

Apex Wire Former



Diagrams

A Shaft Instructions

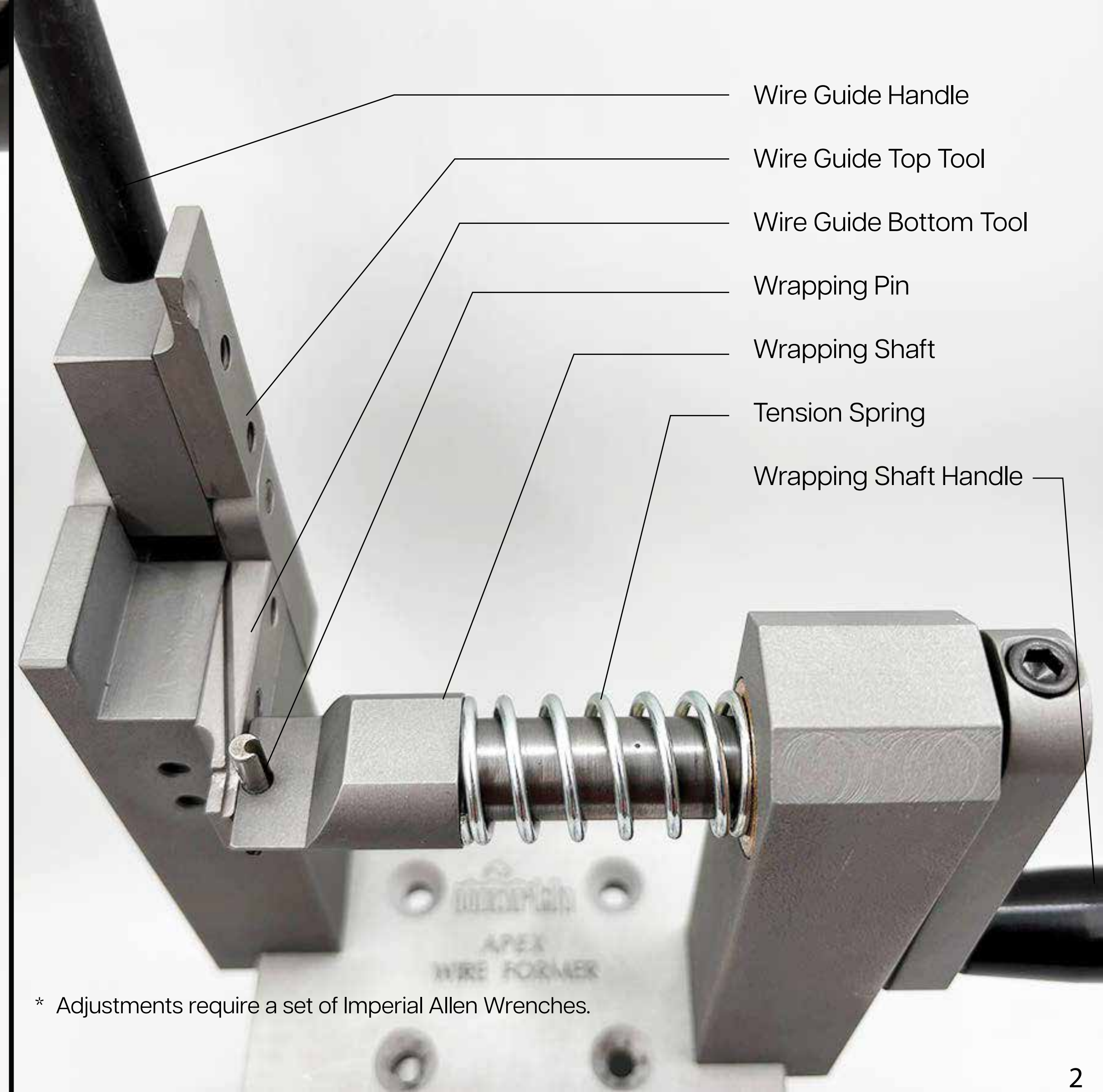
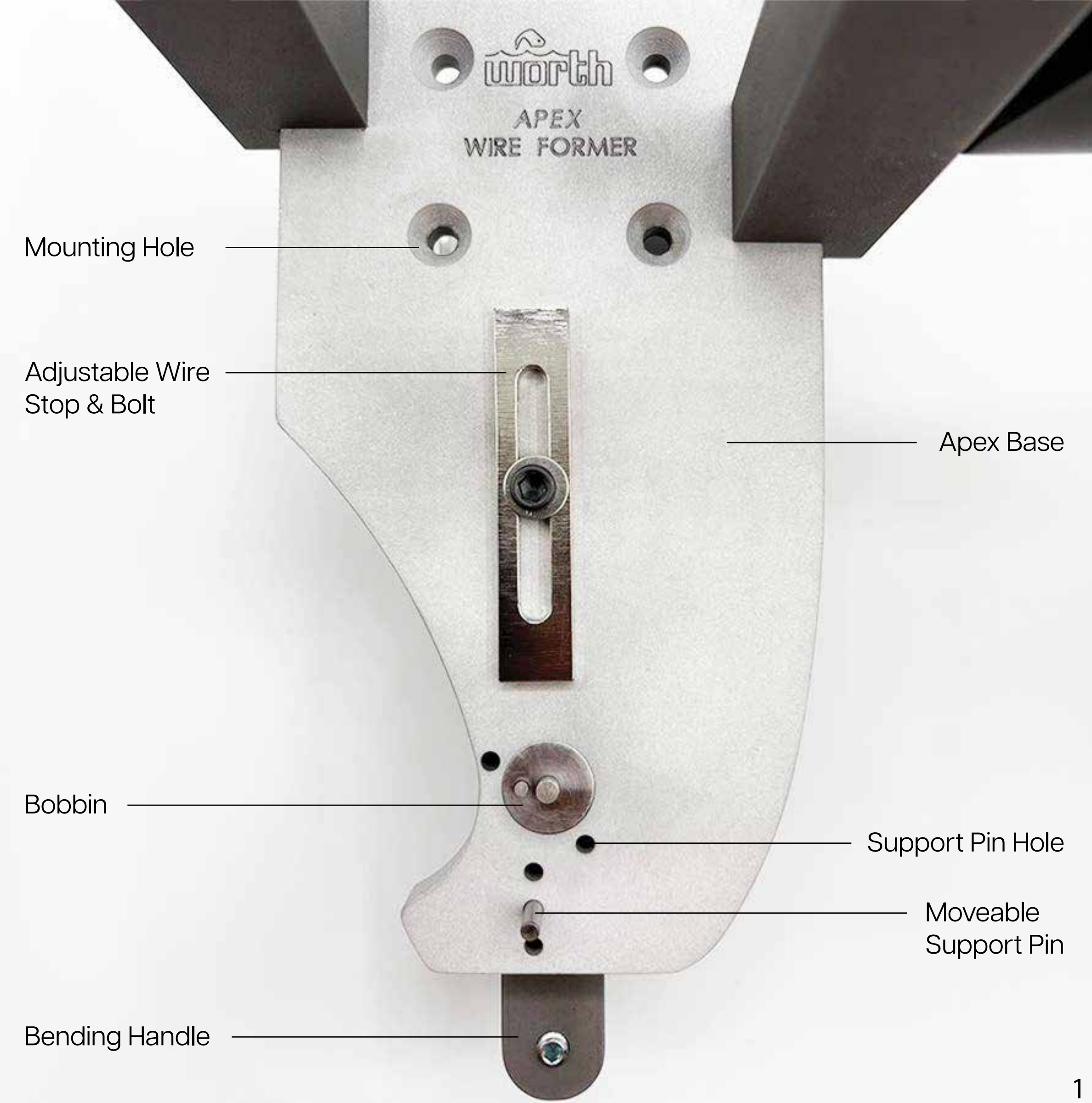
B Shaft Instructions

