



THIELE
FORGING
TECHNOLOGY



THIELE GMBH & CO. KG

A partner you can rely on for chain systems and forging services

THIELE was established in Iserlohn-Kalthof more than 85 years ago and the company is now one of the world's foremost manufacturers of chain systems. The forging of quality components has become one of our core competence areas. Customers benefit from our established expertise in product design and manufacturing, with everything we supply being produced at our Iserlohn plant in Germany.

As well as supplying the traditional markets for conveying and lifting equipment we also operate in new future-oriented sectors like mobility and renewable energies.

Our company values are born out of loyalty and respect. We believe in treating our customers as partners with a shared interest in developing successful, long-term business relationships based on product quality and punctual delivery.

THIELE is well known for its responsible and forward thinking management approach. The integration of THIELE GmbH & Co KG into the THIELE Foundation has placed the company in a secure position for the future.

Our promise to you

1. Our highly skilled workforce and modern manufacturing facilities guarantee products of the highest quality.
2. We will work with you to supply customer-specific products tailored to meet your requirements
3. We are constantly improving our processes for enhanced resource efficiency and sustainability.





WHAT YOU CAN EXPECT FROM US

High level of value-added based around state-of-the-art forging lines

Our product range:

Forging machines (16 - 160 kJ) | forging press (bis 1600 t)

component weight from 100 g to 100 kg | length up to 1.350 mm (depending on the component)

Our forged products are based around a large selection of materials:

- chain steels (DIN 17115)
- non-alloy heat-treatable steels (DIN EN ISO 683-1)
- alloy heat-treatable steels (DIN EN ISO 683-2)
- case-hardened steels (DIN EN ISO 683-3)
- non-alloy structural steels (DIN EN ISO 10025-2)

Special steels, e.g. high-alloy, corrosion-resistant, heat-resistant and anti-magnetic steels, are available on request.

Heat treatment:

A process-based heat treatment stage delivers the final product characteristics. Here a state-of-the-art, fully-automated heat treatment plant ensures that the end-products meet the highest mechanical specifications.



Square billets (edge length 50 to 120 mm) or round stock (18.5 to 200 mm in diameter) can be used as feedstock material.





YOUR ONE-STOP PROVIDER

Our range of services:

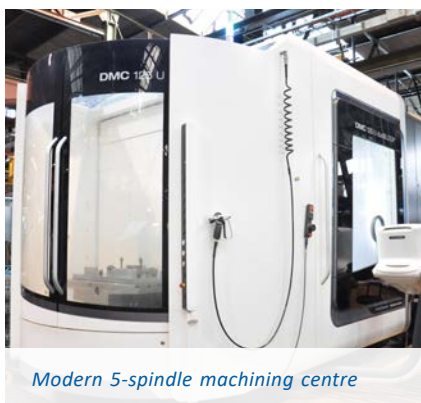
- metal forging
- a range of welding processes
- laser, plasma and gas cutting
- multi-spindle milling machines
- CNC machining
- assembly and end production
- heat treatment
- painting and surface finishing



Product development

Our in-house manufacturing base can cover the entire process from raw material through to final product.

High-level expertise makes for short lead times, especially when new products are being developed.



Modern 5-spindle machining centre



Manufacture of dies, trim dies and calibration tools

FEM simulation

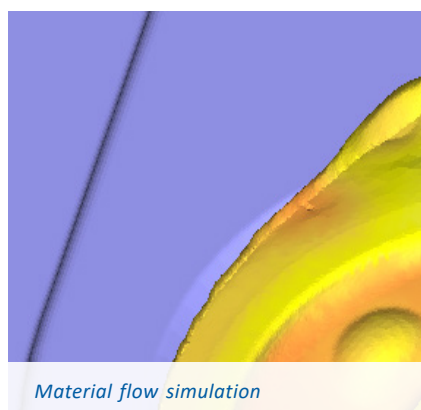
We use precise calculations backed up by the experience of our engineering team to carry out stress analyses before production begins. This makes for a product development process that is both highly efficient and optimised to the maximum.



FEM simulation of a ringbolt

Material flow simulation

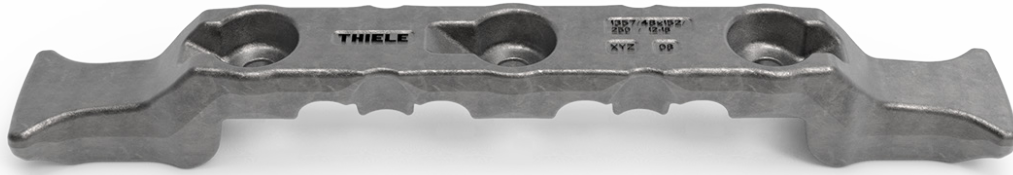
3D simulations optimise the forging process, enable precise volume calculations, increase efficiency and have a positive impact on product quality.



Material flow simulation



CNC machining



Component weight: 60 kg
Dimensions: 1075 x 160 mm
Forging line: 160 kJ

WHEN COMPROMISE IS NOT AN OPTION

Examples from our product range:



Component weight: 23 kg
Dimensions: 420 x 450 mm
Forging line: 100 kJ



Component weight: 1,3 kg
Dimensions: 185 x 60 mm
Forging line: 31,5 kJ



Component weight: 5,5 kg
Dimensions: 252 x 160 mm
Forging line: 40 kJ



Component weight: 1 kg
Dimensions: 150 x 50 mm
Forging line: 31,5 kJ



Component weight: 18 kg
Dimensions: 400 x 115 mm
Forging line: 100 kJ



Component weight: 10 kg
Dimensions: 320 x 120 mm
Forging line: 40 kJ



Component weight: 3,3 kg
Dimensions: 160 x 140 mm
Forging line: 31,5 kJ

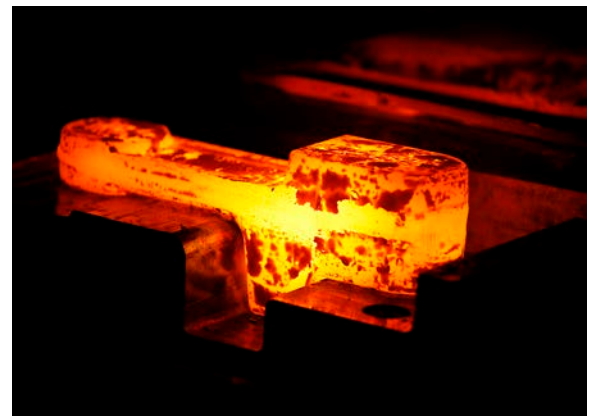


We know and understand your product

The THIELE product development team will work alongside you to complete one-off production runs and manage joint projects. Our engineers can provide advice on all aspects of the project and will produce customised specifications so that the end-product meets your exact requirements.

What are the advantages?

- we are a system supplier
- we offer a mobile service providing technical advice on-site
- more than 85 years experience in metal forging
- user-specific product development
- 3D simulations with material flow analysis
- FEM-optimised forgings
- state-of-the-art heat treatment and machining facilities



If you have any enquiries or would like an informal quotation -

our qualified technical personnel will be pleased to help. Contact them on

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