes and components all over the world, using processes, machines and tools developed in-house in Germany.

"For me, it has always been part of our concept that we only produce top-class quality. Of course, I am especially pleased that we have been able to make a name for ourselves around the world with this attitude."

Hans Fischer,
company founder and Managing Partner,



The fischer group and its international sites

fischer Germany:

- ▶ **fischer Maschinentechnik-GmbH**
Achern-Fautenbach, Germany,
founded 1969
- ▶ **fischer Edelstahlrohre GmbH**
Achern-Fautenbach, Germany,
founded 1979
- ▶ **fischer Rohrtechnik GmbH**
Achern-Fautenbach, Germany,
founded 1990
- ▶ **fischer Rohrtechnik GmbH,**
Sundern Branch
Sundern, Germany, founded 1995
- ▶ **fischer Hydroforming GmbH**
Menden, Deutschland, founded 2007
- ▶ **fischer Hydroforming Chemnitz GmbH & Co. KG**
Chemnitz, Germany, founded 2007
- ▶ **fischer eco solutions GmbH**

fischer Canada:

- ▶ **fischer Canada Stainless Steel Tubing Inc.**
Waterloo (Ontario), Canada,
founded 1987
- ▶ **fischer Tubetech Inc.**
Waterloo (Ontario), Canada,
founded 2002
- ▶ **fischer South Africa:**
fischer Stainless Steel Tubing SA (Pty) Ltd
Centurion, South Africa, founded 1990
- ▶ **fischer Tube Technik (Pty) Ltd.**
Centurion, South Africa,
founded 1999
- ▶ **fischer Tube E.C. (Pty) Ltd.**
Centurion, South Africa,
founded 2002
- ▶ **fischer South Africa Facilities**

fischer Mexico:

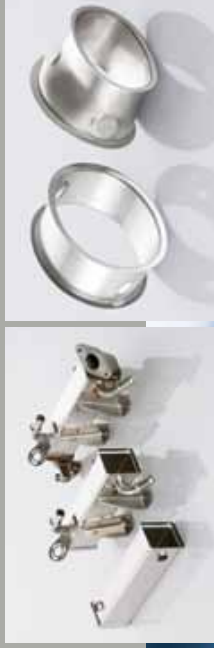
- ▶ **fischer Mexicana Tubing S.A. DE CV**
San Luis Potosi,
- ▶ **fischer Tubetech**
Puebla, Mexico,
- ▶ **fischer USA:**
fischer Stainless
Manchester (Te)
- ▶ **fischer Austria:**
founded 1998
- ▶ **fischer Edelstahl**
Griffen (Kärnten)
- ▶ **fischer China:**
founded 1999
- ▶ **fischer Tubetech**
Taicang City (Jia)
- ▶ **fischer Uruguay:**
founded 2006



COMBINATIONS

Top Performance in a Variety of Disciplines

Our top performance can not only be attributed to top-class product quality and unique service story, it also depends more on service capability and customer-orientation. We provide you with top performance in these disciplines.



Product development



Individual solutions



Customer satisfaction

Technology better utilization

With its new eco solutions promoting high energy efficiency for thermal processes, fischer represents a natural resource for environmental utilization.

Market-leading capabilities

For decades, fischer has been known for the quality of its manufacturing and processing of welded stainless steel tubes. In particular, we are actively advancing the precise manufacturing of thin-walled tubing.

Service and logistics

We are always thinking and acting in the best interests of our customers. Our services thus fit as harmoniously as possible into their chain of value creation. Top-class service, from the product development all the way to the final delivery at the customer site are part of our corporate culture.

Full-range supplier

The fischer group offers an entire range of services relating to stainless steel tubes and components: virtually all material

Hydroforming

Hydroforming has revolutionized the possibilities of tube design and added to the variety of shapes achievable. The fischer group adapted the new process early on. fischer Hydroforming thus has comprehensive capabilities, skills and experience at its disposal for ever more complex geometries and components.

