

BÖHLER UDDEHOLM
precision *strip*

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STRIP STEEL TECHNOLOGY SINCE 1872

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BÖHLER

THE COMPANY

World leader

BÖHLER-UDDEHOLM Precision Strip is a 100% subsidiary of the Böhler-Uddeholm Group, which has 9,300 employees worldwide and an annual turnover of more than Euro 1.5 billion.
The group is listed on the stock exchange and is internationally known to be one of the most successful producers of special steels.

The Company – a part of the Precision Strip Division – with its head office in Böhlerwerk, Lower Austria, is a world leader in the production of bimetal strips for metal saws, rule die steel for the leather and textile industry as well as high-precision steel rules for the die cutting of packaging materials.

Furthermore cold rolled special strip steel with the highest requirements for material, surface appearance and tolerances is produced.

The group guidelines are behind the philosophy and strategy of BÖHLER-UDDEHOLM Precision Strip. Important statements of our company philosophy include:

- We see ourselves globally as the competent partner in our core business and always strive towards the position of "Best in class".
- Our customer's needs form the guidelines for our entrepreneurial negotiations.
- We promote Quality and Service. The qualification, motivation and flexibility of our staff form the basis thereof.
- Our obligation is to a clean environment.



Our strengths

Our company has specialised in the processing of medium and high-alloy steels as well as in the special finishing of the following products:

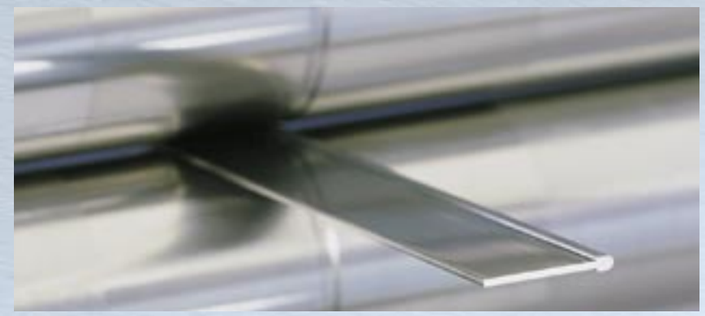
- Cold rolled special strip steel
- Bimetal strip
- Cutting, creasing and rotary rules
- Rule die steel

Close to the final product

Furthermore we also offer strip steel shapes that are close to the final product, thus allowing our clients to economise on further processing.

Customer benefits

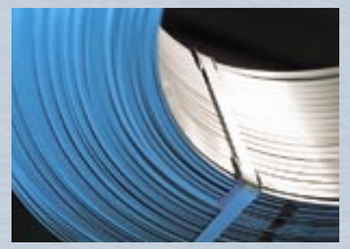
We see ourselves as problem solvers as our suggestions are aimed towards as much customer benefits as possible.



OUR CORE COMPETENCE

Quality as a Requirement

The cold rolling of high grade steel with special steel quality requirements is our core competence. We deliver products with high homogeneity and dimensional stability, excellent surface quality and a structure that is optimally suited to the application. At BÖHLER-UDDEHOLM Precision Strip these steel and product qualities are attained by using well-coordinated treatment procedures with the use of the most up-to-date processes and production equipment. Our product range covers a large number of dimensions with a strip thickness of 10 µm to 6 mm and a width from 3 – 450 mm in annealed / re-rolled, as well as quenched & tempered or hardened conditions.



Treatment conditions

Annealed / re-rolled

In bell type furnaces or continuous annealing lines we obtain a regular subcritically annealed structure, such that during processing the best deformation and punching behaviour is obtained. Through cold or temper rolling defined strength characteristics are achieved – if so desired also in stress-free annealed condition.

Hardened or quenched & tempered

With various hardening processes it is possible to obtain quenched and tempered or structural conditions suited to applications, thus saving the customers from having to carry out further hardening.

For all our products we can guarantee especially important quality characteristics such as precision tolerances, surface flatness and straightness, as well as excellent mechanical properties.

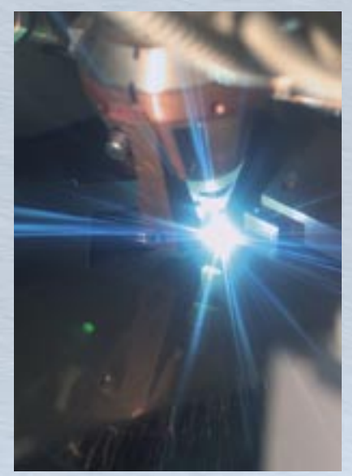
THE PROBLEM SOLVERS

Combining materials

The bimetal strip combines different materials with partially opposed mechanical or physical properties in one product.

Two materials are combined together inseparably, lengthwise, in a beam welding process (laser or electronic welding). This leads to optimal material combination with regard to wear and fatigue resistance. The end product meets the highest requirements regarding precision, material purity and the quality of the weld seam.

The advantages of the laser weld seam are based on the small amount of the weld seam volume, whereby no seam excess appears and therefore the customers do not have to carry out any further finishing processes. Furthermore there is almost no influence on the deformation behaviour caused by the welding seam.



During the welding process only a slight heat load is exerted on the base materials.

