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NeoGrip Surgical Instruments

QUICK RELEASE NEEDLE DRIVER
INSTRUCTION GUIDE



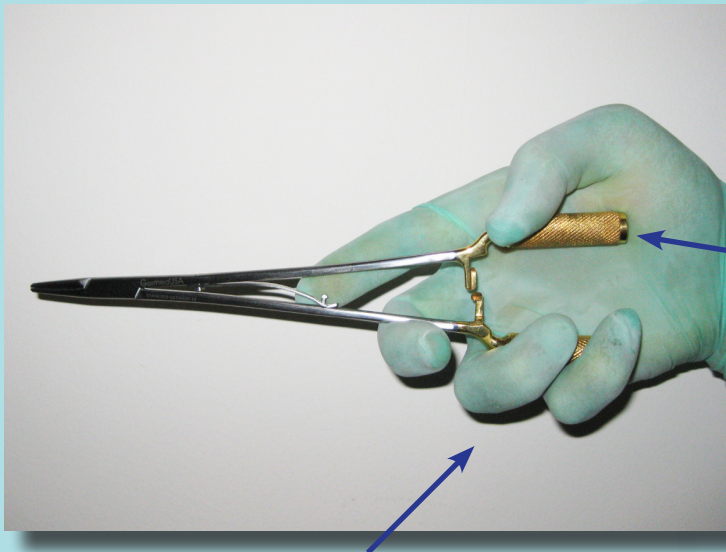
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INSTRUCTIONAL GUIDE FOR *NeoGrip* NEEDLE DRIVER

The *NeoGrip* Needle Driver is designed to work with the surgeon's hands for improved grip, balance and efficient maneuvering within the surgical site. This instructional guide illustrates how to use the *NeoGrip* Needle Driver as well as how to lock and unlock the instrument. The *NeoGrip* handle is designed to work ergonomically with the surgeon's hand and wrist to reduce muscle fatigue and cramps.

GRIPPING THE NEEDLE DRIVER

The *NeoGrip* Needle Driver is designed to be held in a palm grip but can be maneuvered into other grips including a pencil grip easily (for instructions on grips, please review our instructional guide on gripping the instrument).



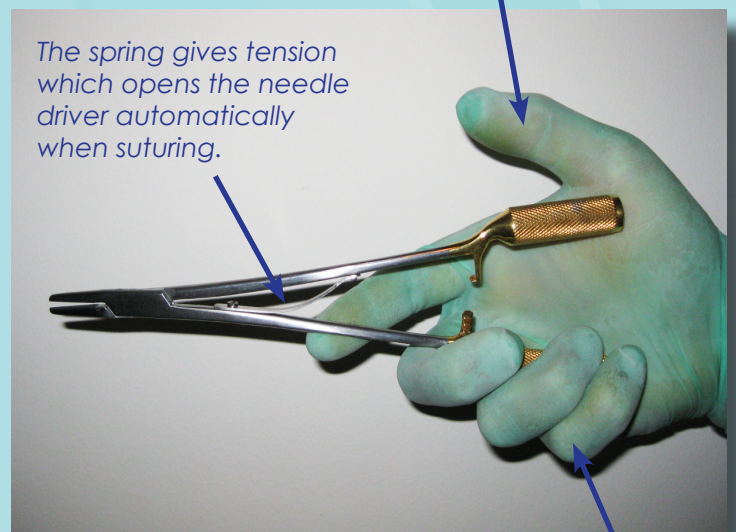
4th and 5th digits are wrapped around the handle for stability.

To use a palm grip, the Needle Driver is placed into the palm of the surgeon's hand. The 4th and 5th digits are wrapped around the handle to provide stability. The other handle is placed against the base of the thumb for locking and unlocking the instrument.

The handle is pressed against the base of the thumb for locking and unlocking.

Base of the thumb is used to lock and unlock the surgical instrument.

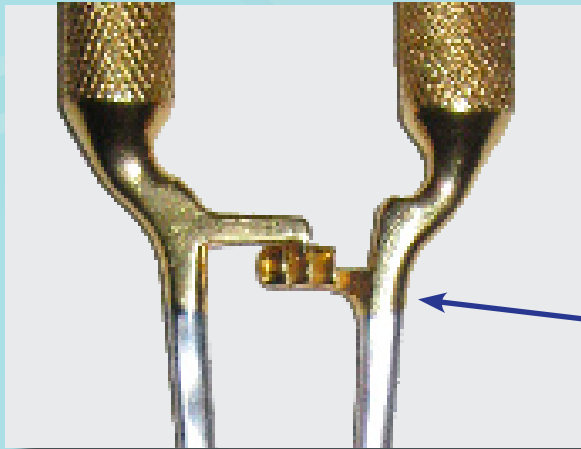
The *NeoGrip* Needle Driver has a spring that opens the jaws of the needle driver when the ratchet is unlocked as demonstrated in the image to the right. The spring action of the needle driver makes grasping a suture needle easier and provides efficiency and stability when suturing a wound.



