High quality diamonds guarantee perfect sections and a durable edge.

Easy wetting cutting edge

Optimized serial sectioning

Large boat for easy pick-up
The diamond knife for light microscopy

hypo
hypo cryo

Area of application
The histo knife is designed for the sectioning of hard and soft biological and material research specimens, non embedded or embedded in acrylic or epoxy resins. (Ref. Reymond).

Our histo knives can be used on all ultra-microtomes as well as on microtomes with a retraction of the specimen arm in the return phase.

Resharpening service:
A re-sharpened Diatome diamond knife demonstrates the same high quality as a new knife.

Even knives purchased in previous years can continue to be resharpened.

Nondecalcified rat bone.
Scale: 35 mm = 100µm.
Daniel Studer, Anatomisches Institut, Bern.

E. B. Hunziker, M. E. Müller Institute for Biomechanics, University of Bern.
Rabbit joint, calcified cartilage/bone. X760

Our histo cryo knives are delivered with a boat for wet sectioning using a DMSO/water mixture or in triangular holders for dry sectioning. They are made from a special copper-nickel alloy, which guarantees the best possible thermal conduction.
For 3D reconstruction it is imperative not to lose a single section (Ref. Blumer).

The large Jumbo boat as well as the adhesive (Pattex compact by Henkel) applied to the side of the sample block increase the distinct advantages of our histo knives.

They allow:
- Easy production of section ribbons (0.5-2µm)
- No section loss
- No folding
- The same orientation of all sections
- Easy collection of section ribbons
- Multiple ribbons on one glass slide
- Perfect for Immuno-histo-chemistry.

Eye of A. peroni: photographic sequence of some semithin sections of a complete serie through the eye.
L = lens; RE = retina.
Michael J.F. Blumer, Institut für Zoologie, Universität Wien.
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<th>histo</th>
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<td>45°</td>
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<td>Cutting range</td>
<td>0.2 - 5µm</td>
<td>0.2-5µm</td>
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References

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