The New Economical Schley Compact Model III

The new economical Schley Compact Model III insemination device provides another option to the standard and compact Schley models. This instrument is a new generation in design. It is offered as a complete package, including the microscope, light, CO2 source and power supply. Everything is ready and set up for immediate use, anywhere including in the field.

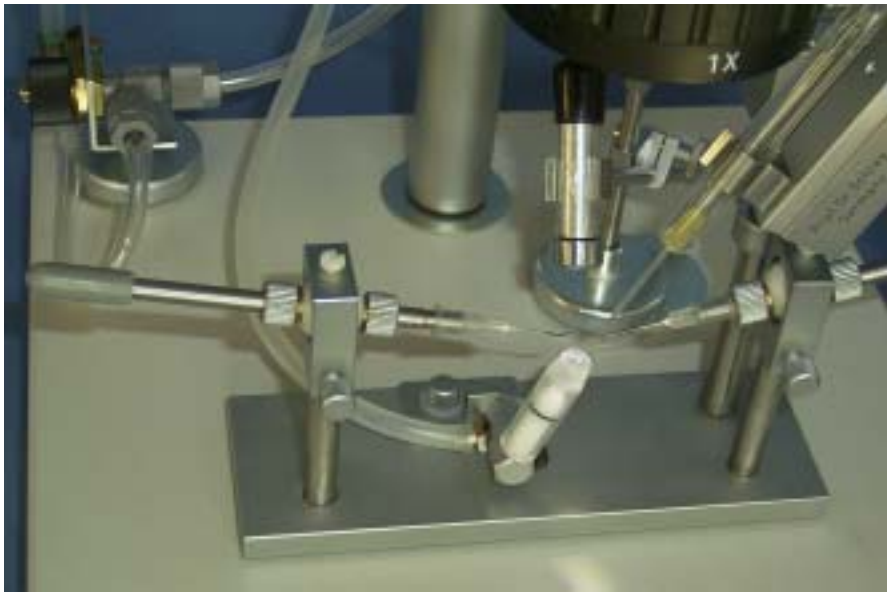
This new model features optics that are attached to the a instrument, with a special 250 x 250 mm microscope stand and the high-quality optics of the new MOTIC SFC stereo microscope. The design is light weight, very economical, and self contained, including the power supply. It is very convienent for travel.

The insemination device is attached with a screw directly on the microscope plate of the stand, providing stability. The support columns have smaller-sized ball and socket assemblies for the hook holders. These are pre-adjusted and ready for use, eliminating the need for adjustment. The hooks, attached manually, slip on the handle for easy exchange. The queen holder is moveable, allowing various angles to be set for the syringe holder.

The ball and socket movement of the hook assembly blocks and the rack-and-pinion drive for the syringe remain the same as previous models. These precision components continue to guarantee the high standard of quality.

To provide carbon dioxide to anesthize the queen during the procedure, disposable one-way-cartridges are used. In addition, the option of using larger pressurized cylinders and a corresponding pressure regulator are possible.

A white diode light is attached to a collective lens, providing the direct light required with a diameter of approximately 10 mm. This is battery powered and self contained, offering a very portable system, with minimal power requirement. Three 1.5 V Alkaline batteries are used to



provide 200 hours of operation. The holders for the carbon dioxide supply and the LED light are attached to the instrument using magnets, allowing firm support and fine adjustment.

A major design change, as requested by Susan Cobey (Ohio State University, USA), is the new large capacity syringe modeled after the HARBO system. The micrometer control is attached to the micro-manipulated syringe for easy access.

This new device, another option to the standard Schley instrument and the Schley Model II, offers a complete and self contained unit. As a package, the insemination instrument, microscope, light and CO_2 source are very economical.

Carbon dioxide cartridge and flow regulator