BIONIKO SURGERY MODELS

present the major dexterity and coordination challenges of a particular type of surgery, and allow the techniques to be practiced using real surgical instruments. Surgical models allow seasoned surgeons to demonstrate special surgical techniques to students, and the students to practice and perfect the technique in a controlled and repeatable manner. Furthermore, synthetic models enable repeatable and standardized assessment of surgical techniques for instructional purposes.

BIONIKO ophthalmic models can help residents develop the fine motor skills required to perform surgery under an operating microscope. The **RHEXIS (RHX)** model helps develop incision and forceps control. The KERATO (PKS) model helps develop

micro-suturing skills.





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OPHTHALMIC SURGERY MODELS



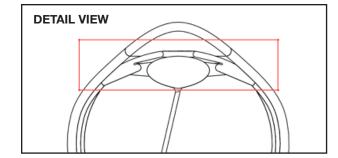
By presenting the main challenges of the capsulorhexis technique, the RHEXIS (RHX) model allows you to train and improve the fine motor skills required to manipulate instruments through ports; a fundamental skill in ophthalmic surgery

ORBIT MODEL



HOW TO USE

- 2 secure
- 3 leveraging the model out





Create an access port. Make an incision on the limbus with your slit knife of choice. Entry depth, angle and incision width can be demonstrated and practiced

SIMULATED STRUCTURES

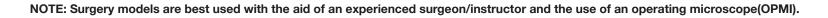
SCLERA

ZONULE

2 Start a capsule tear. Introduce a cystotome through the port and create a tear on the capsule



Perform a capsulorhexis. Manipulate your micro-forceps of choice through the port to create a continuous circular tear on the capsule





LIMBUS

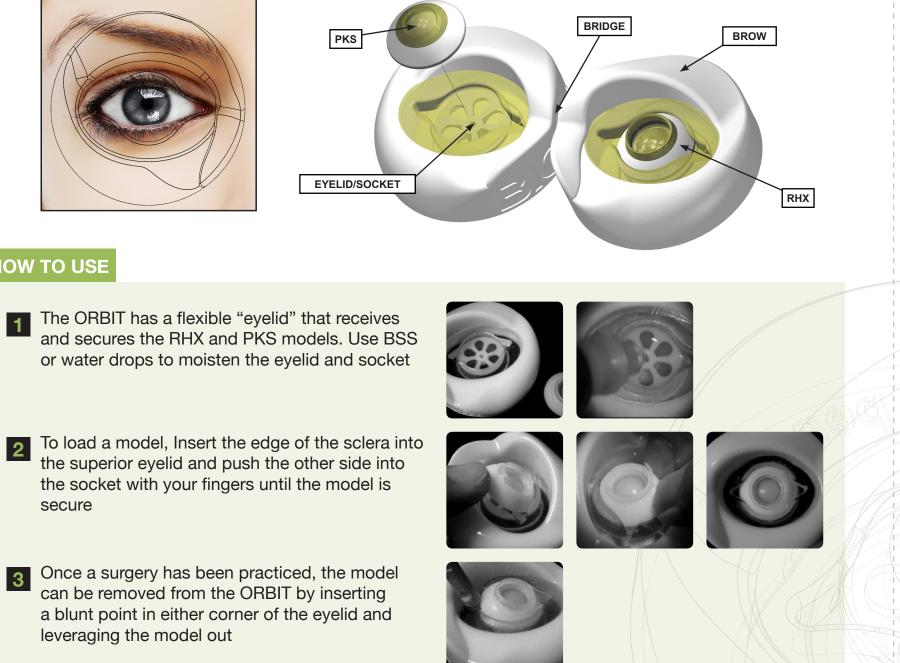
CAPSULE

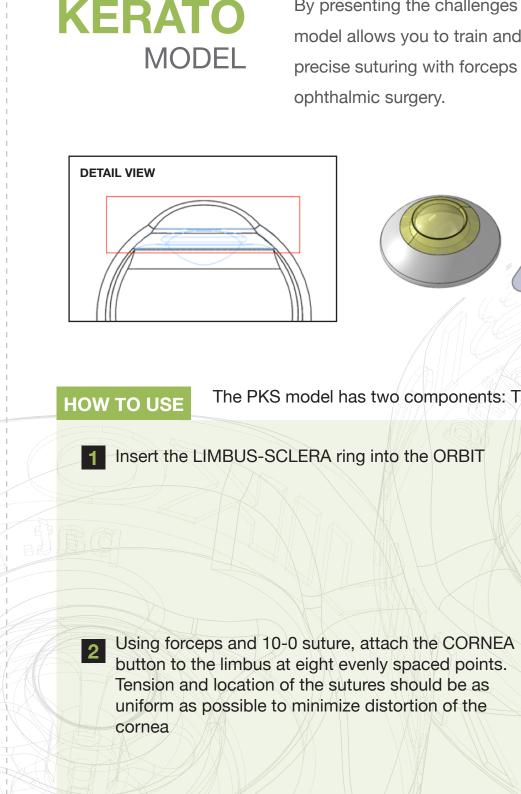
CORTEX





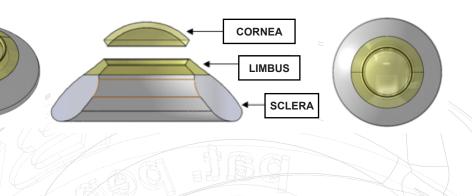
The **ORBIT** serves as a holder for the RHX and PKS models and provides reference and realism by challenging you to manipulate your instruments according to the facial structures around the eye. There are both right (OD) and left (OS) ORBIT models to practice both approaches.





NOTE: Surgery models are best used with the aid of an experienced surgeon/instructor and the use of an operating microscope(OPMI)

By presenting the challenges of a penetrating keratoplasty, the **KERATO (PKS)** model allows you to train and improve the motor skills required to perform precise suturing with forceps under a microscope; a fundamental skill in



The PKS model has two components: The LIMBUS-SCLERA ring and the CORNEA button.

