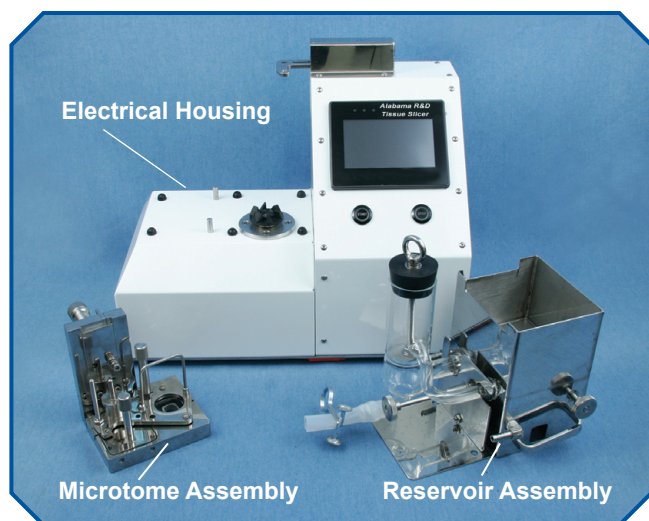
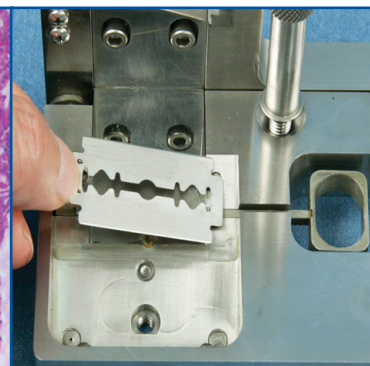
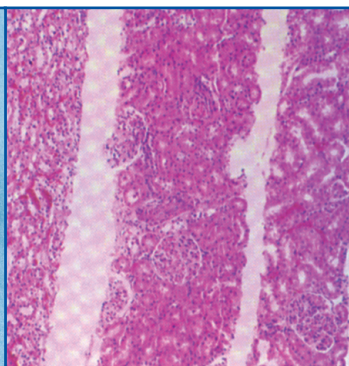




Alabama R&D Tissue Slicer

(formerly the
Krumdieck Tissue Slicer)

Live Tissue Slicer Microtome



The Alabama R&D Tissue Slicer (formerly the Krumdieck Tissue Slicer) is used to rapidly prepare aseptic, thin slices of live tissues suitable for toxicology and other in vitro studies. Its user-friendly design has a host of new features that enable the end user to concentrate more on their experiments rather than machine operation.

Advantages:

- Easy to use - no technical expertise required.
- Electronic Key Pad replaces manual switches and dials.
- Fewer moving parts providing consistent results with less adjustments.
- Fast and effective in producing a high volume of slices.

Advanced Features:

- New cabinet design with state-of-the-art DC electronic upgrades.
- Revised magnetic blade holder to improve stability for more consistent slices.
- Reengineered shorter counter-balanced drive shaft for smoother blade travel.
- Independent speed controls for both reciprocating arm and blade motor.
- Only commercially available sterilizable microtome.



ALABAMA
RESEARCH AND
DEVELOPMENT

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Tissue Coring Press

This easy-to-use unit is used to prepare live cylindrical tissue cores for use in the Alabama R&D Tissue Slicer. The design incorporates a DC motor coupled with an integrated precision gear-head. Just plug in the unit, turn on the switch and you are ready to make cores. The coring press is designed to be used with our coring tools ranging in size from 3 mm to 10 mm.

Advantages:

- Eliminates the need for skillful operators to cut cores free hand.
- Ensures obtaining reproducible cores.
- Minimum training time needed for technicians to obtain high quality cores.

Tissue Coring Tools

Our coring tools are used for cutting cylindrical live tissue cores for use in the Alabama R&D Tissue Slicer. Thin wall stainless steel tubing used in other coring tools does not hold an edge well and is difficult to sharpen. Our coring tools are made from heat-treated, knife-quality stainless steel. The cutting edge angles are designed to give sharp, well-formed tissue cores. The tools can be used either as hand-held tools or used with the tissue coring press. The coring tools are available in four standard sizes: 3mm, 5mm, 8mm, and 10mm.



Tissue Embedding Unit

The Tissue Embedding Unit is used to prepare tissue samples for slicing by fully encasing them in an agarose gel. The gel, which does not adhere to the tissues, easily separates from them after slicing. Sectioning agarose embedded samples significantly improves the quality of the slices. Thinner slices of very reproducible dimensions are easily obtained. Embedding widens the scope of tissue samples that can be sectioned by the Alabama R&D Tissue Slicer.

Incubation Unit

Alabama R&D's Incubation Unit has been designed to provide optimal oxygenation and nutrient delivery to tissue slices in organ culture and to minimize damage and facilitate handling of the slices during preparation. Slices are easily loaded onto specially designed titanium screen holders by a tissue slice loader that eliminates the use of slice-damaging forceps or spatulas. The loaded slice holders are transferred to standard tissue culture six-well plates which are rotated (1 rpm) on an inclined plane to alternately expose the slices to the atmosphere of the tissue culture incubator or dip them in the culture medium.