Prototypes & individual solutions

Our high production competence makes us the first contact for the realization of your ideas. From the prototype to individual solutions to mass production. We have already developed feasible solutions for many shapes that appeared impossible. Put us to the test.

Stainless steel: 100% recyclable

Responsibility & customer satisfaction

It is the people that make the difference. The fischer group is a team of people who work cooperatively, but each with their own responsibility. This results in maximum customer satisfaction.





JOUS Precision

Stainless Steel Tubes for the World's Industries

Applications are being discovered for welded stainless steel tubes of the highest quality. The range of uses reaches from tubing for industrial purposes and seawater desalination plants to vacuum chamber components. This also reflects the wide range of different material advantages play an important role, but more often than not, it is the visual advantages that determine these as you wish.

All thickness, diameter and length are tailored and produced to your requirements – at seven sites around the world.

fischer material grades

fischer stainless steel tubes are produced in all commonly available stainless steel grades: austenitic, ferritic, Duplex or Super Duplex, depending on which qualities ultimately critical for your application – resistance to corrosion or heat, strength or appearance.

More and more frequently, speciality alloys are also considered, as a high-quality alternative to stainless steel.

Overview of materials

- ▶ Heat-resistant steels, austenitic
- ▶ Heat-resistant steels, ferritic
- ▶ Highly corrosion-resistant alloys
- ▶ Highly creep-resistant alloys
- ▶ Stainless steels, austenitic
- ▶ Stainless steels, austenitic – special-purpose steels
- ▶ Stainless steels, ferritic
- ▶ austenitic (Duplex, Super Duplex)
- ▶ Stainless steels, ferritic, chrome steels
- ▶ Titanium
- ▶ ...

Precise welds in one step

Technologically sophisticated welding processes offer highest weld quality with utmost reliability. Using laser welding and Tungsten Inert Gas Welding (TIG), fischer offers the best process with the highest precision.



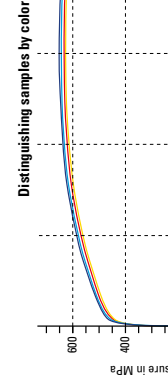
Laser welding



TIG welding

Tested quality down to the last detail

Stringent testing of the materials right up to the completed component is an essential part of everyday work at fischer. Highest possible quality is only a small part of our culture.



Plenty of shapes

All shapes and sizes possible with fischer

Dimensions

- ▶ External diameter
- ▶ Wall thickness
- ▶ Max. tube length
- ▶ Thin-walled tubes

Cut lengths:

Shapes

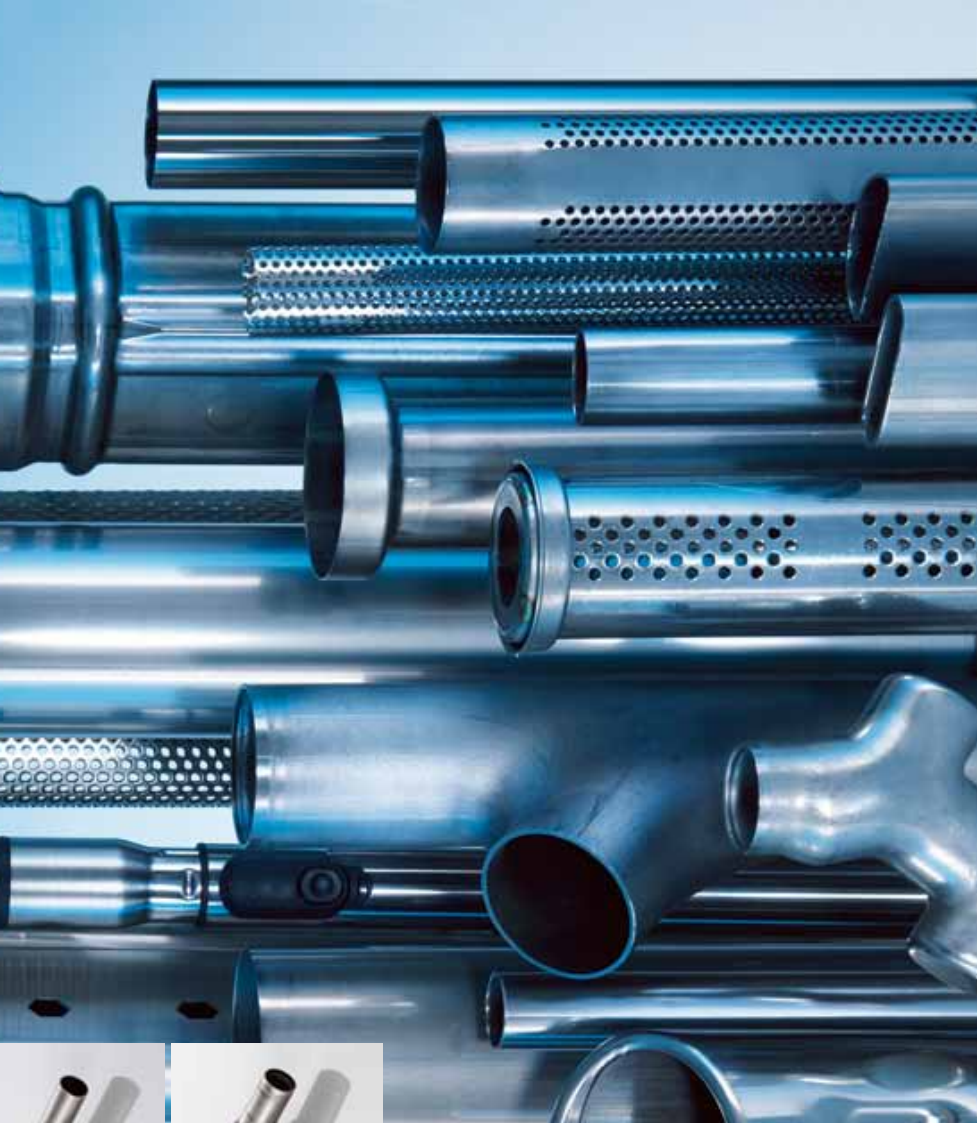
- ▶ Round tubes
- ▶ Square tubes
- ▶ Rectangular tubes

Specialty: thin-walled

One main focus of fischer is the production of thin-walled stainless steel tubes with a small wall thickness to weight ratio.



Thin-walled tubes are produced to your requirements.



Expanding Variety of Shapes

... and **fischer Hydroforming** Toward Ever More Complex Shapes

... pressures dictate that your requirements with regards to your stainless steel in constant. New technologies break barriers on a daily basis. What previously made possible. Beyond what is standard, the specialists at fischer use shape the stainless steel tubes into new, often astonishing forms. ... demanding.

... finding new possibilities at the limit of what is feasible, ... them to practical use. **fischer Rohrtechnik** and ... ing the pace — globally.

Within the fischer group of companies, the processing of our stainless steel tubes into complex components is carried out in five countries and in eight locations around the world: four in Germany and one each in Canada, South Africa, Mexico and China.

The continuous evolution of our processes is not only increasing the depth of our products but also their variety. This applies not only to individual sites but just as much to all international locations in the fischer group that deal with tube manipulation and hydroforming — thanks to the intensive, group-internal transfer of know-how.

A summary of the processing methods

The fischer group offers all standard tube processing technologies and with them can satisfy most customers inquiries.

In case we can not fulfill one of our customers requests we will develop further and relentlessly pursue new processes until we have a solution. That's a promise!

- ▶ Axial forming
- ▶ Bending
- ▶ Hydroforming
- ▶ Soldering and welding (TIG, MAG, resistance welding)
- ▶ Mechanical cold-forming
- ▶ Metal bellows technology
- ▶ Stamping, coping, punching, flaring/necking, cutting
- ▶ Cleaning, surface treatment
- ▶ Tube-end shaping
- ▶ Sawing, laser cutting

- ▶ Chipless cutting
- ▶ Joining/assembly
- ▶ Heat treatment
- ▶ ...

