



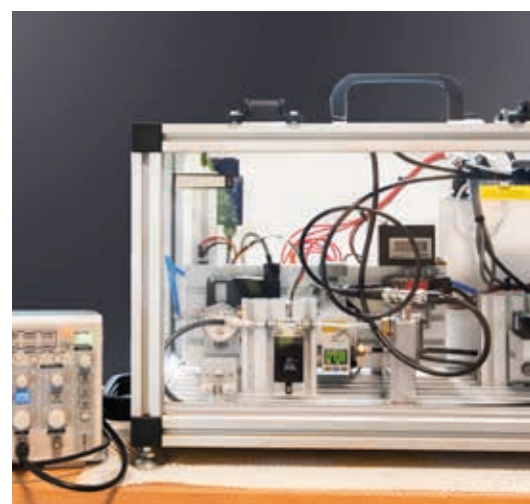
INNOVATION AND R&D OUR FUTURE

We are your partner for special requirements,
at your side developing together.

At voestalpine Precision Strip AB we always accept a challenge. Our Innovation initiatives are moving our business into new product areas and markets. Redefining the limits of what is possible.

The R&D department in Munkfors ensures continuous enhancements in the product and process areas. We are your preferred partner for your special requirements, at your side supporting your product development. Our strength lies in the combination of the latest technologies and our experienced workforce.

As part of the voestalpine Group, we control all essential quality parameters, starting from the specific selection of steel grades which perfectly suit your applications. Whenever new demands for new applications require it, we can develop project-specific alloys together with our customers.



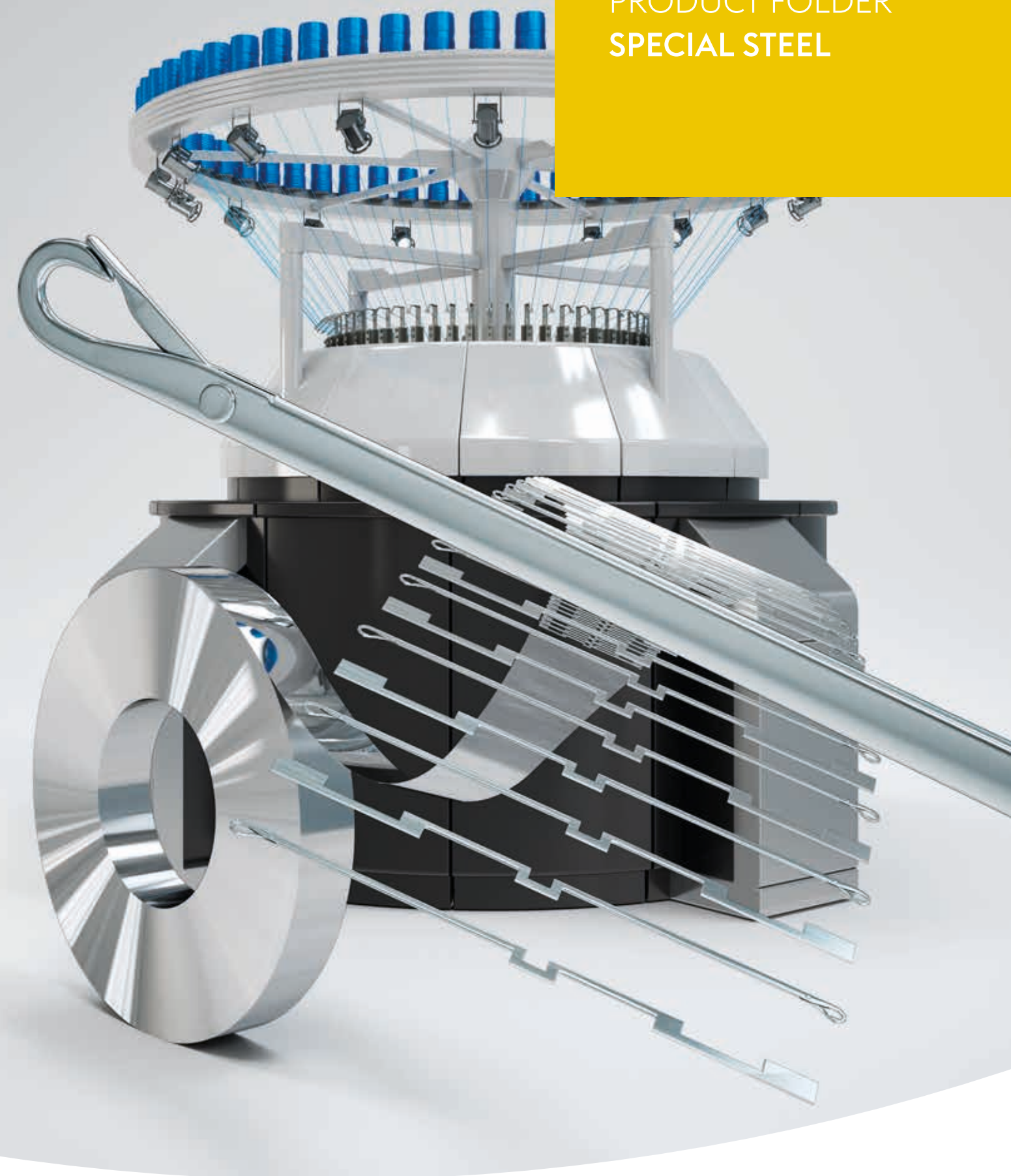
With the latest technologies and equipment we can offer product specific:

- » Impact fatigue testing
- » Fracture studies
- » Wear profiles and angles
- » Full material analysis
- » XRD and SEM studies

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ONE STEP AHEAD.

uddeholmstrip



PRODUCT FOLDER
SPECIAL STEEL

PREPERENS / Perst. City/Type: Karlstad / Photo: Fotogrammetri Illustrations, Graphics

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INNOVATION AND DESIGN EXCEPTIONAL QUALITY

voestalpine Precision Strip AB offers customised strip steel solutions for demanding applications. Our expertise in cold rolling, with a focus on thin materials, makes us a highly valued partner for manufacturers of special products.

With **R&D and production** under the same roof we control the entire process, from development of steel properties, to key production parameters.

Advanced cold rolling technology enables us to also offer extremely thin materials, such as feeler gauge. We are the preferred partner for manufacturers of industrial knives, surgical saws and needles for the textile industry.

State of the art annealing and hardening facilities allows us to optimise the hardness, toughness and durability of the material to meet the requirements of each customer.

We always encourage our customers to involve us early in their development process. Our partnership opportunities are endless.

BENEFITS

Wide range of steel grades

- » The wide portfolio of precision strip steel grades offered by **uddeholmstrip®** makes us the first choice for special applications.

Innovation

- » We are continuously searching for new and demanding projects that offer our customers added value.

Experience

- » Competent and experienced personnel and a history of 350 years of precision cold rolling ensure the quality of what we deliver, every time.



TEXTILE STEEL



The **textile industry** demands needles with high fatigue strength and high wear resistance. UHB 20MC1 latch needle steel has been developed in close cooperation with leading needle manufacturers.

It is **characterized by** a high degree of purity, a uniform fine grained structure and ensuring reliability in needle manufacture and good durability after hardening. The needle strip steel has close thickness tolerances to ensure the cross-sectional shape and the needle function.

Additional steel grades for other products in the textile industry such as sinkers, springs, wear parts etc. are available on request.

SIZE RANGE

Thickness: 0.10 mm – 1.60 mm
Width: 6 mm – 320 mm

DESCRIPTION

UHB 20MC1 is a 1% carbon low chromium steel specifically developed for latch needles.

ADVANTAGES

- » Best available wear resistance
- » Close thickness tolerances
- » High degree of steel purity
- » Excellent durability after hardening
- » Consistent and uniform quality

FOOD PROCESSING KNIFE STEEL

Cleanliness and corrosion resistance are two key factors in the food processing industry.

UHB SS731 has 13.2% chromium and is enriched with 0.4% Nickel that provides excellent corrosion resistance together with a sharp edge for food processing.

In a hardened and tempered condition it gives good wear resistance to minimise the production down time.

UHB SS716 is similar to our UHB SS731 grade but enriched with 1% Molybdenum.

UHB SS716 is the choice for applications in the thinner dimension range.

SIZE RANGE

Thickness: 0.076 mm – 1.60 mm
Width: 6 mm – 320 mm

DESCRIPTION

UHB SS731 is a stainless grade with 13.2 % chromium that are our No.1 choice for most food processing applications.

ADVANTAGES

- » Corrosion resistance
- » High degree of steel purity
- » Close thickness tolerances
- » Excellent toughness
- » Consistent and uniform quality

MEDICAL STEEL



The **medical industry** needs cold rolled steel that meets the high demands in this sector. We have a range of stainless steel grades suitable for the specific requirements needed.

UHB SS716 is a multipurpose stainless grade with outstanding mechanical properties. It is characterised by its superior fatigue properties, toughness and impact strength. The UHB SS716 can work in high temperatures and corrosive environments.

UHB AEB-L is the right choice for edge sharpness, wear resistance and with good corrosion resistance. The combination of 0.67% Carbon together with 13% Chromium gives a stainless grade that is optimal for all cutting applications.

UHB SS731 is an alternative to UHB SS716 and is often used in thicker applications.

SIZE RANGE

Thickness: 0.076 mm – 1.60 mm
Width: 6 mm – 320 mm

DESCRIPTION

UHB SS716 is a multipurpose stainless grade with 13.5% chromium and our No.1 choice for most medical applications.

ADVANTAGES

- » Superior fatigue properties
- » Close thickness tolerances
- » High degree of steel purity
- » Excellent toughness
- » Consistent and uniform quality

INDUSTRIAL KNIFE STEEL

UHB AEB-L has been the No.1 steel grade for industrial knives since decades. This stainless grade has been developed for one purpose, a perfect edge for cutting. UHB AEB-L is the right choice for edge sharpness, wear resistance and good corrosion resistance.

We also offer a wide selection of carbon steels for knife applications. The benefit of the carbon grades is that you get a high hardness in the material, and an edge that will last.



SIZE RANGE

Thickness: 0.076 mm – 3.50 mm
Width: 6 mm – 340 mm

DESCRIPTION

UHB AEB-L is a stainless grade with 13% chromium that is our No.1 choice for knife applications.

ADVANTAGES

- » Superior cutting properties
- » Close thickness tolerances
- » Best available wear resistance
- » Good corrosion resistance
- » Consistent and uniform quality