

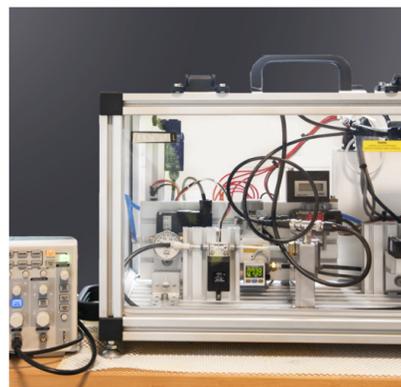
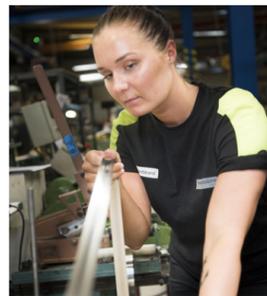
INNOVATION AND R&D OUR FUTURE

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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voestalpine
ONE STEP AHEAD.

uddeholmstrip®



PRODUCT FOLDER
RAZOR & SCALPEL
STEEL

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AT THE CUTTING EDGE OF TECHNOLOGY

voestalpine Precision Strip AB supply cold rolled and unhardened, high carbon and martensitic stainless strip steel for the manufacture of razor blades and medical scalpel products.

For over one hundred years uddeholmstrip® has developed and produced cold rolled strip for razor and scalpel manufacturers. Our martensitic stainless steel grade UHB AEB-L was patented in 1928, filling the gap for a more corrosion resistant material requested by the market.

Our customers are the razor manufacturers who sell their own brand products to consumers or to the private brand supermarkets, pharmacists or more recently, the internet shops.

Razor blade steel has to be flat, with a fine surface to ensure that subsequent hardening and edge grinding gives a smooth comfortable shave. The edges are ground to very specific geometries depending on the type of blade required, and the final product has good strength and high sharpness. The steel also has to have a reasonable degree of corrosion resistance.

Over the years there has been a move from the traditional "Double Edge" blade to thinner and narrower blades packed into multi-blade shaving heads.

The Medical scalpel sector includes blades used in hospital operations but also the growing markets of veterinary and cosmetic surgery.

The metallurgical requirements for scalpel blades are similar to those of razor although the material tends to be thicker. The exception is the microtome blades for the preparation of laboratory tissue samples that can be as thin as razor blades, or sometimes thinner.

BENEFITS

voestalpine Precision Strip AB has long experience and were the pioneers of both the high carbon (UHB 26C3) and the martensitic stainless steel (UHB AEB-L) razor strip grades.

- » **Tightly controlled width and thickness tolerances, that facilitate faultless grinding.**
- » **We offer the full range of thicknesses and widths in standard pancake coils.**
- » **We now supply narrow and thin strip in traverse wound coils from our new production line, giving the customer vastly improved productivity opportunities.**
- » **Excellent technical support including process improvement recommendations.**



RAZOR



SIZE RANGE

Thickness: 0.075 mm – 0.10 mm
Width: 3 mm – 25 mm

SCALPEL



SIZE RANGE

Thickness: 0.20 mm – 0.70 mm
Width: 5 mm – 60 mm



Our new spooling line gives us almost endless possibilities

STEEL GRADES

(Nominal composition in weight %)

HIGH CARBON STEEL UHB 26C3

C	Si	Mn	P max	S max	Cr
1,25	0,25	0,40	0,020	0,011	0,30

MARTENSITIC STAINLESS STEEL UHB AEB-L

C	Si	Mn	P max	S max	Cr
0,67	0,40	0,60	0,025	0,015	13,0

DELIVERY CONDITIONS

Our standard packing specification gives superb product protection. Customized options are offered on request.

- » **Both razor and scalpel strips are delivered unhardened.**
- » **Slit to narrow dimensions with deburred or rounded edges.**
- » **Delivered in Pancake coils or Traverse wound coils (for thin & narrow razor sizes).**
- » **Packed in wooden boxes with a centre support.**
- » **Enclosed in an anti-corrosion system.**