The spring gives tension which opens the needle driver automatically when suturing.

4th and 5th digits hold the handle for stability.

LOCKING AND UNLOCKING OF THE NEEDLE DRIVER

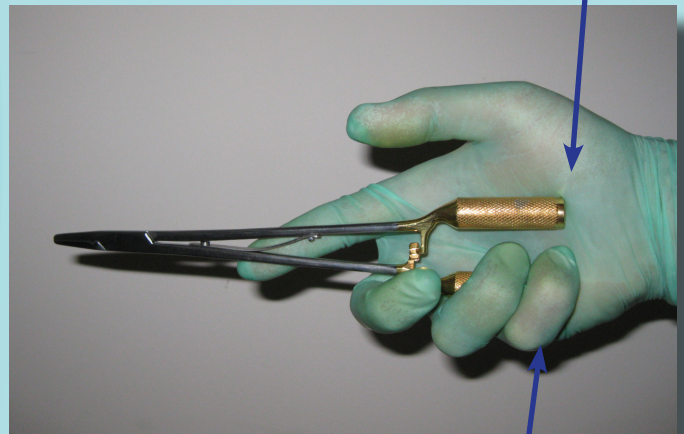


The *NeoGrip* Needle Driver has a quick release ratchet for easy locking and unlocking of the instrument. The quick release ratchet allows the surgeon to unlock the instrument by squeezing the two shanks together.

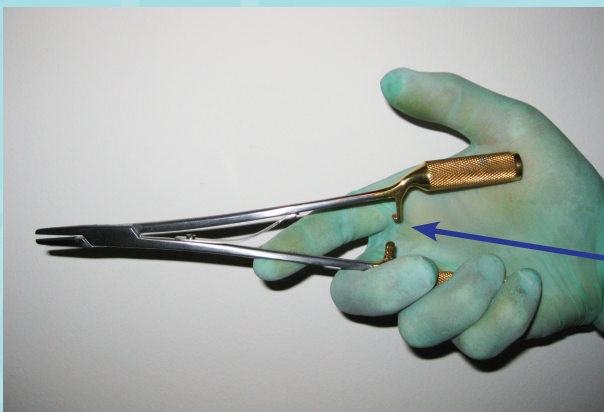
The quick release ratchet is modified so when the shanks are squeezed together the instrument unlocks.

When unlocking the instrument, the base of the thumb presses firmly against the handle bringing the shanks together until the locking mechanism releases. The third groove of the ratchet is designed to unlock the instrument automatically. Once the instrument is unlocked, it will open due to the spring between the shanks which resets the needle driver for another throw.

Base of the thumb pushes down firmly to unlock.



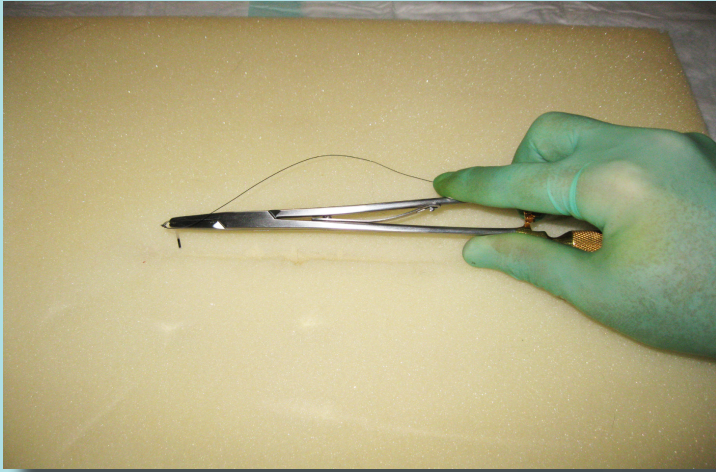
4th and 5th digit hold the other handle.