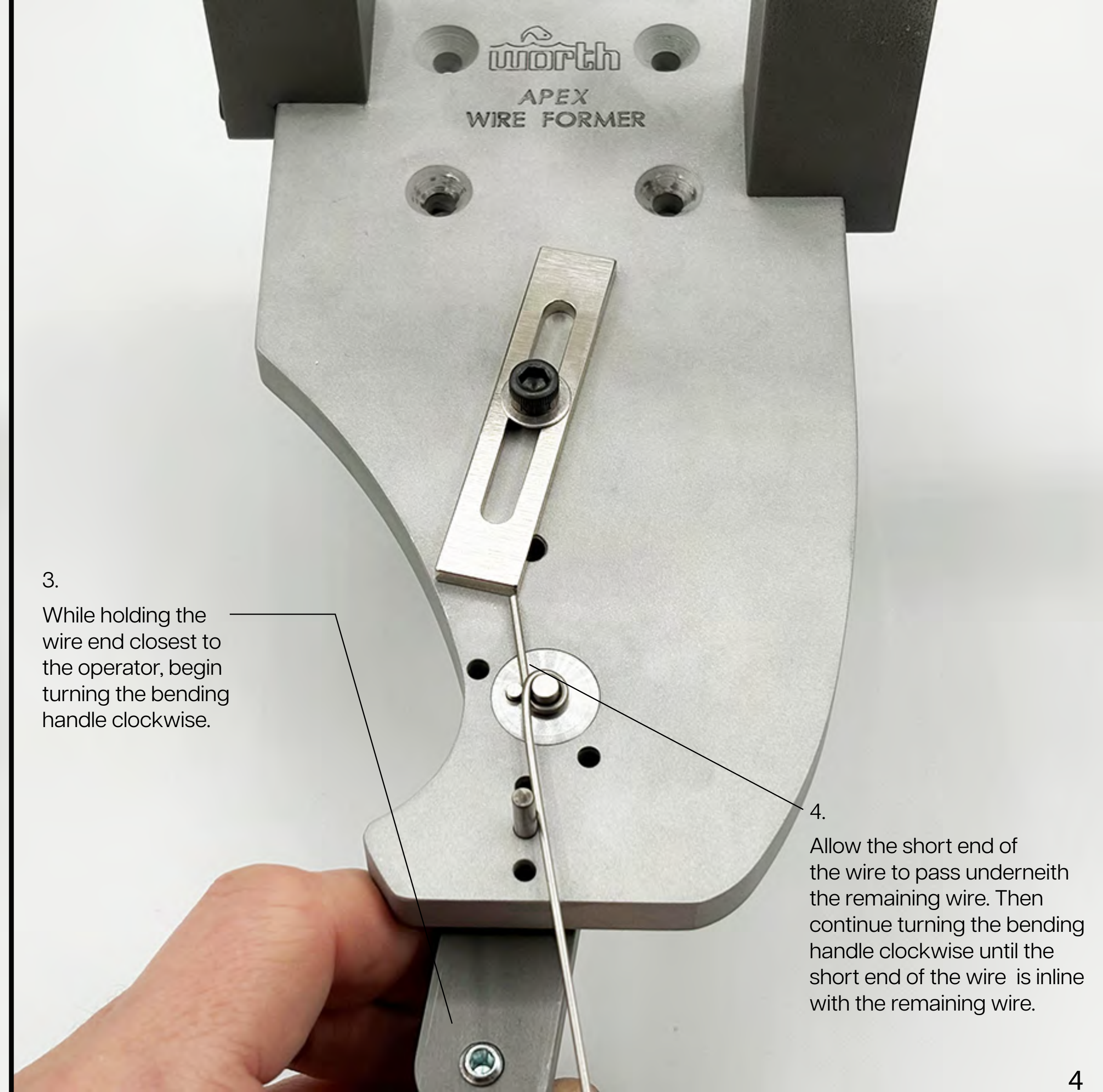
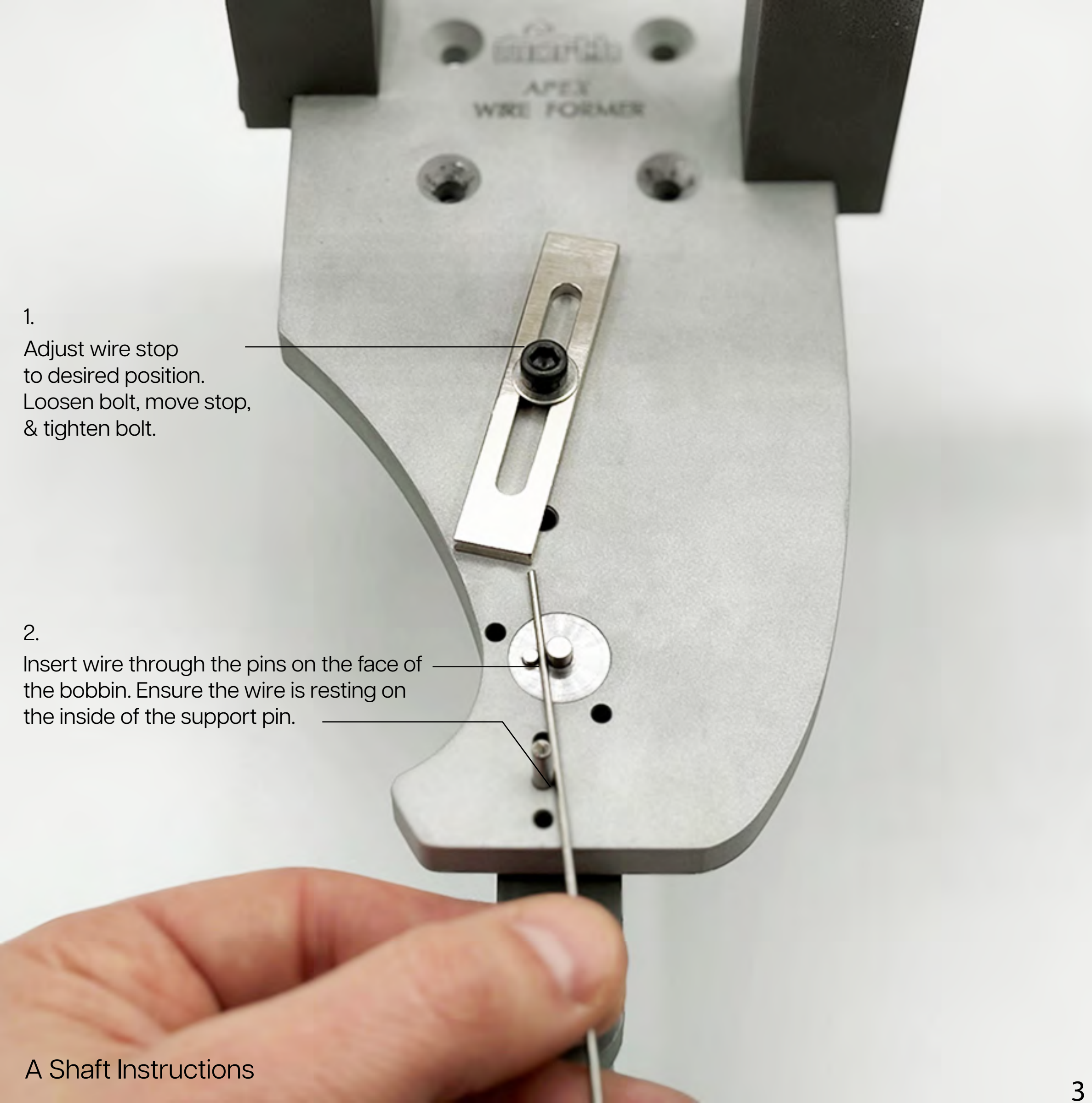
Installing Wire Guide Tooling

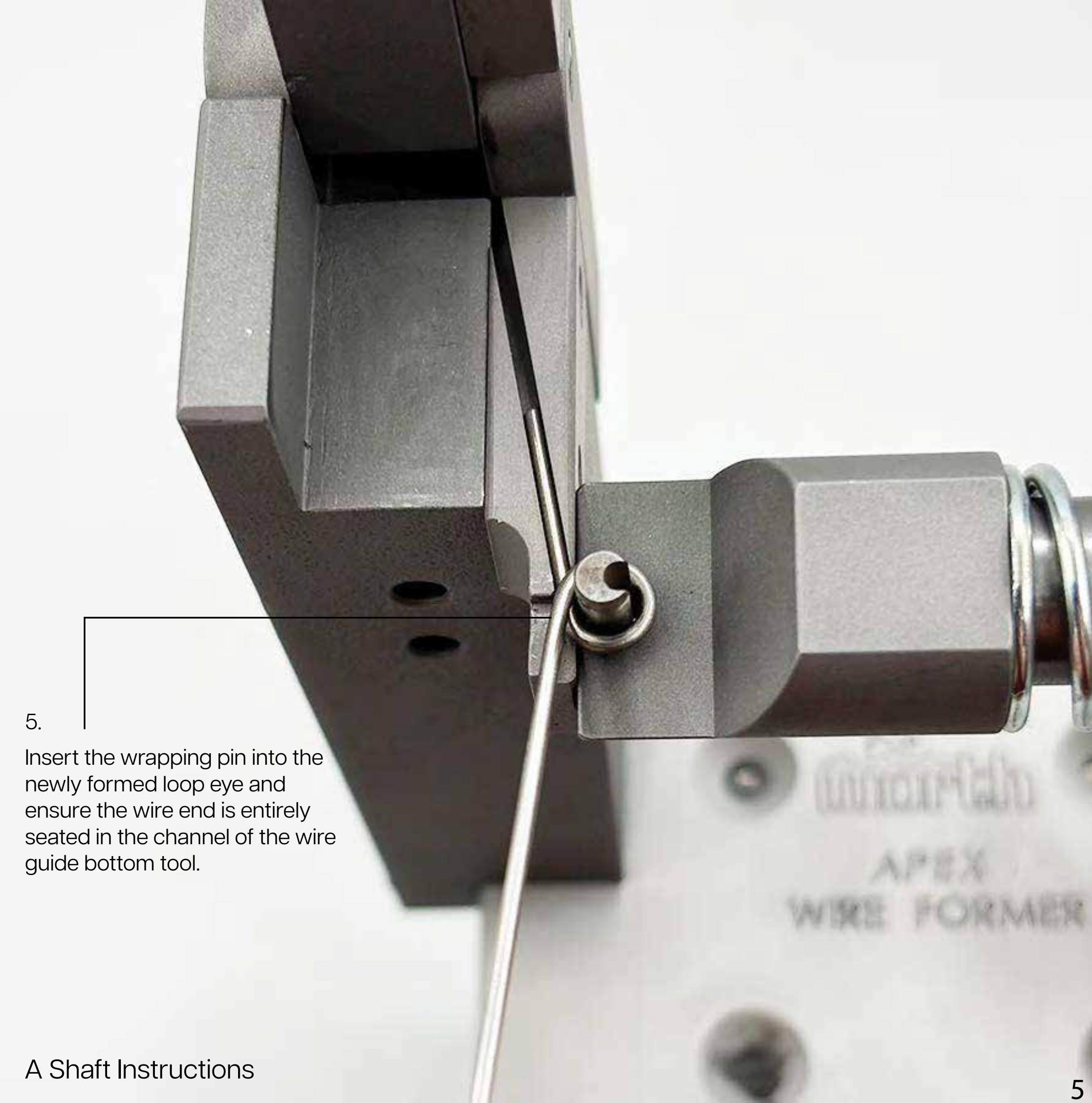
Installing Wrapping Shaft

Installing Bobbin

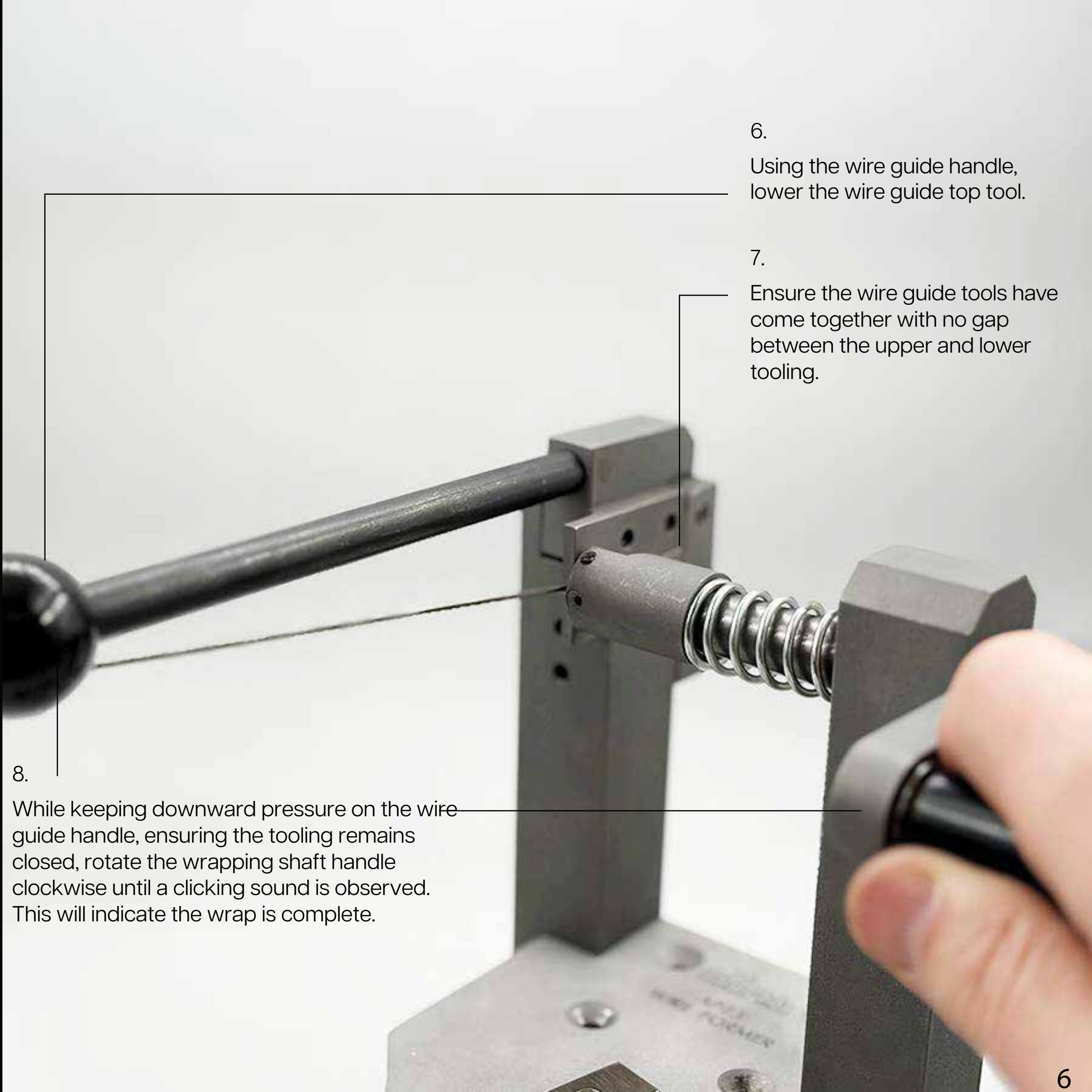
* Always wear eye protection while operating as wire fragments may be ejected during operation.