Development

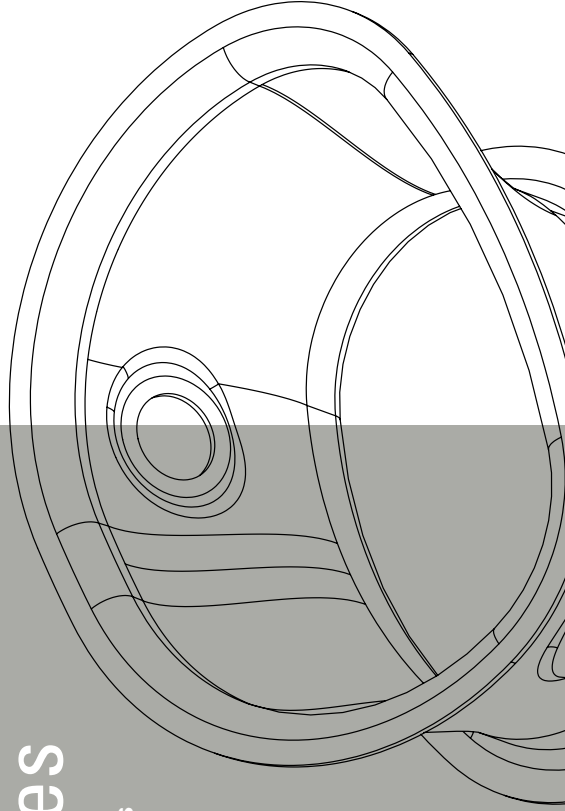
Next to standard the fischer group includes engineering

- ▶ Automation technology
- ▶ component design
- ▶ Structural elements
- ▶ tool construction
- ▶ Analysis of work
- ▶ metallography
- ▶ Material/corrosion
- ▶ Finite element analysis
- ▶ Product and process development
- ▶ R&D/engineering
- ▶ ...



"It is exciting to achieve more and more to continual research. That is a big motivation."

Elmar Walter,
Process Optimization
fischer Rohrtechnik



Engineering Within the fischer group

When everything comes from within a concerted effort and is fully detailed in the smallest detail. That is why it has always gone without saying that all procedures and equipment are developed, improved and implemented. So you can be sure that the same processes and quality standards are implemented wherever fischer is present.