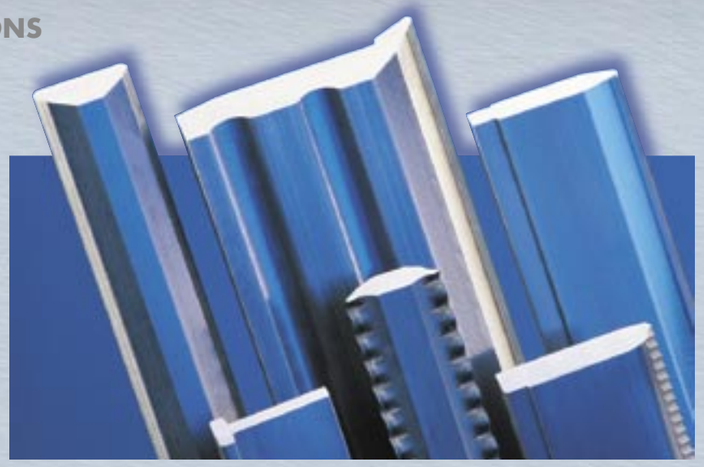
Variety of solutions

The raw materials for the bimetal strip are produced at Böhler This is the prerequisite for a diversity of individual solutions to problems.

ADHERING TO DIMENSIONS

To show profile

Profiled strip steel offers extremely advantageous properties, in that constant material quality is ensured as well as high measuring precision of the entire production quantity. It is therefore a suitable raw material product for profiling in high scale industrial manufacturing.
Furthermore cold-rolled profiled strip steel has an excellent surface quality with roughness values of less than N6.



Individual finishing of the edges saves the customers from having to carry out further finishing works.

For the final application the profiled strip steel can be converted to the desired properties through specific heat treatment.
Thanks to newly acquired knowledge in rolling technology and the constant further development by Böhler more and more possibilities are arising to replace machined parts with cold rolled profiled strip steel.

OUR MOST VERSATILE STEEL

Functional shapes

The design of the edges is carried out on special machines, depending on the type of problem, with temper rolled, deburred or facetted finishing.
Through mechanical edge working the susceptibility to cracking is considerably minimised.
Our production programme includes a wide range of edge shapes. The correct choice always depends on the current area of utilisation of the strip steel.

In addition to the standard edges naturally various special shapes can be supplied, such as for example finished cutting edges or facettes with serrated teeth.

Standard edges

- natural edges, re-rolled
- cut edges
- cut edges, deburred
- cut edges, broken corners

Mechanically worked edges

- right-angled, sharp-edged
- right-angled, broken edges
- rounded edges, smooth

Special finishing

- ground edges (bevel)
- sharp tooth, rounded bottom



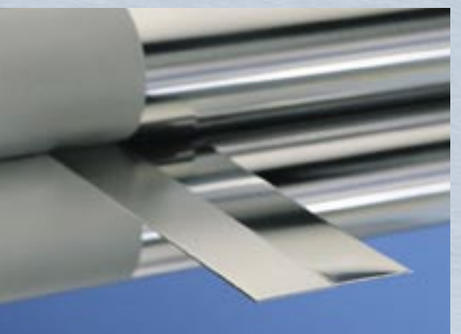


COMBINATION OF TECHNOLOGIES

OUR STRENGTHS

Innovation opens doors

Through the combination of rolling, heat treatment, welding, shaping and edge working new-types of products are created at BÖHLER-UDDEHOLM Precision Strip. These innovative developments open additional areas of utilisation and further application possibilities for our customers.



Rolling

Range of dimensions:
Strip thickness: 0,01 – 6,0 mm
Strip width: 3 – 450 mm
Large number of standard materials, e.g. carbon steel, tool steel, spring steel, heat resistant steel, corrosion resistant steel, …

Heat treatment

For each application the optimal hardening and annealing plant is available with regard to the material, hardness and strip shape.
Both full and partial hardening is possible.

Welding

Through high energy welding it is possible to weld lengthwise different metallic materials and even strips with different thicknesses, mechanical and physical properties.

Profiling

Through profile rolling a high precision finished cross-section is obtained thus minimising further finishing involving metal removal.

Edge finishing

We offer our customers the most accurate width tolerances as well as optimal shaping of edges for each application.

Surface

For each application the optimum surface is available from rough to smooth, dull to bright, including brushed, ground and if necessary with the desired surface colouring.

An example

Primary product for chip wood finishing and the paper industry. Shaped, welded and heat treated strip steel, right-angled finishing.

Advantages

- constant high quality through strip production
- economical due to a profile that is close to the final product
- shatter-proof and hard-wearing on the edges



OUR TARGET

Quality competence

Owing to more than 130 years experience in the converting of steel into components for high-grade final products we understand the value of a good partnership.
For us the first step towards an optimum solution is the grasping of the customer's special needs.

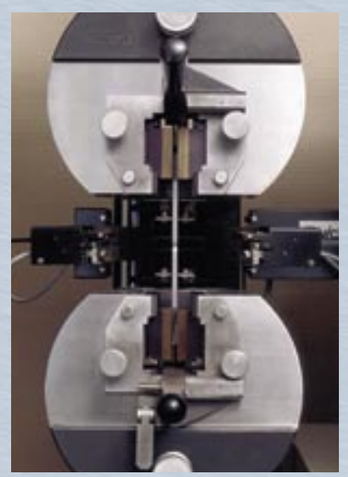


Quality is an essential part of our company culture and this is reflected in all areas of our business activities.

Close relationships with the customer, reliability and quick decision-making are essential elements of our organisation.

Many of our innovations and the corresponding solutions to any special problem are further developed in a constant manner to the benefit of our customers.

BÖHLER-UDDEHOLM Precision Strip has the most up-to-date laboratory facilities and testing technologies and is of course certified to EN ISO 9001.



YOUR REQUIREMENTS

Our Know-How

The production technologies presented before and the know-how of our qualified employees should open up new application possibilities and help you to optimize your production respectively.

We will support you in the realisation of your ideas and will provide our expertise to you in the solving of your problems.

LET'S WORK TOGETHER