5. Insert the wrapping pin into the newly formed loop eye and ensure the wire end is entirely seated in the channel of the wire guide bottom tool.

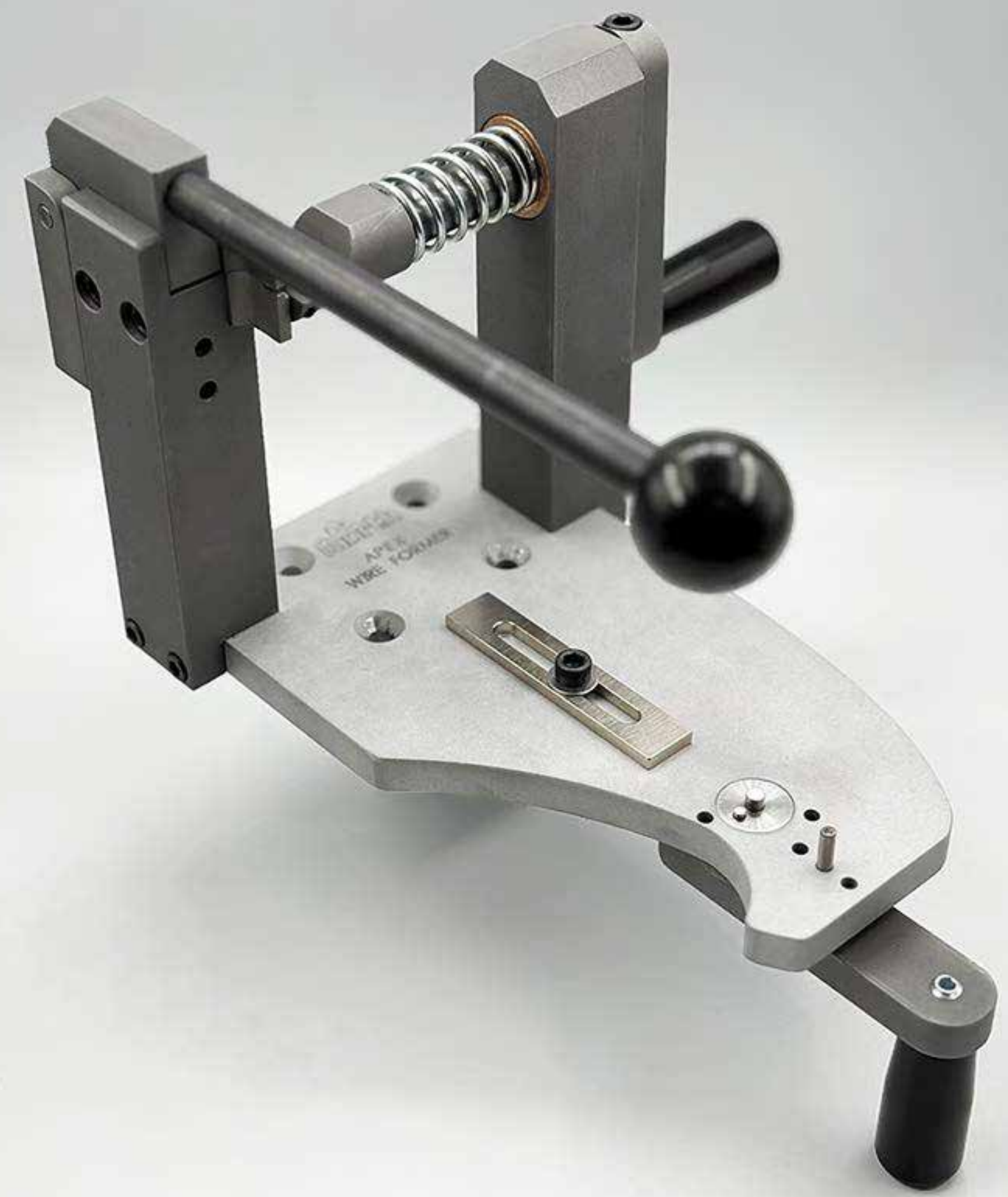
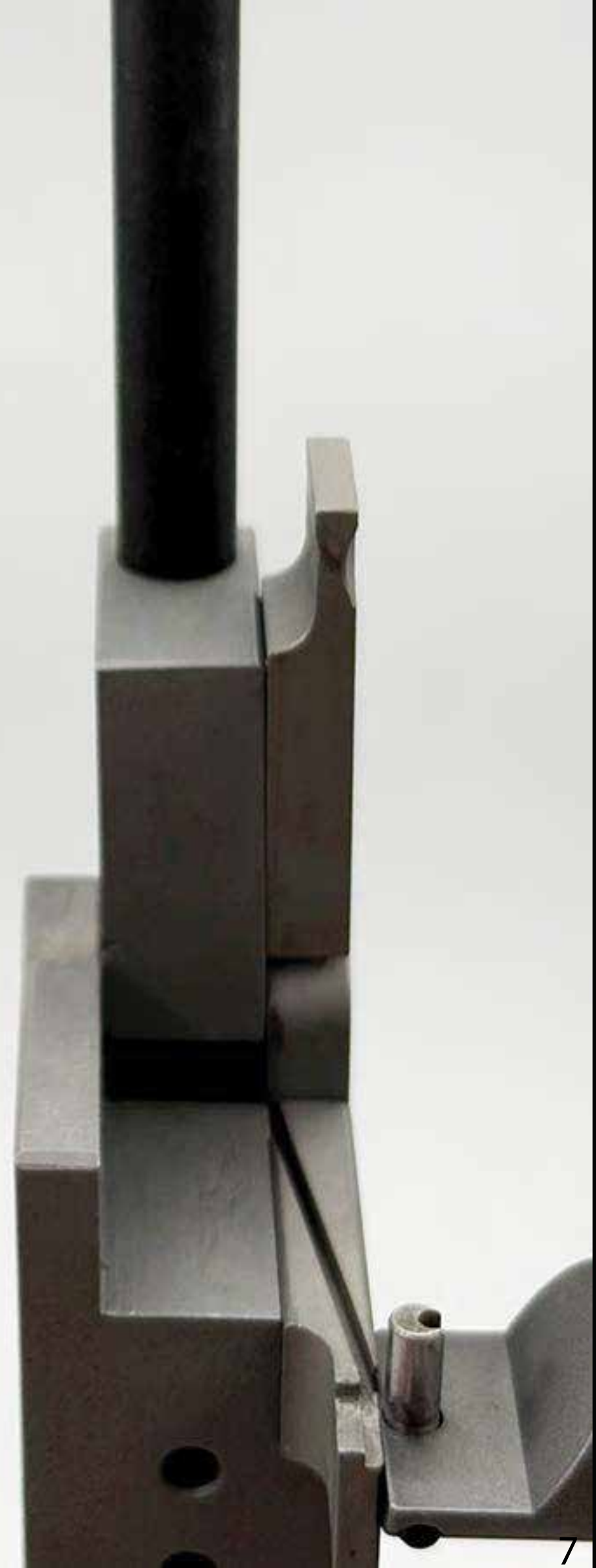


6. Using the wire guide handle, lower the wire guide top tool.

7. Ensure the wire guide tools have come together with no gap between the upper and lower tooling.

8. While keeping downward pressure on the wire guide handle, ensuring the tooling remains closed, rotate the wrapping shaft handle clockwise until a clicking sound is observed. This will indicate the wrap is complete.

9.
Lift the wire guide handle and remove the fully formed and wrapped A shaft.

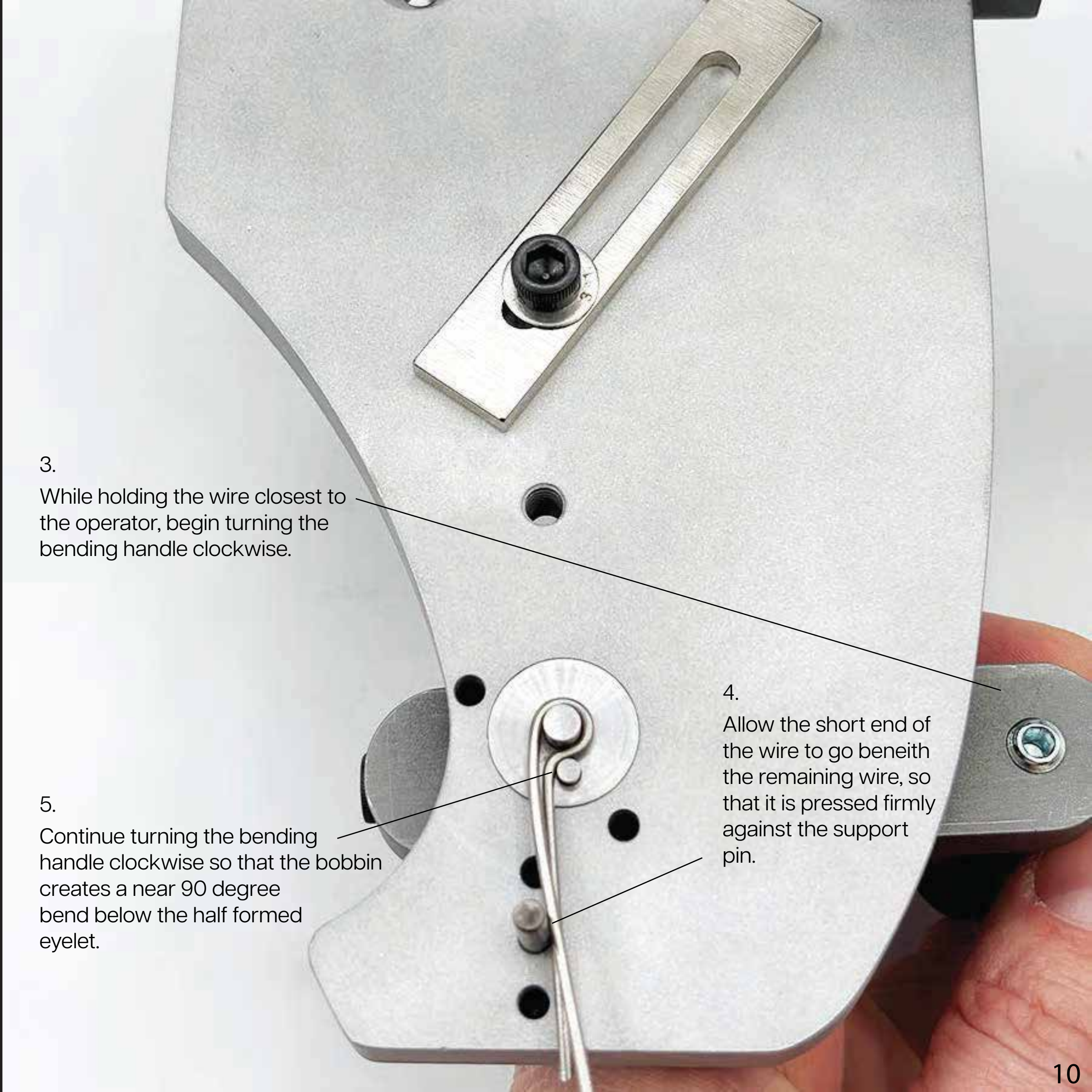




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1. Adjust wire stop to desired position. Loosen bolt, move stop, & tighten bolt.