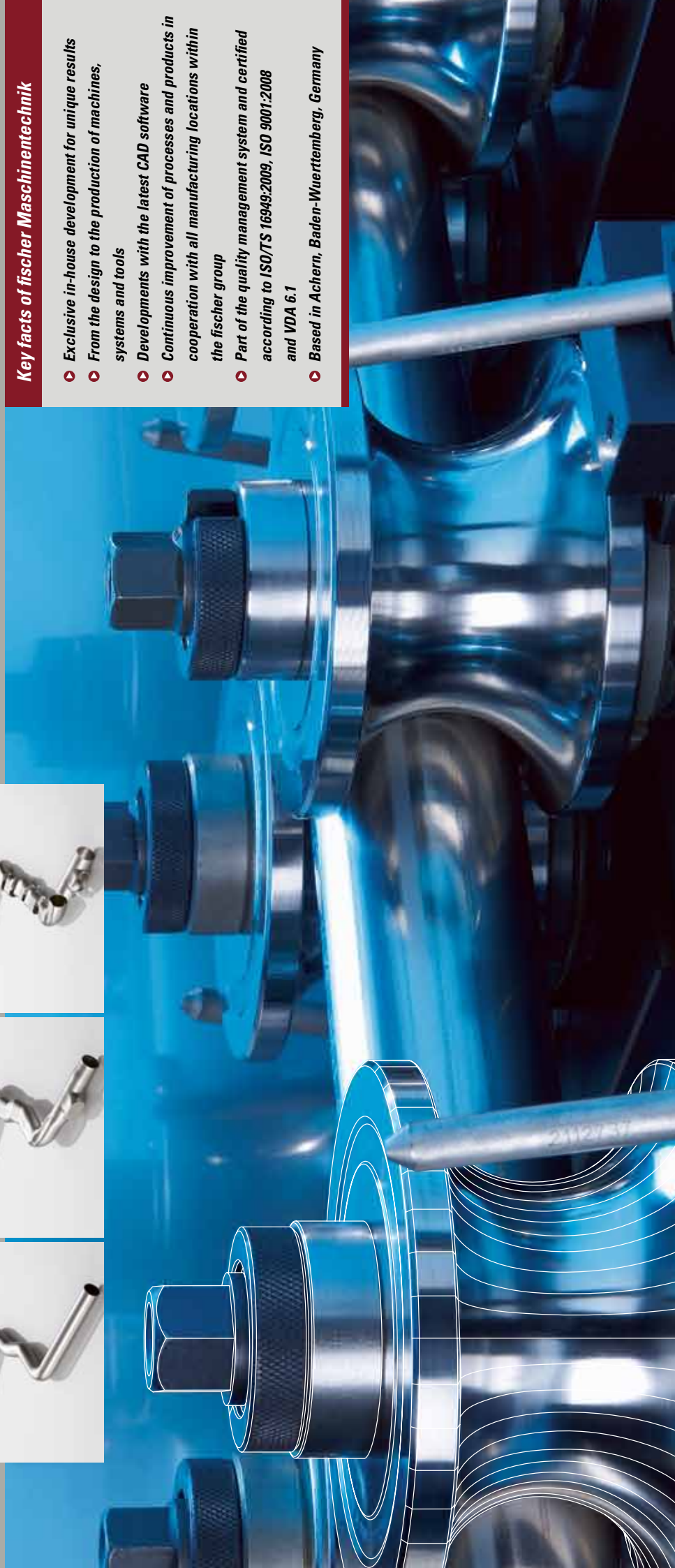
"Long-lasting success only comes from constant improvement. fischer Maschinentechnik is a strong driver behind the push to perfect the unique fischer production processes on a global basis."

Hans-Peter Fischer, Managing Director, fischer group



Key facts of fischer Maschinentechnik

- ▶ **Exclusive in-house development for unique results**
- ▶ **From the design to the production of machines, systems and tools**
- ▶ **Developments with the latest CAD software**
- ▶ **Continuous improvement of processes and products in cooperation with all manufacturing locations within the fischer group**
- ▶ **Part of the quality management system and certified according to ISO/TS 16949:2009, ISO 9001:2008 and VDA 6.1**
- ▶ **Based in Achern, Baden-Wuerttemberg, Germany**





er for More Added Value

lly Your First Contact for Stainless Steel Tubes and Complex Components

In international competition, not only the final piece price that counts. Above all, consistent quality, high flexibility and versatility and exceptional problem-solving ability play important roles in a fast-moving global market. They are the long-term lever for more efficiency and value creation in industrial processes – regardless of the industry.

Globally, the Fischer group must be your first contact for the development and production of welded tubes and complex components made of stainless steel. All Fischer companies possess these effective and ultimately decisive qualities.

**Together we can achieve a lot.
Which challenge do you want to tackle next?**



What you get as a customer

Benefit from

- ▶ **global reach**
Wherever
- ▶ **a wealth**
From the of tubing
- ▶ **first class**
That Fischer
- ▶ **high flexibility**
Everything individual
- ▶ **speed:**
Extremely and when
- ▶ **innovation**
If something we will de
- ▶ **ultimate customer**
We deliver instructional

Your Director

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"We always offer solutions for your And you can rely commit to what v And that's a prom



The companies of the fischer group develop and manufacture tubes and complex components made of stainless steel. The companies headquarters are situated in Achern, Germany and it maintains a global reach with production facilities located in Canada, South Africa, Mexico, the USA, Austria, China and Uruguay.



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