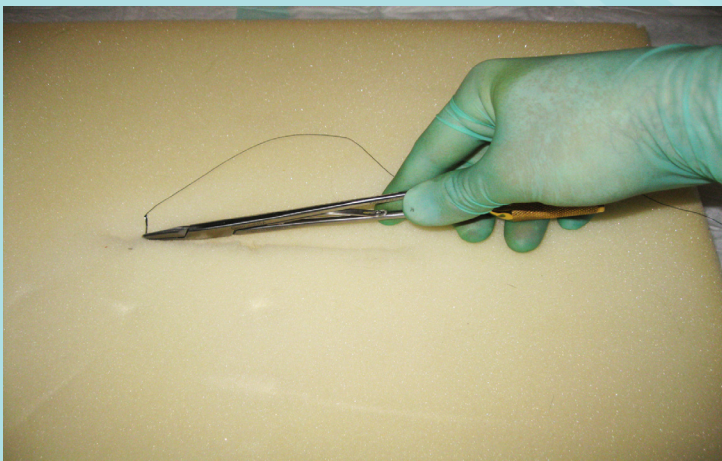
The quick release ratchet unlocks and opens automatically due to the spring between the shanks which resets the needle driver for another throw.

BASICS OF SUTURING WITH THE *NeoGrip* NEEDLE DRIVER

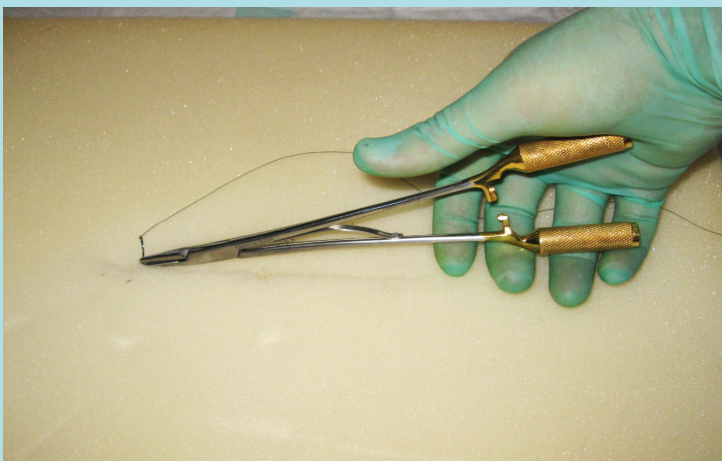
There are many advantages to using the *NeoGrip* Needle Driver. In this basic demonstration of suturing it can be seen that the *NeoGrip* Needle Driver can turn in tight spaces, maintain a stable turn and work efficiently to improve the procedure.



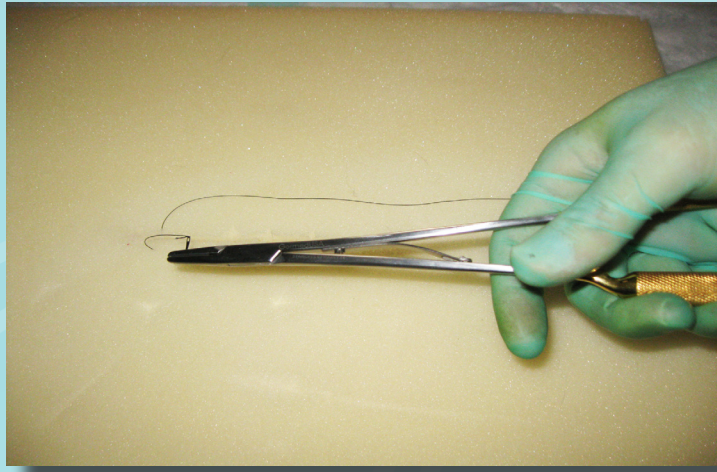
1.) In making the first throw of a basic suture, the needle driver holds the needle at the tip of the instrument. The surgeon's wrist and hand is holding the needle driver with a palm grip to make the throw in this demonstration.



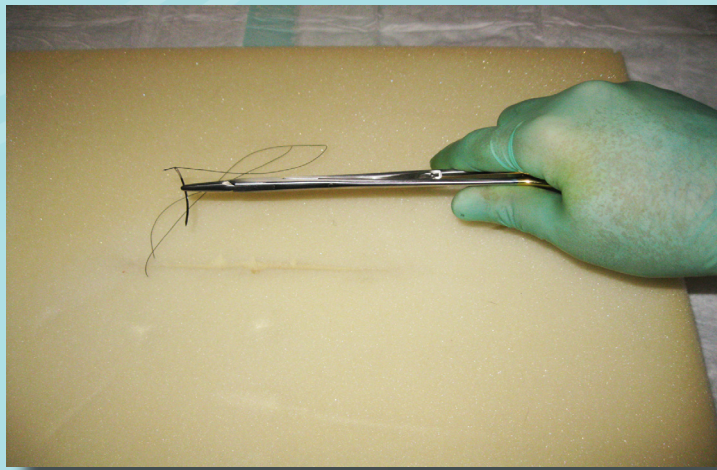
2.) The wrist and hand are turned in a tight, stable rotation to make the throw.