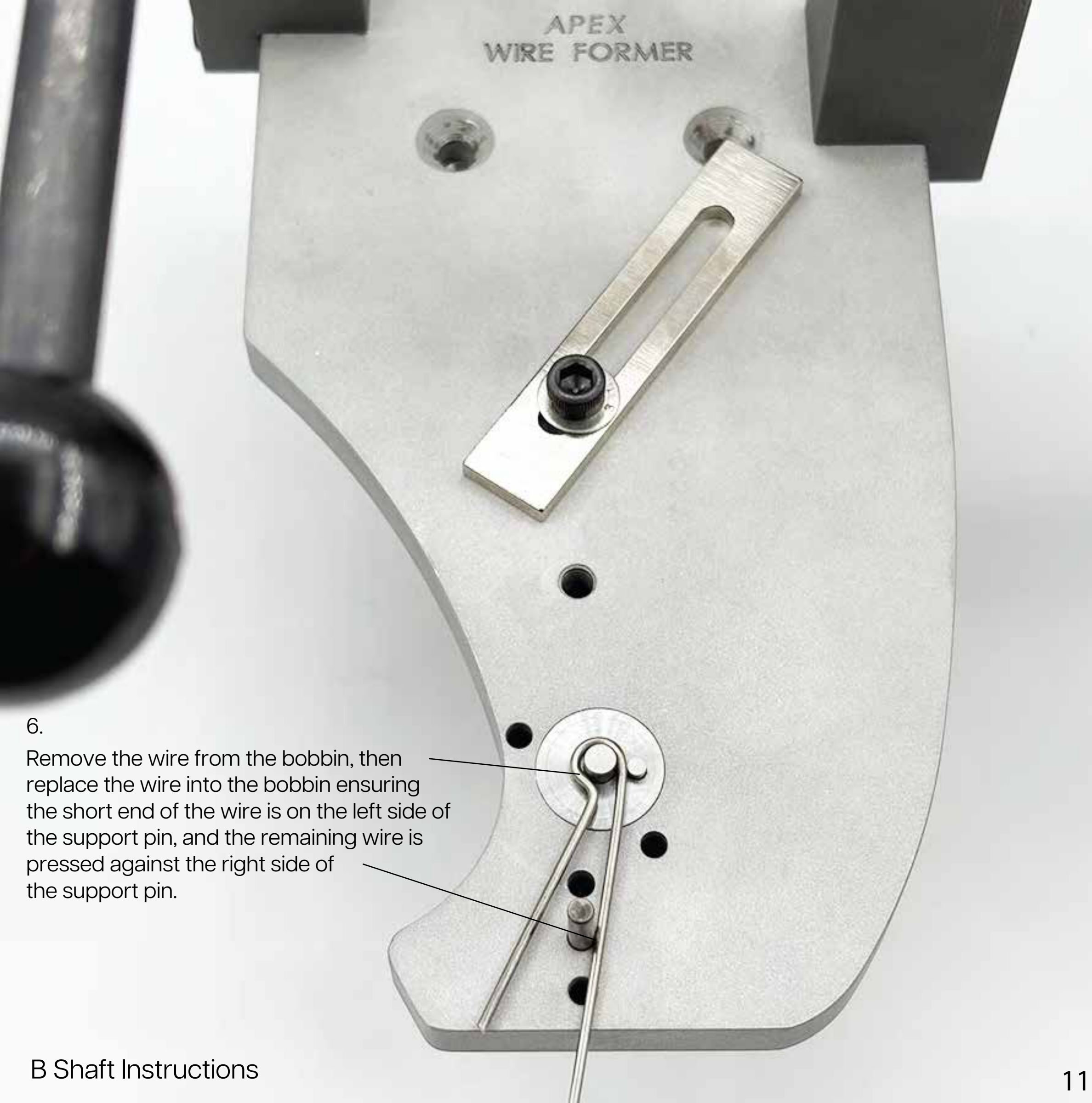
2. Insert wire through the pins on the face of the bobbin. Ensure the wire is resting on the inside of the support pin.



3. While holding the wire closest to the operator, begin turning the bending handle clockwise.

5. Continue turning the bending handle clockwise so that the bobbin creates a near 90 degree bend below the half formed eyelet.

4. Allow the short end of the wire to go beneath the remaining wire, so that it is pressed firmly against the support pin.



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6.
Remove the wire from the bobbin, then replace the wire into the bobbin ensuring the short end of the wire is on the left side of the support pin, and the remaining wire is pressed against the right side of the support pin.



7.
While holding the wire end closest to the operator, begin turning the bending handle clockwise until wire ends create the desired angle for your application. Overbend slightly to account for material spring back.

8.

Remove the fully formed B Shaft wire form from the bobbin.



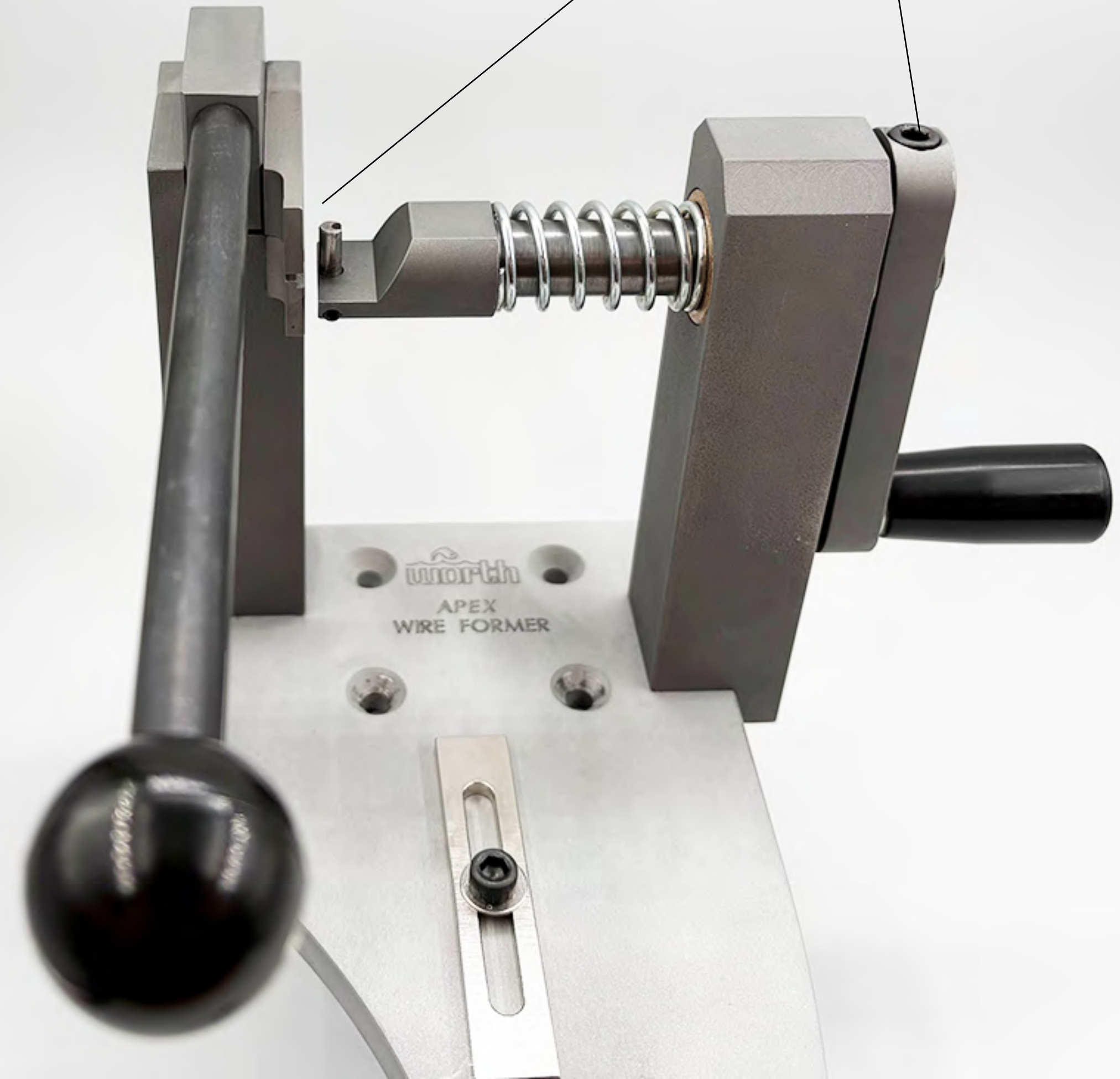
Wire Guide Bottom Tool

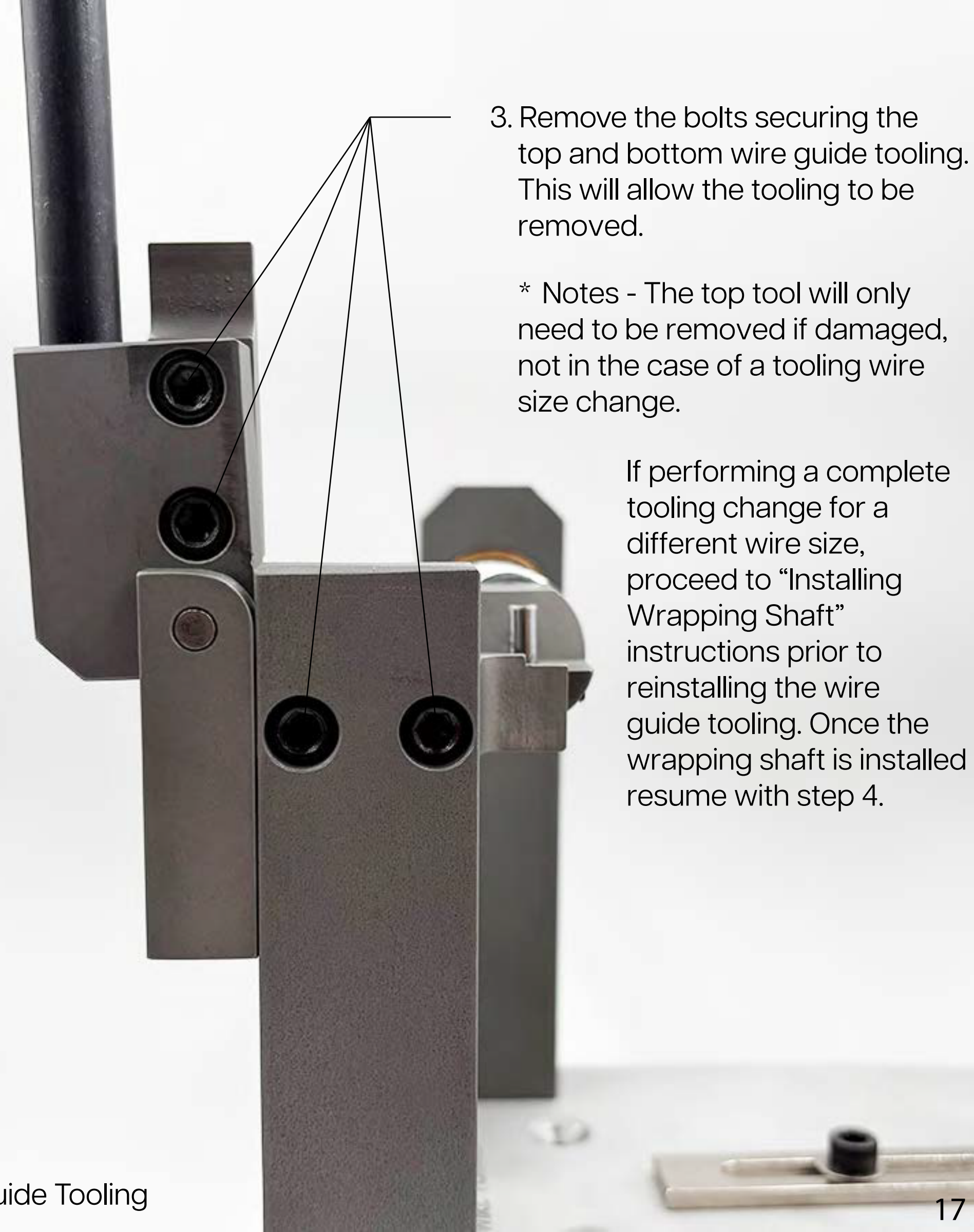
Wire Guide Top Tool



1. Loosen the bolt on the wrapping shaft handle.

2. Create a gap between the wire guide tooling and the wrapping shaft by sliding the wrapping shaft away from the tooling and tightening the wrapping shaft handle bolt.

