

# Plastic welding technology in perfection



Competence connects.

### **From a pioneer in plastic welding technology to a technology leader**

Our mission is to join plastics. Since 1957. Our goal from the very start was to optimise and promote the processing of thermoplastic materials through innovative technology. Which is why we were the first company in the world to manufacture plastic bending and butt welding machines. We have resolutely followed this path and have largely defined the technology of bending and welding plastics. Today, not only are we the market leader in the field of butt welding and bending thermoplastic sheets and boards, but the name Wegener stands for „Plastic welding technology in perfection“ around the world.

New generation of Wegener bending machine series BM, launch of the new Mini2 extruder and implementation of a performance-enhancing extruder control in all EXWELD equipment.

**2016**

Move to a new high-tech production site.  
Introduction of the STx25 butt welding machine offering unrivalled value for money and development of the compact SC series of welding machines.

**up to 2013**

The patented Wegener parallel movement mechanism revolutionises drive technology for butt welding machines.

**2001**

Commissioning of the world's first fully automated, robot-controlled container production plant.  
High performance with a low weight: the new series of extruders sets standards.

**up to 1996**

Development of our own computer to control the butt welding and bending machines.

**1981**

Market launch of the world's first bending and butt welding machine as well as quick-welding nozzles.

**up to 1968**

Foundation of the company.  
Start of production of hot gas welders.

**1957**



# Uncompromising quality – our principle for whatever we do

## Your challenge is our motivation

The manufacture of products and semi-finished products from thermoplastic plastics places the highest demands on humans and machine technology. Apart from functional and often safety-relevant quality criteria such as strength, impermeability and longevity of the products, efficiency and profitability also play an important role. We have set ourselves the task of not only mastering the technologies for plastic welding and bending but of continuously perfecting these for our customers. We develop, build and sell plastic welding equipment and machines with the highest process technology competence and in an unmatched quality – cutting-edge technical products that guarantee our customers decisive competitive advantages.

## Expertise developed over decades

Know-how and experience go hand in hand at Wegener. In view of our decades of experience with various applications, we can rightly claim that no matter what materials or components have to be processed, our customers can rely on us to find the best solution for them – from the Wegener standard portfolio or as a bespoke project in custom machine construction.

This is why famous companies around the world have been trusting in the Wegener brand for decades.

## That critical one step ahead

We are constantly adapting our products to the changing demands of the market in close cooperation with customers and users as well as manufacturers of raw materials and semi-finished products. We actively help define future quality standards. The best proof for our successful research and development work are our patents, for example the parallel movement mechanism, the hydro-pneumatic bending flange drive unit or the metal foam heated tools. Our customers can thus profit from innovative technologies today that will become the standards of tomorrow. Their benefit: optimum manufacturing efficiency and products of the highest quality!



” This ongoing development work guarantees our knowledge lead and thus the investments of our customers. “

Dipl.-Ing., MBA Bernd Roßkampff  
CEO Wegener

Our success is inseparably linked to the people who work at Wegener. Every one of them feels personally committed to the company's high quality standards.

### Employees

We are innovative by conviction, combine our technological know-how and thus create something new. Many of our ideas result in patents and industrial designs.

### Innovations

We are a member of expert teams and committees involved in the standardisation of plastic welding technology and cooperate closely with leading universities and research institutions.

### Dedication

A close dialogue with customers, business partners and colleagues is part of our corporate philosophy. It forms the foundation for productive action that leads to success and satisfaction.

### Communication



# Our portfolio: Diversity comes together in a perfect whole



## The Wegener machines

- Butt welding machines
- Welding by bending using heated tool machines



## The Wegener equipment

- Extrusion welders
- Hot gas welders
- Film welders
- Testers to check the quality



## Complete range

We are the only manufacturer in the world to offer our customers a comprehensive range of outstanding technological machines and equipment to process thermoplastic plastics. These cover compact, extremely powerful hand-operated hot gas and extrusion welders right through to fully automated butt welding machines and automatic sheet benders. Every product series is an expression of our proven technological know-how and convinces in the production process through precision, reliability, stability and not least maximum user-friendliness.

## Practically developed

User orientation is one of our most important guidelines. This is why we strive for not only technological perfection but also comfortable operation in all of our equipment and machines. When designing our hand welders, for example, we placed great store in a low weight, ergonomic design and low running noise for the fan. The machine control systems are convincing in

day-to-day industrial use thanks to their easily understandable operation with an intuitive, state-of-the-art menu layout.