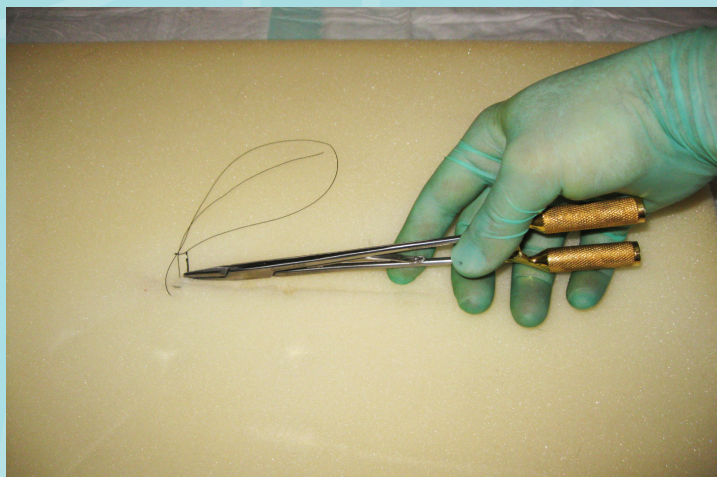
3.) The two shanks are squeezed together by the thumb on one handle and the fourth and fifth digits on the other handle. The shanks open due to the spring between the shanks and is ready to grab the needle again.



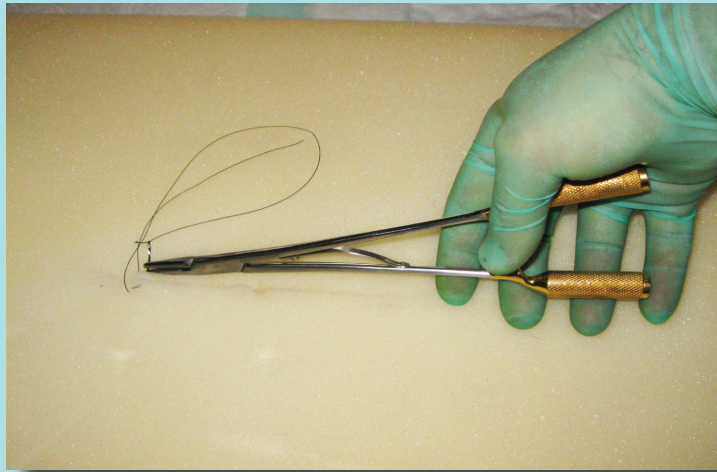
4.) The needle driver pulls the needle through to set for another throw.



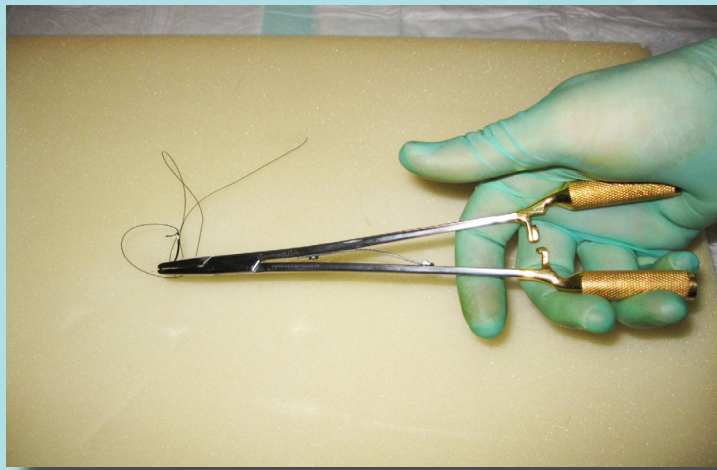
5.) The needle has been grasped by the tip of the needle driver and is ready to make another throw.



6.) The surgeon turns the wrist and hand to push the needle through to complete the throw.



7.) The two shanks are squeezed together to release the needle.



8.) The needle driver pulls the needle through to set for another throw. This process is repeated until the wound is closed.

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