
INDEX TO ADVERTISERS

Diatome	Cover 2, Cover 3
EDAX	A10
Electron Microscopy Sciences, EMS	A12, Cover 4
Physik Instrumente	A4, A11
Ted Pella	A6
Tescan	A3

Nano-Focus Drives & Nanopositioning Stages for Microscopy, Wafer Metrology, Laser Processing...



PI's latest breakthrough designs based on voice coil motors, ultrasonic motors, and piezo-flexure amplified actuators provide longer travel, higher dynamics, better resolution, higher guiding precision, and improved versatility.

- 7mm Travel with Voice Coil Motor
- 800 μ m Travel with Piezo Flexure Motor
- Built-in, Adjustable Counterbalance
- Millisecond Step and Settle
- Nanometer Precision

www.pi.ws/focus



Physik Instrumente
www.pi-usa.us
(508) 832-3456
AskPI@pi-usa.us

XY-Microscope Stages
w/ Self-Locking Motors



UHV Nanopositioning
Stages: X, XY, XYZ



Well-Plate
Scanners



Fast Steering
Mirrors



MAKING THE IMPOSSIBLE POSSIBLE: ENABLING INNOVATION SINCE 1970

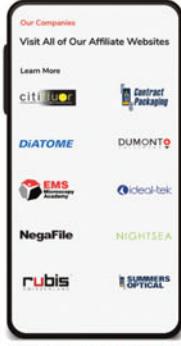


The most comprehensive source
for all fields of microscopy, histology
and general laboratory research...
gets an upgrade.

It's the EMS website you've been waiting for.
An all-new design with the familiar huge selection
of products, services, and technical info, plus
improved quoting system, shipping calculator,
and customer accounts that will allow you to
shop faster, stay updated on your order's status,
and keep track of your previous orders.



[Access New Products](#)



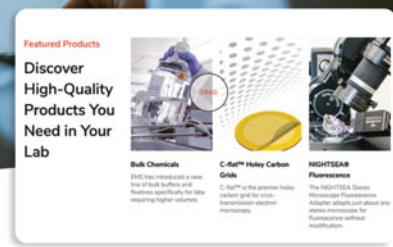
[Access our Affiliates](#)

www.emsdiasum.com
The New EMS Website...

ONLINE 3Q 2022

**Electron
Microscopy
Sciences**

P.O. Box 550 • 1560 Industry Rd • Hatfield, PA 19440
Tel: (215) 412-8400 • Fax: (215) 412-8450
email: info@emsdiasum.com • www.emsdiasum.com



[Access over 25,000 Products](#)

**EMS Virtual Catalogs
and PDF Downloads**



[Access our PDF and Virtual Catalogs](#)



[Access Technical Information & News](#)



Cambridge Core

The new
home of
academic
content



cambridge.org/core

Cambridge **Core**





Life Sciences

Books and Journals from
Cambridge University Press

Cambridge is one of the leading publishers in ecology and conservation biology and publishes high quality texts and research across the breadth of the life sciences, focusing particularly on animal behaviour, biological anthropology, evolutionary biology, computational and systems biology, as well as statistics and professional development titles for biologists.

We also have an extensive portfolio of established journals in agriculture, ecology and conservation, and animal science.

For further details visit:
cambridge.org/core-life-sciences

Cambridge
Core



CAMBRIDGE
UNIVERSITY PRESS

Cambridge Core

Access
leading
journals in
your subject



Explore today at cambridge.org/core

Cambridge **Core**

 CAMBRIDGE
UNIVERSITY PRESS

DiATOME

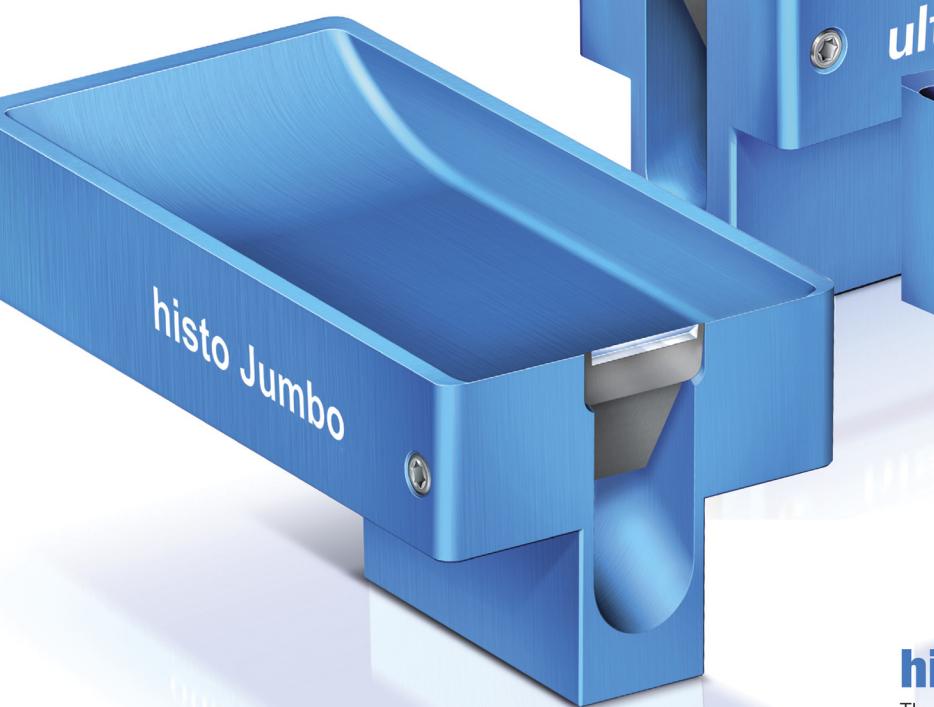
the incomparable
Diamond Knife for
all fields of research...