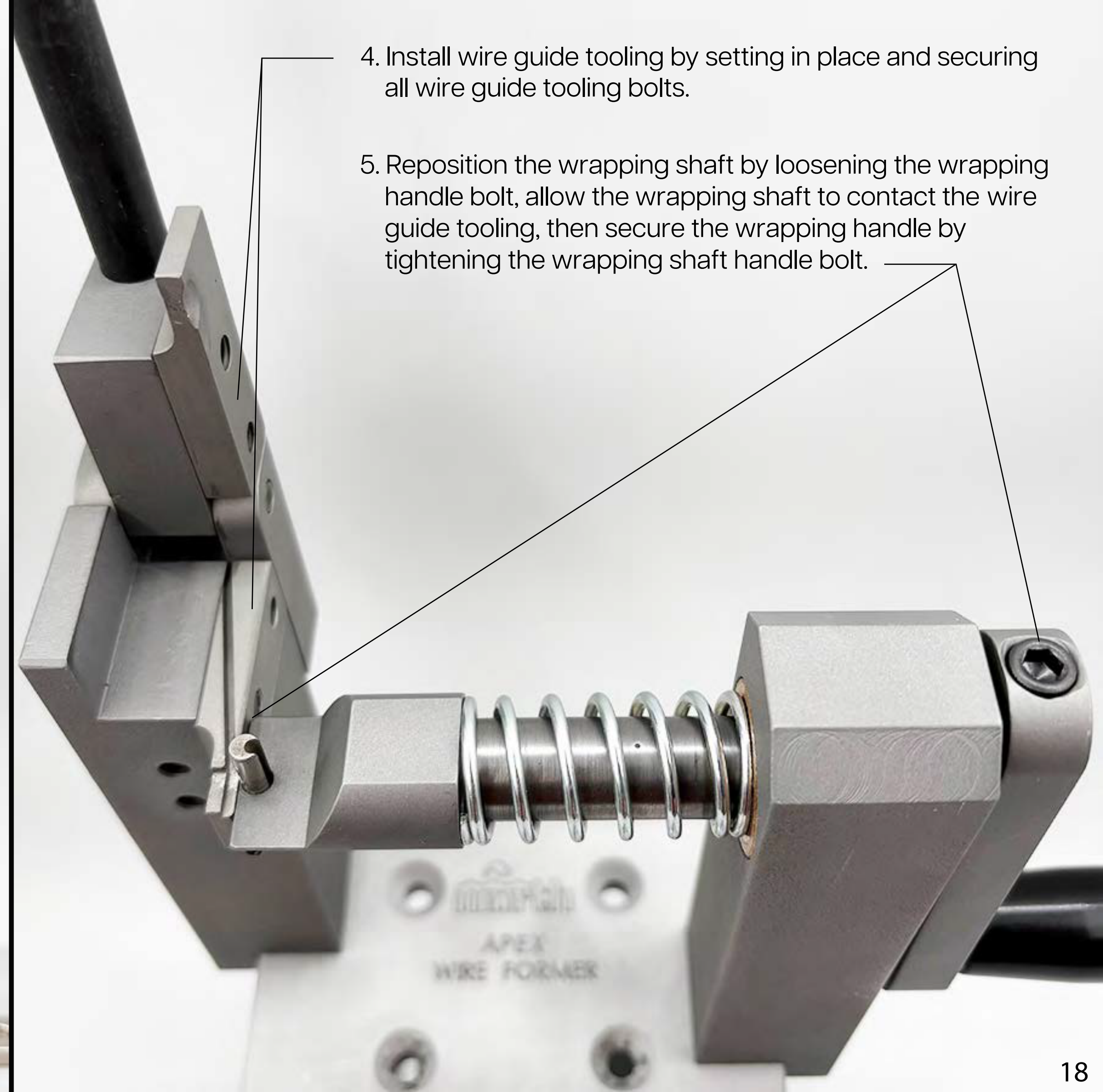




3. Remove the bolts securing the top and bottom wire guide tooling. This will allow the tooling to be removed.

* Notes - The top tool will only need to be removed if damaged, not in the case of a tooling wire size change.

If performing a complete tooling change for a different wire size, proceed to "Installing Wrapping Shaft" instructions prior to reinstalling the wire guide tooling. Once the wrapping shaft is installed resume with step 4.