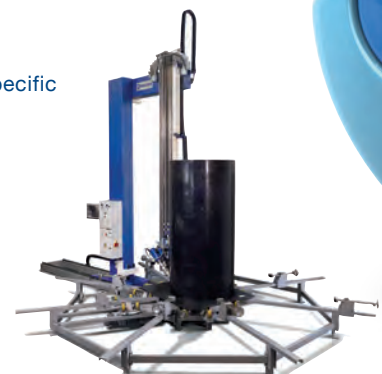
## Reproducible quality

Whether a compact, stand-alone machine to manufacture tanks and electroplating systems, fully automated production plants for series moulded parts or customised special designs – all welding and bending machines from Wegener satisfy the highest demands on precision, process reliability and reproducibility. Their functionality and efficiency are based on a unique machine concept consisting of a sturdy steel frame construction, symmetrically arranged working tables and the parallel movement mechanism developed by Wegener. This guarantees a balanced load characteristic, constant weld seam strength and low edge distortion during welding by bending. This machine concept and modern control engineering with integrated process database are the basis for quality-assured welding processes according to the latest DVS parameters on the butt welding machines. Quality in series!



## The Wegener specialists

- Customised and product-specific special machines
- Crease-hinge machines, surface welding systems, pallet welding machines, edge sealing systems, foam welders and many more customised solutions



### Tested quality made by Wegener

We aspire to first-class quality. In order to fully achieve this expected performance, we offer engineering and production from one source and trust in a high level of vertical integration when it comes to mechanical and electrical engineering. Lathing, milling, wiring, programming – every hand welder and every welding machine is built by our experienced specialists, who have ultra-modern machinery at their disposal for this work. Thorough checks are carried out at every stage in the process to ensure that the high quality requirements that make out a Wegener product are satisfied.

Thanks to the in-house production, individual requests for modifications can be realised efficiently and mechanical spare parts

manufactured at short notice. This is also your guarantee for the long-term availability of our products. The in-house production possibilities are supplemented by a large technical centre and test laboratory with special test welding facilities. Tests can be carried out at any time with various heating and drive concepts to assess the weldability of materials or products and to define relevant process parameters. This greatly reduces development and production times and minimizes the process risk, particularly for custom machine constructions.



### The whole is more

than the sum total of its parts: by combining plastic technology know-how on the one hand and a high level of vertical integration on the other, we develop the perfect product solution for even the most unusual processing requirements.

# A strong connection



## The best solution for every need

Plastic welding machines and equipment from Wegener are indispensable wherever rational production and the highest product quality are what matter. In container, tank, apparatus and pipeline construction as well as in the automotive industry, in transport and logistics, in medical engineering and countless other fields.

As a competent solution and development partner for our customers, we familiarize ourselves with the relevant industry-specific features and marginal conditions and consider the process requirements from all sides, true to our guiding principle of understanding the needs of customers and implementing these correctly.

” A profound understanding of each customer’s requirements is one of Wegener’s biggest strengths. “