Please visit our website
for our complete range
of Diamond Knives:
www.diatomeknives.com

Diamond Knives

ultra Maxi

Similar to our ultra 35° 4.0 mm but with a larger boat. Applications include soft industrial samples such as metals and polymers, hard and brittle samples such as semiconductors, superconducting oxides, nanocrystalline ceramics.



Eye of *A. peroni*: part of a sequence of semithin sections.
Michael J.F. Blumer, Institut für Zoologie, Universität Wien.
Reprinted from: Ribbons of semithin sections an advanced method with a new type of diamond knife. Journal of Neuroscience Methods 120 (2002 11-16), with permission from Elsevier. See the complete series on [diatomeknives.com](http://www.diatomeknives.com).

histo Jumbo

Perfect for Immuno-histo-chemistry

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. They allow:

- Easy production of section ribbons (0.5-2 µm)
- No section loss
- No folding
- The same orientation of all sections
- Easy collection of section ribbons
- Multiple ribbons on one glass slide

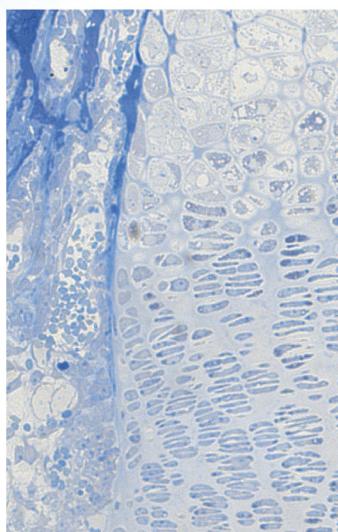
histo

The knife is designed for the sectioning of hard and soft biological and industrial materials, non embedded or embedded in methacrylate or epoxy resins. The histo knife may be used on all ultramicrotomes and microtomes with a retraction of the specimen in the return phase.

Advantages compared to glass knives:

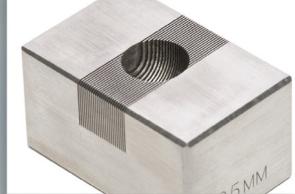
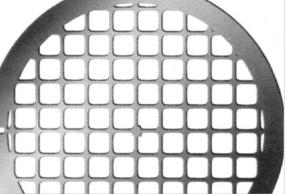
- Perfect sections, free of scores or compression
- Serial sections without knife change
- Thinner sections

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



DiATOME U.S.

P.O. Box 410 • 1560 Industry Rd. • Hatfield, Pa 19440
Tel: (215) 412-8390 • Fax: (215) 412-8450
email: info@diatomeknives.com • www.diatomeknives.com



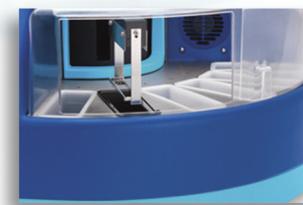
TEM GRIDS & ACCESSORIES...EMBEDDING MOLDS...SEM SUPPLIES...SECTIONING SUPPLIES...NIGHTSEA® SYSTEMS



IMMUNOGOLD REAGENTS...TOOLS...LIQUID HANDLING...SLIDES AND COVERGLASS...LABORATORY CHEMICALS



The Most Comprehensive
Source for all Fields of
Microscopy, Histology and
General Laboratory Research



LABELING & TAPE...BIOPSY CASSETTES

SLIDE STAINERS



**Electron
Microscopy
Sciences**

everything a lab could need...

P.O. Box 550 • 1560 Industry Rd. • Hatfield, Pa 19440 • Tel: (215) 412-8400 • Fax: (215) 412-8450 • email: info@emsdiasum.com • www.emsdiasum.com

TISSUE SLICERS...SLIDE WARMERS...VACUUM EQUIPMENT...LYNX II TISSUE PROCESSOR...TWEEZERS