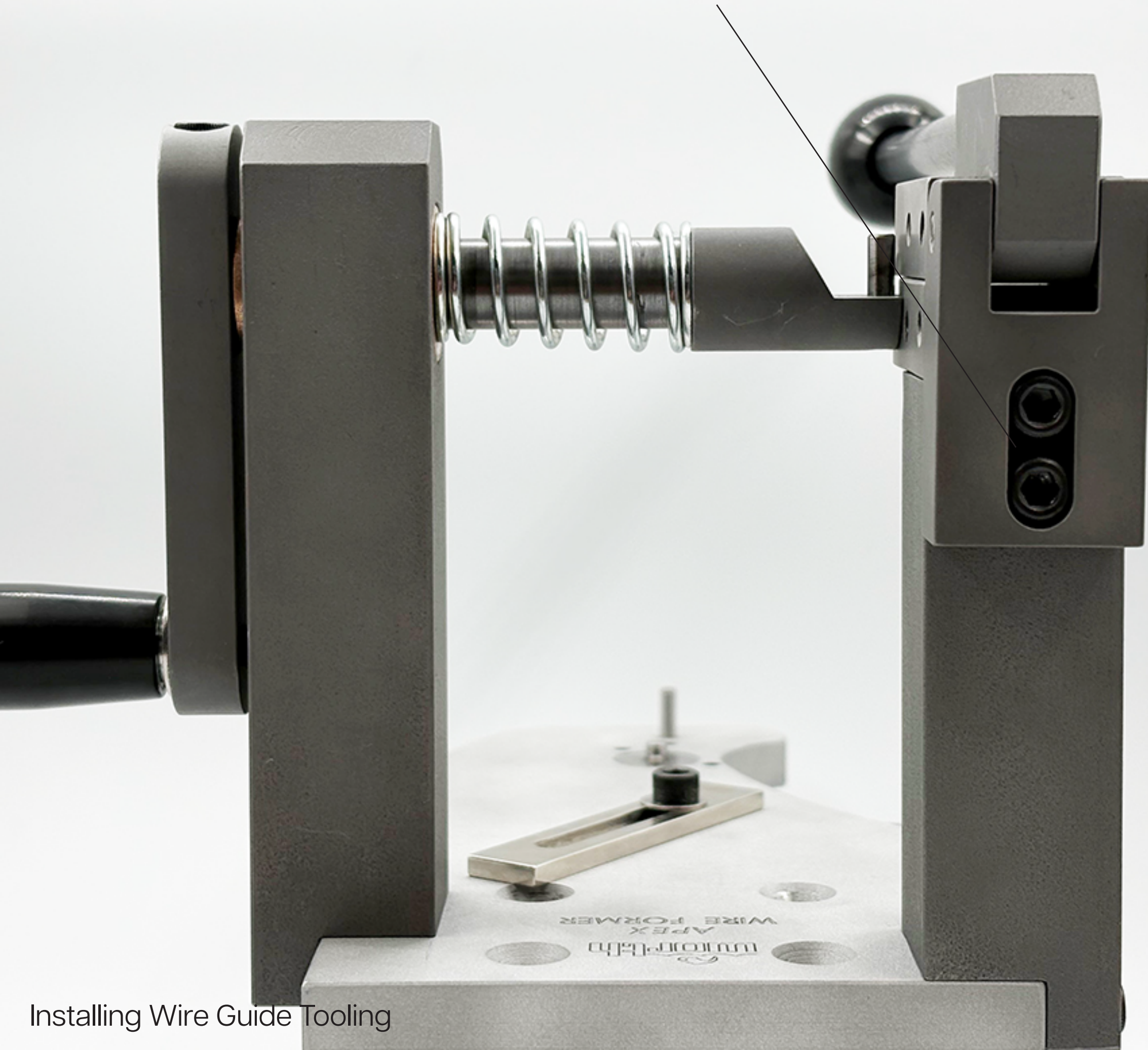


4. Install wire guide tooling by setting in place and securing all wire guide tooling bolts.

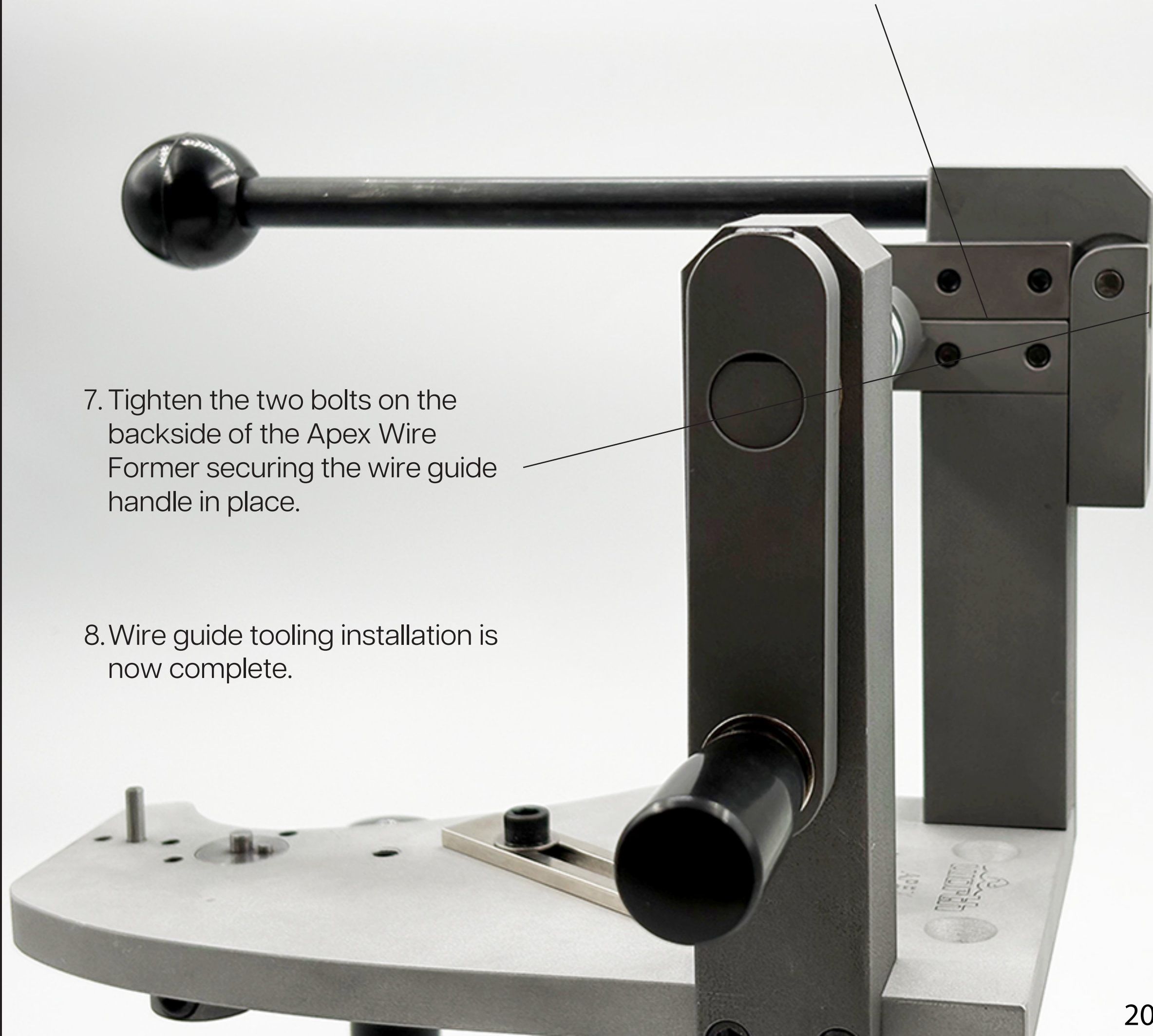
5. Reposition the wrapping shaft by loosening the wrapping handle bolt, allow the wrapping shaft to contact the wire guide tooling, then secure the wrapping handle by tightening the wrapping shaft handle bolt.

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6. On the backside of the Apex Wire Former, loosen the two bolts securing the wire guide handle to the wire former.

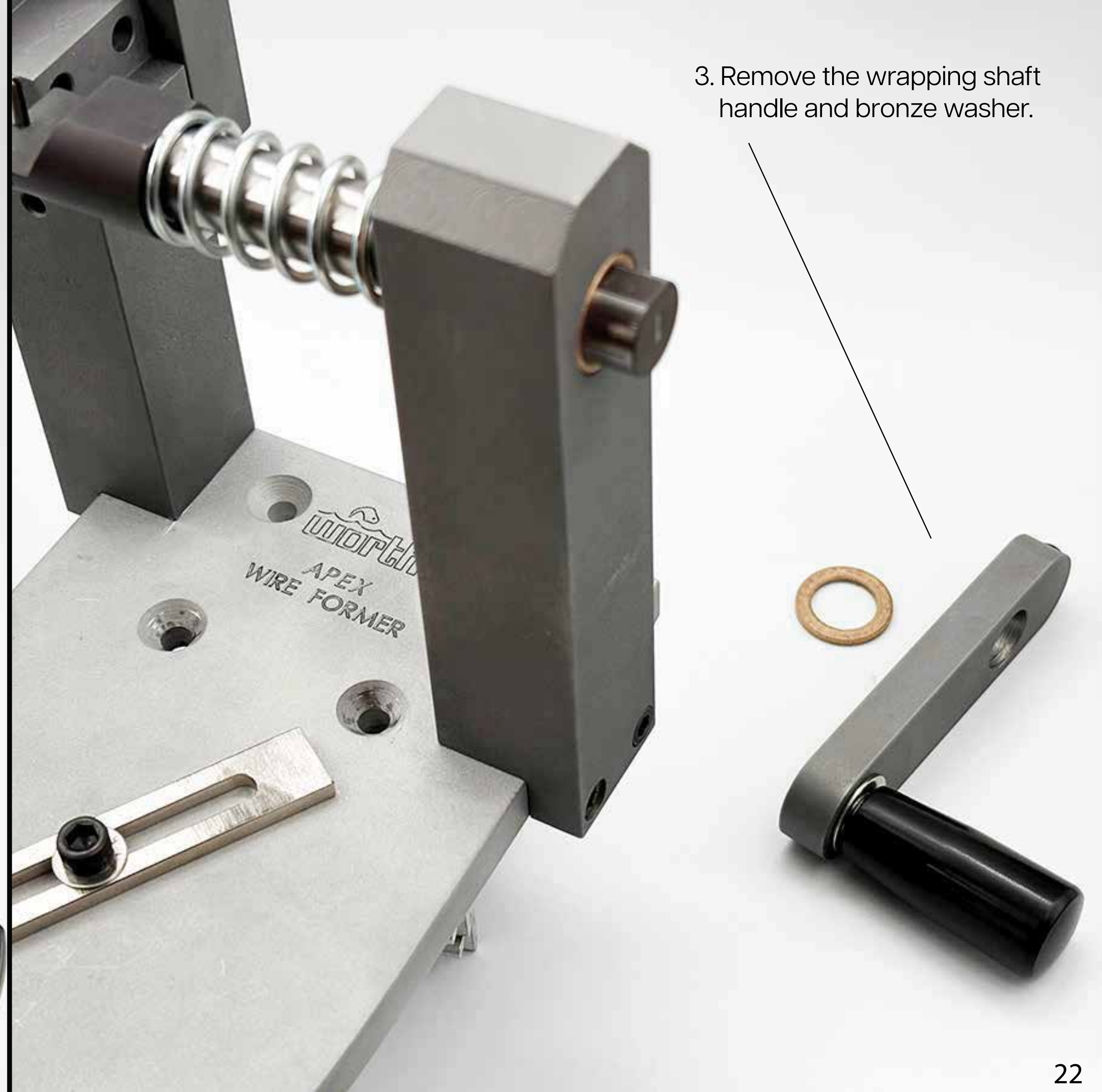
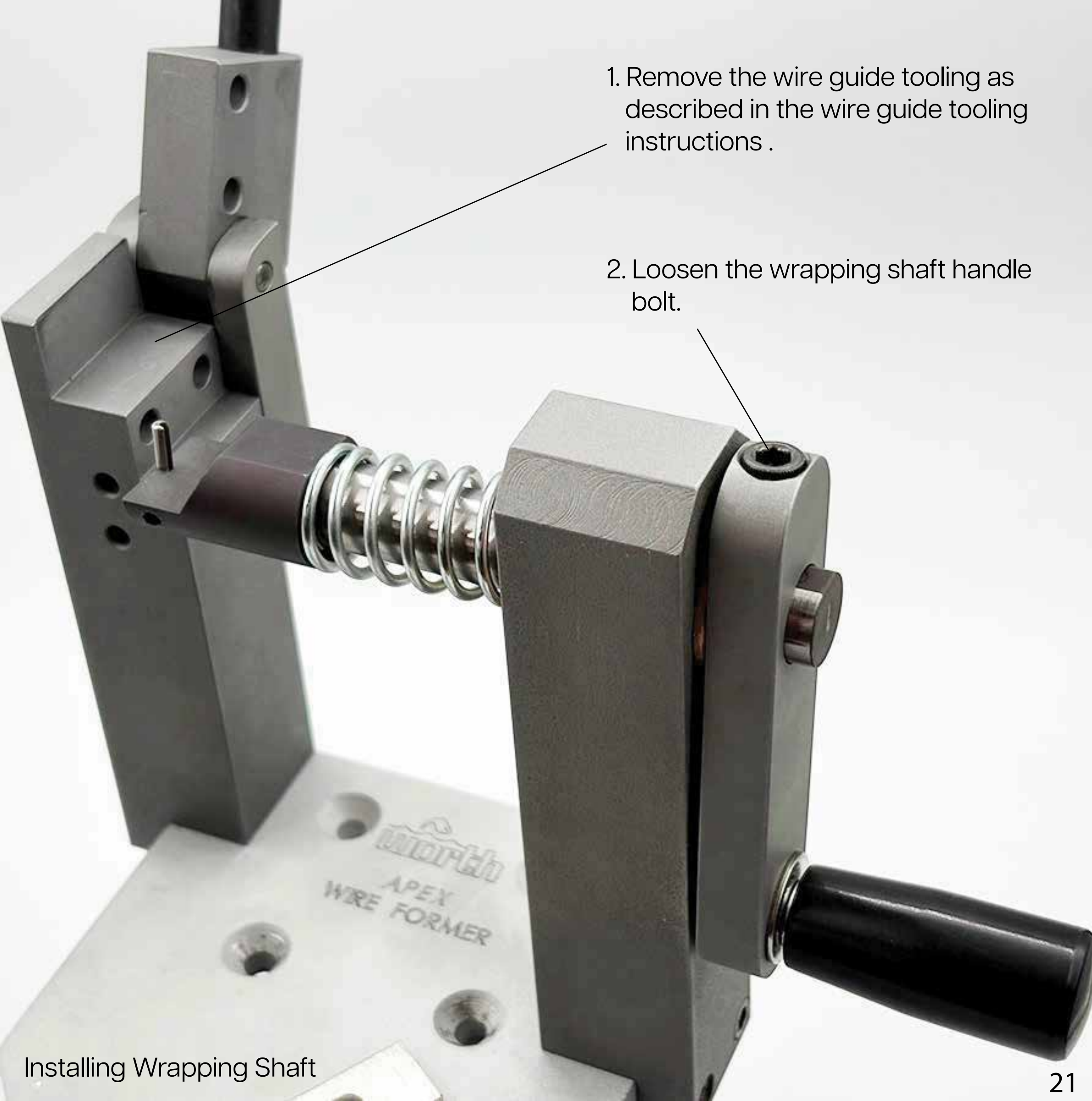