Dipl.-Ing. Michael Dietrich,  
CEO Wegener



Tank construction



Automotive



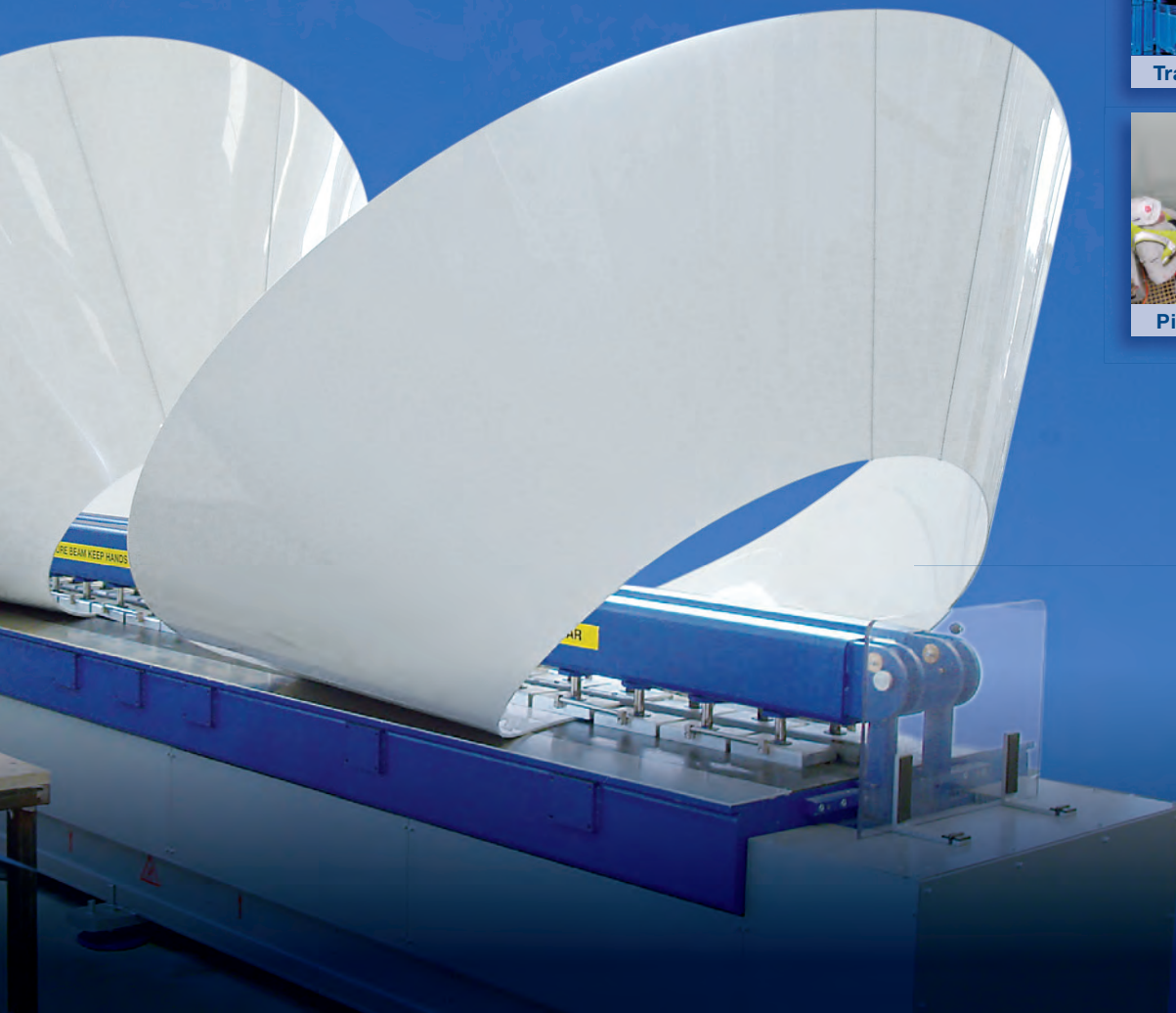
Welding of foamed material



Transport and Logistic



Pipeline construction



# for your success

## Specialist for bespoke solutions

The tasks of our customers are very specific and call for individual product solutions. Wegener is predestined for their conception and realisation: based on our excellent production know-how, we either develop customised welding machines from scratch, or we come up with a solution by combining tried and tested technologies. One example of this are the automated and robot-controlled hot gas and extrusion welding systems.

## Sound application support

We advise you on all questions related to thermoplastic processing with a great sense of responsibility. Experienced engineers are by your side in every phase of the project: from the first application support, through engineering right down to the professional commissioning of complex machines on site. We place great store in close, personal dialogue so that you get the most from our consulting expertise; this begins with the initial analysis of your needs, on the basis

of which we then develop the solution to your problem. This can be a product from our standard range, a series machine that is adapted to your specific product, or a solution that has been customised down to the last detail. The feasibility of suggested concepts can be verified quickly and reliably in our technical centre. This means we can back up processing steps at an early stage with reference samples and possible process risks can be eliminated from the outset.

## Reliable service partner

And we naturally remain your contact person and reliable advisor even after delivery or commissioning on site. The worldwide Wegener after-sales service offers fast and comprehensive help, where and when you need it. Here again: our customers' satisfaction takes top priority.



## Step by step to the perfect project:

-  Analysis of requirements
- Concept
- Feasibility study
- Engineering
- Reference sample
- Production
- Delivery / commissioning
- Acceptance by customer
-  Service

Our focus is always on the user: we also offer the transfer of know-how in the form of welding training and seminars.



## Together we can turn your ideas into reality –worldwide

Plastic welding machines and equipment from Wegener guarantee the best quality welded joints around the world.

With our headquarters in Germany and international sales partners in all important industrial regions, we are never far away. We will be happy to advise you on your processing ideas and help you with engineering and our in-house, high-end products made in Germany.



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Butt welding machines  
Welding by bending machines  
Foam welding machines

● **The Wegener equipment**

Extrusion welders  
Hot gas welders  
Wedge welders  
Testers to check the quality

● **The Wegener specialists**

Customised and product-specific special machines  
Crease-hinge machines, surface welding systems,  
Pallet welding machines, edge sealing systems,  
foam welding machines and many more  
customised solutions

● **The Wegener transfer of know-how**

Application technology advice  
Feasibility study  
Training courses and seminars

● **The Wegener service**

Worldwide support  
Commissioning on site  
Spare parts service

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