Workflow Instruments
GKM2 Glass Knife Maker

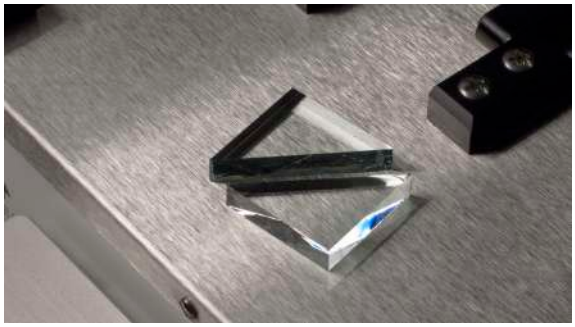
RMC Boeckeler

GKM2

High Precision Glass Knife Maker For Perfect Glass Knives

Features

- Solid, heavy design
- Easily produces consistent, controlled breaks
- Digital readout displays load applied to glass as breaking arm is moved
- Produces knives up to 12 mm wide
- "Balanced Break" method for the sharpest knives
- Precision micrometer positioners
- Built-in mechanical stops for easy positioning
- Precision mechanism supports "Slow-Break" technique



The RMC GKM2 was developed to produce the highest quality glass knives, utilizing the balanced break technique. To achieve reproducible results, two aspects of the breaking process must be measurably controlled: position and load. The positioning of the glass on the GKM2 is controlled using precision micrometers. The breaking pressure, or load, is controlled through the constant feedback displayed on the digital readout as the clamping handle and breaking arm are adjusted. This allows the lowest load possible to break the glass and so deliver long, straight knife edges.

The GKM2 is specifically designed, incorporating the "balanced break" method to produce optimum and reproducible breaking and thus high quality knife edges. As the name implies, the balanced break requires an equal length of glass on each side of the score, along with a mechanism that applies equal load to each side, resulting in a straight break through the glass. This is important as this newly formed edge will become the actual knife edge. The GKM 2 also makes it possible to achieve consistent
"slow breaks" desired to produce the best knives for cryosectioning.

The body of the GKM2 is precision machined from solid metal components to provide a stable platform for this exacting technique. It is designed to handle glass strips from 6 mm (1/4"), 8mm, 10 mm and 12mm in thickness and 25mm wide, with mechanical stops to produce 25 mm glass squares with ease. Micrometers provide precise and reproducible alignment of these squares for the diagonal breaks to produce the knives. Alignment is secured by a locking mechanism to maintain your desired settings.

Pressure sensor and digital display enable the operator to produce accurate knives with each controlled break. Precision micrometers accurately position glass squares for the final break into knives. The solid platform, micrometer positioners, and digital load readout all contribute to reliably producing the sharpest knives.

An instructional video with details on how to make consistent, high quality glass knives with the RMC Glass Knife Maker is included.