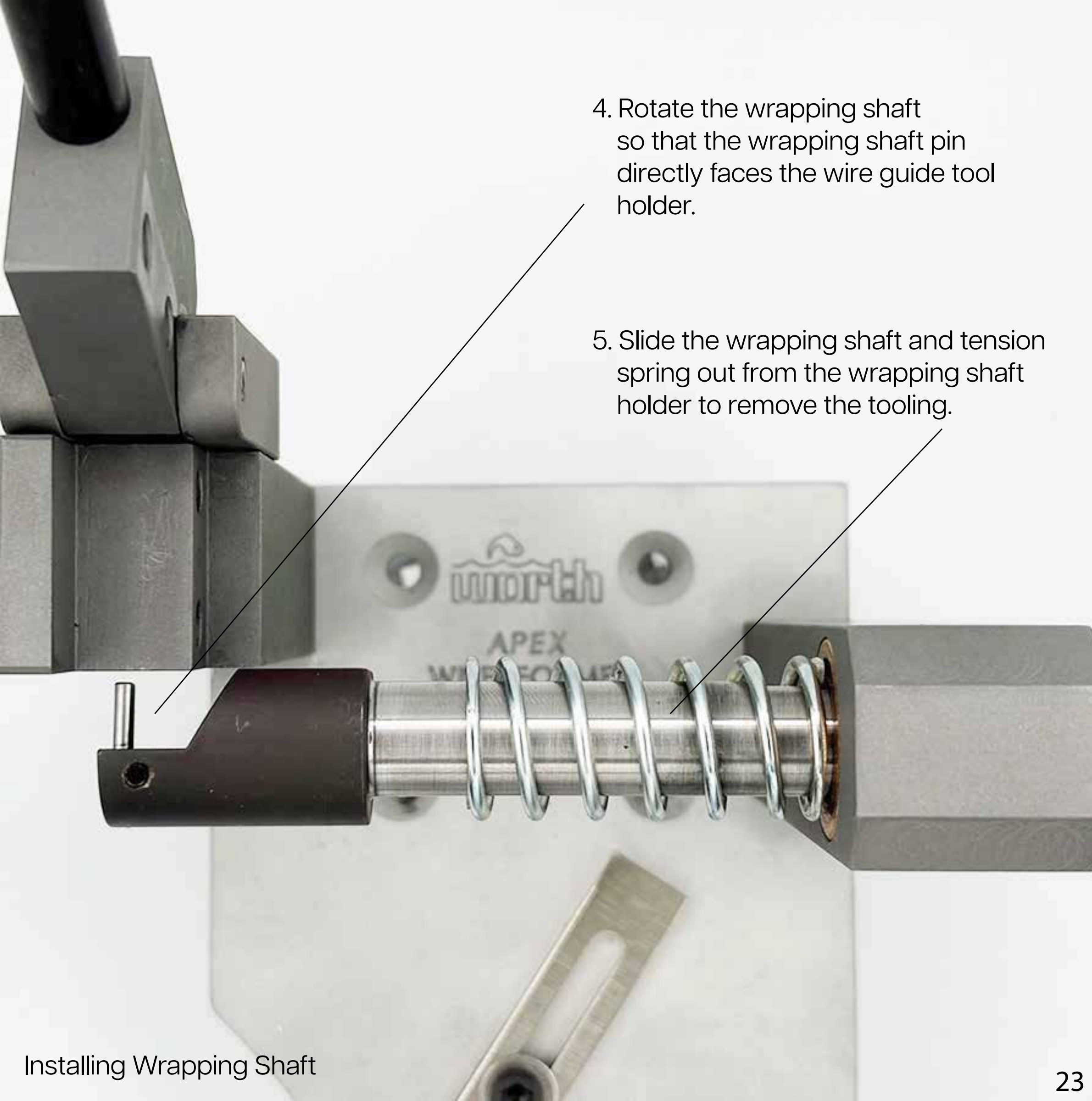
6. Ensure the top wire guide tooling rests evenly on top of the bottom wire guide tooling with no gap between the tooling.



7. Tighten the two bolts on the backside of the Apex Wire Former securing the wire guide handle in place.

8. Wire guide tooling installation is now complete.





4. Rotate the wrapping shaft so that the wrapping shaft pin directly faces the wire guide tool holder.

5. Slide the wrapping shaft and tension spring out from the wrapping shaft holder to remove the tooling.

Wrapping Shaft components

Wrapping Shaft

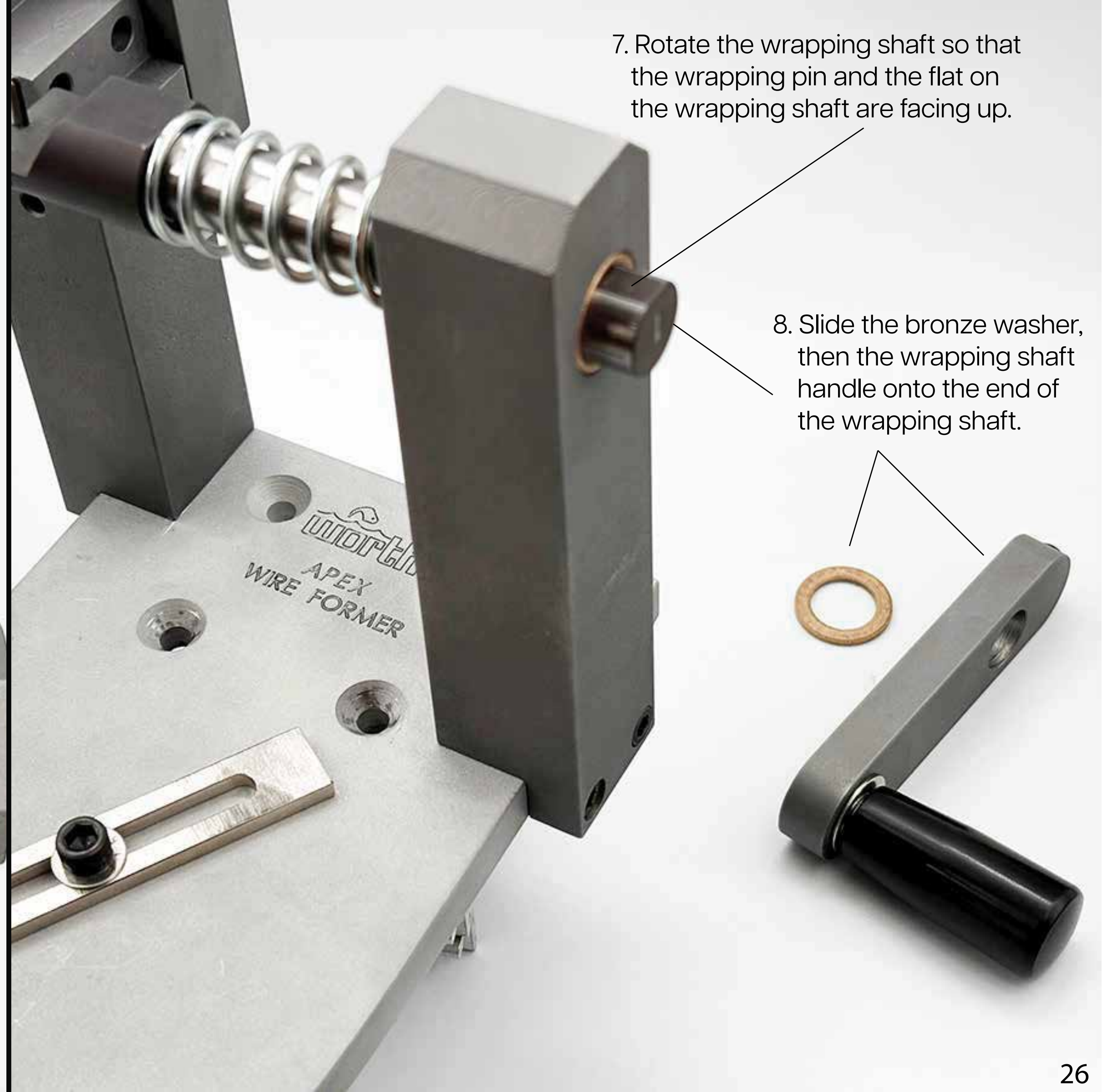
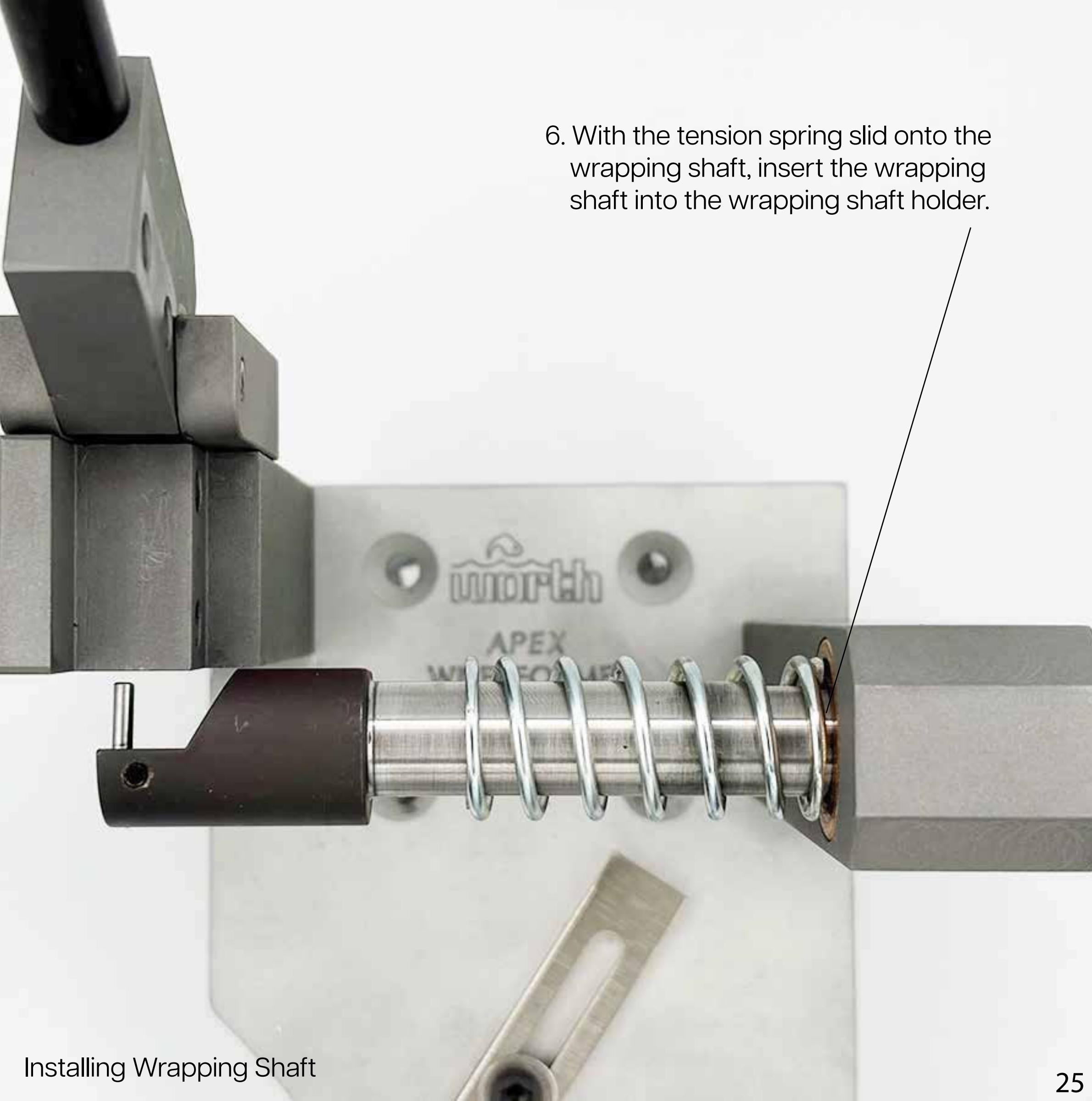
Tension Spring

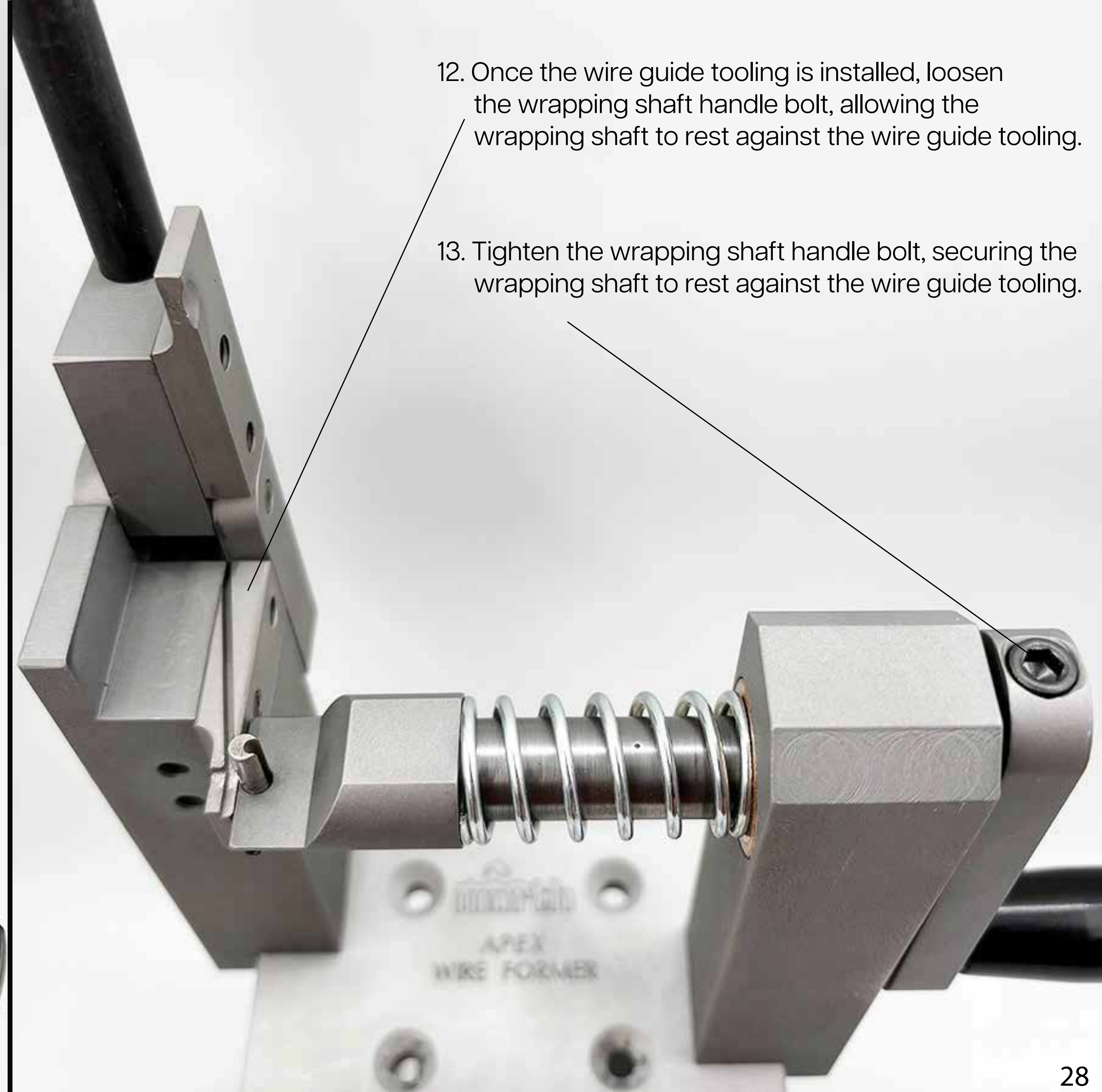
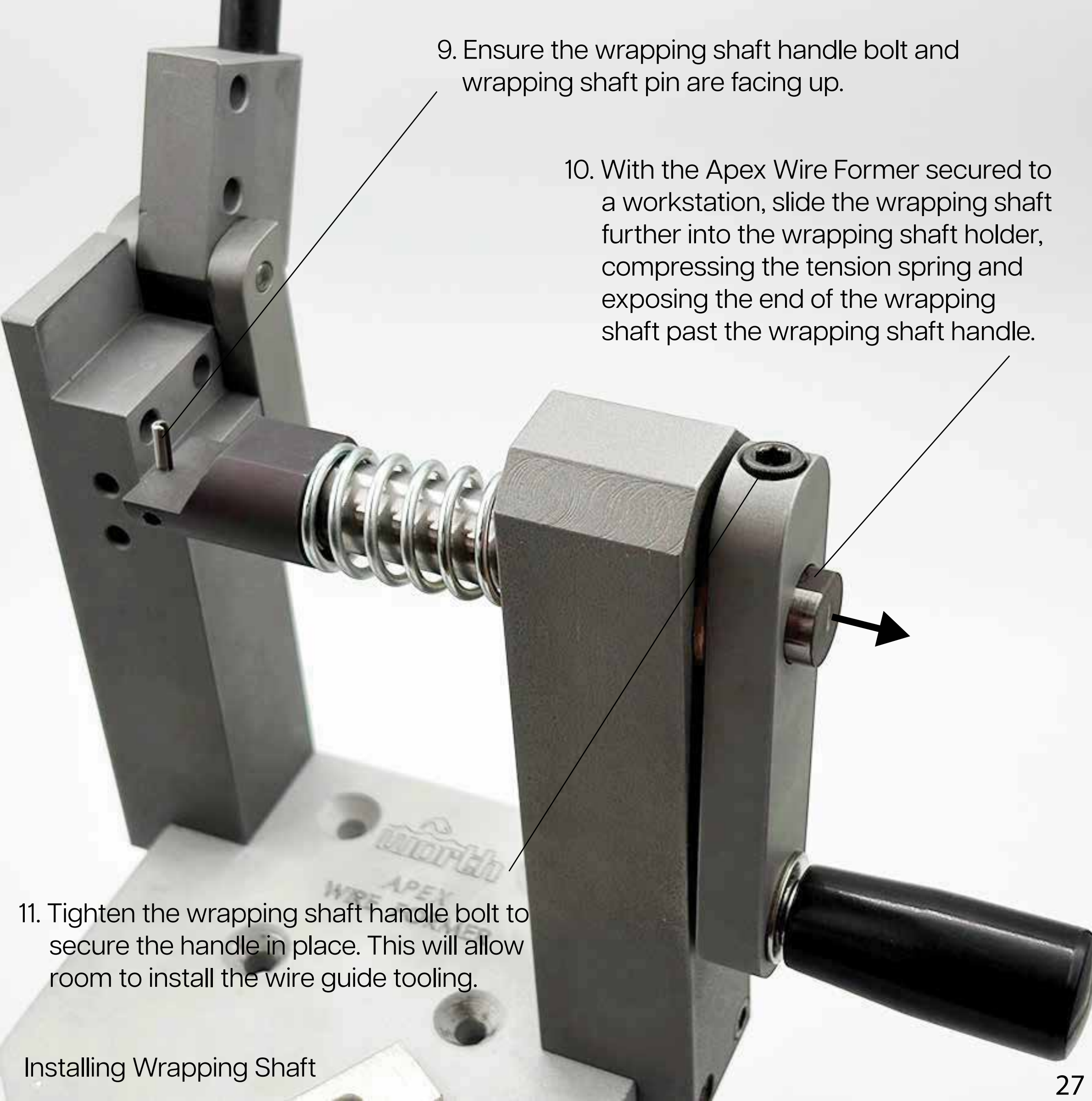
Wrapping Shaft Bolt

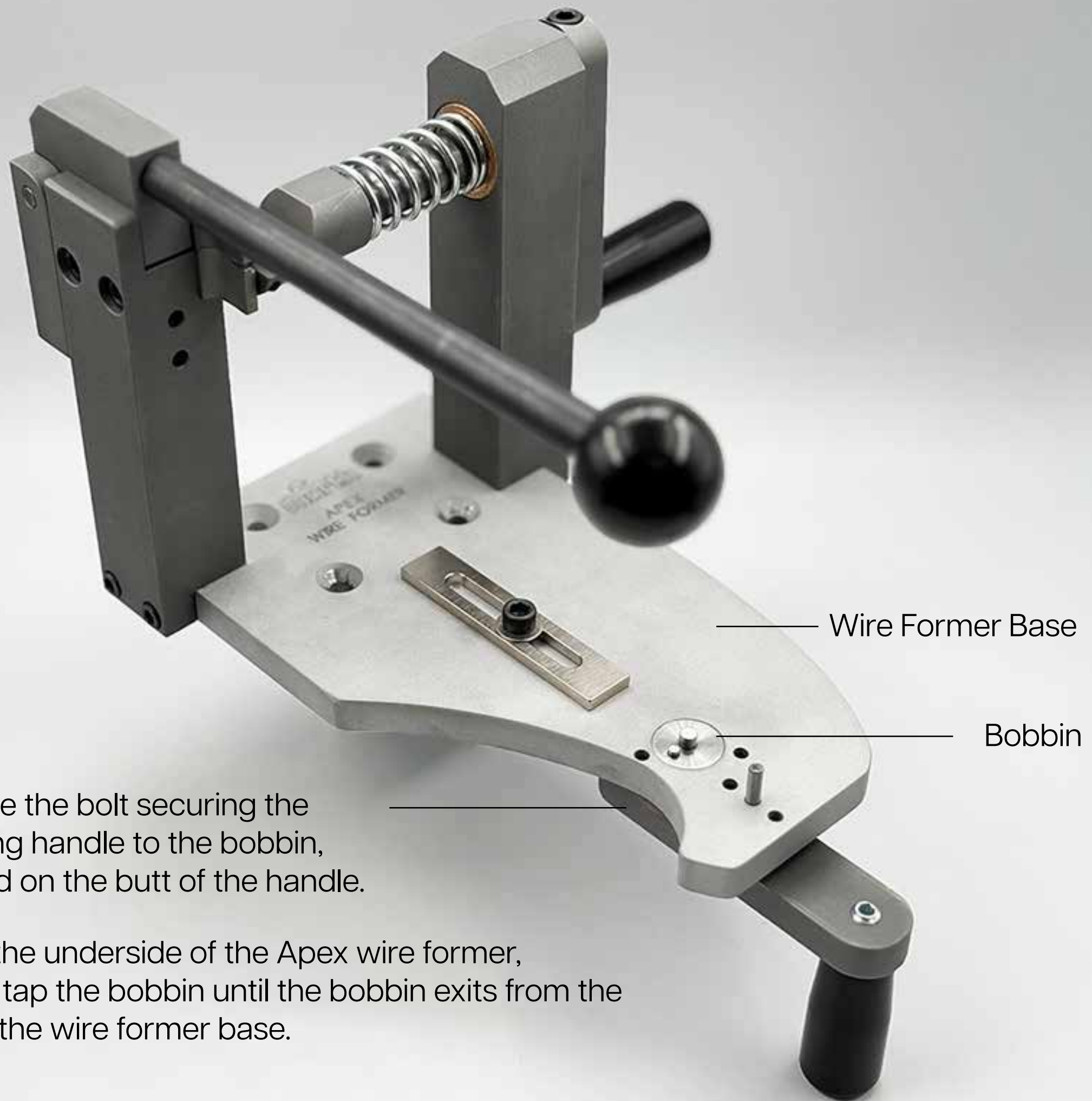
Bronze Washer

Wrapping Shaft Handle









1. Remove the bolt securing the bending handle to the bobbin, located on the butt of the handle.

2. From the underside of the Apex wire former, gently tap the bobbin until the bobbin exits from the top of the wire former base.

Wire Former Base

Bobbin



3. Reassemble the bobbin by placing the bobbin in the top side of the Apex wire former's bobbin opening, then gently tap the bobbin until it has passed entirely through the base and the bending handle opening. Ensure the flat of the bobbin is directly facing the bolt hole of the handle.

4. Verify the face of the bobbin is flush with the surface of the Wire former base, then tighten the bending handle bolt to secure the handle to the bobbin.

Bobbin Face

Bobbin Flat

Handle Opening

Bending Handle

Bolt Hole

Bolt