

# RETROGRADE DRILL

ACL Reconstruction

# RetroTech®

- ▶ All-in-one
- ▶ Reusable
- ▶ Ergonomic
- ▶ Fast & Accurate



## Adaptable to all motors

The RetroTech® tip can adapt easily to all motors

## Rounded Extendable Blade

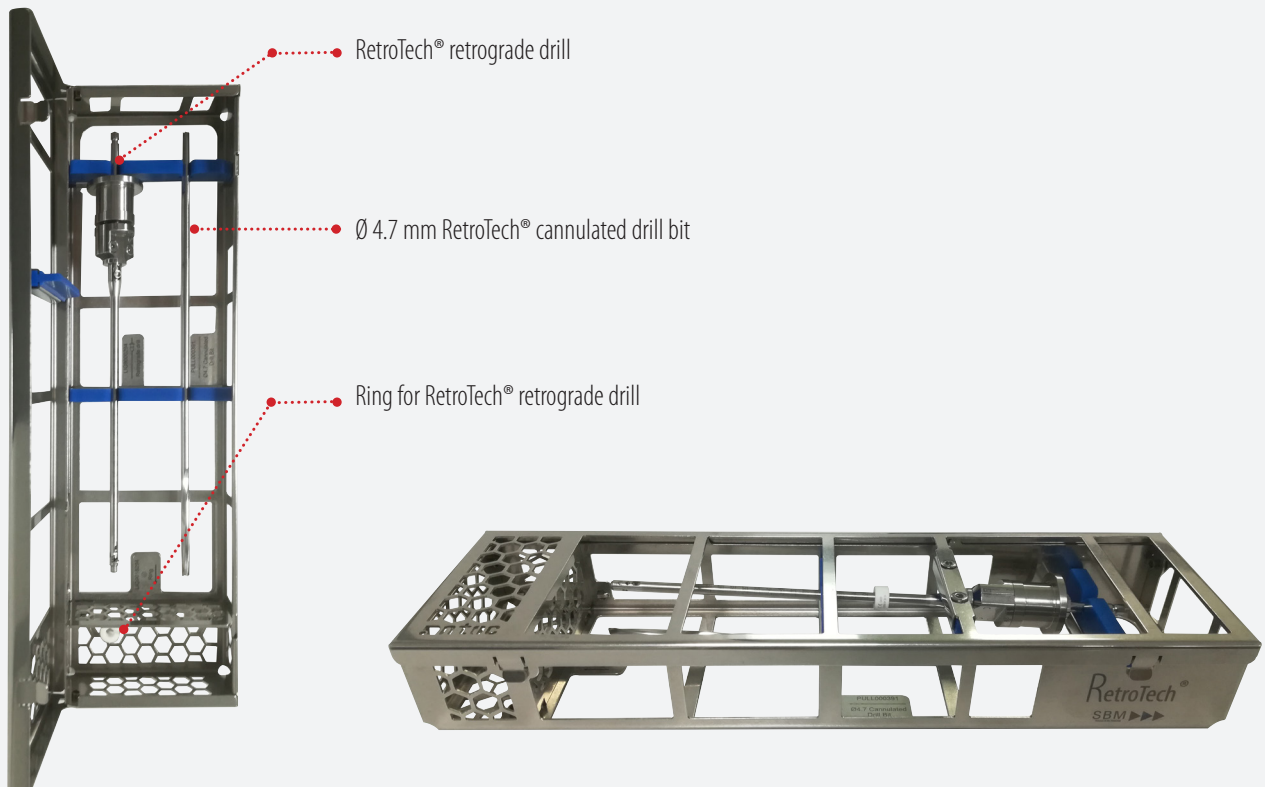
Creates a smooth surface, leaving no cutting marks in the tunnel.

Accurate drilling diameter of 6 mm to 11 mm with intermediate half-sizes.

## Adjustable knob

A drilling depth of 0 to 100 mm can be accurately set thanks to the white ring of the RetroTech®.

## Controlled Depth



# SURGICAL TECHNIQUE - TIBIA

## 1 INSERT THE PIN



Use the tibial guide to insert the pin.

## 2 DRILL THE FIRST TUNNEL



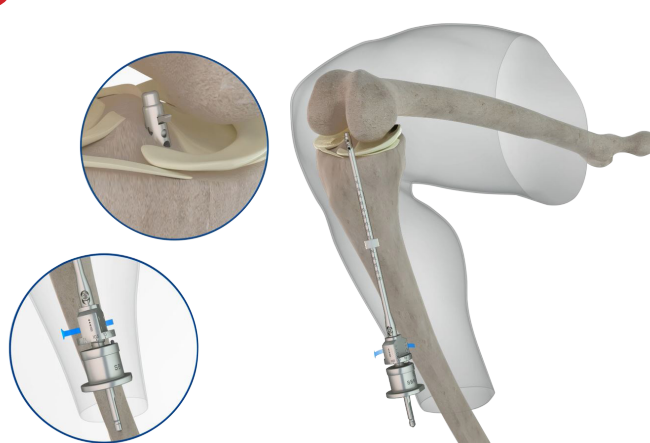
Drill a 4.7 mm diameter tunnel with the cannulated drill bit.

## 3 INSERT THE RETROTECH®



Make sure the retrograde drill is in the «0» position before inserting it into the 4.7 mm diameter tunnel.

## 4 OPEN THE BLADE

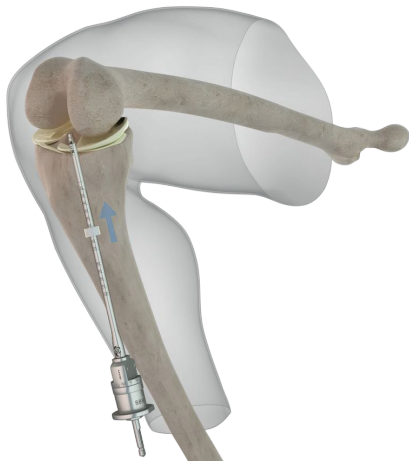


Turn the knob to select the desired diameter (from 6 to 11 mm, every 0.5 mm) and extend the drill blade.

## VIEW UNDER ATHROSCOPY



5



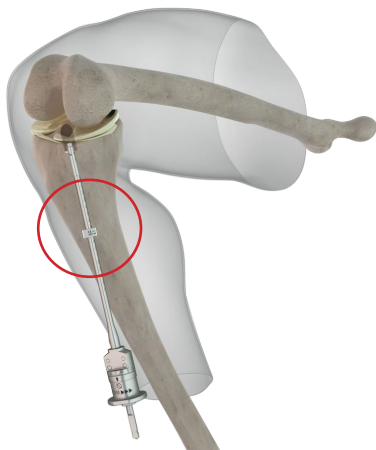
Place the white depth indicator against the skin.

6



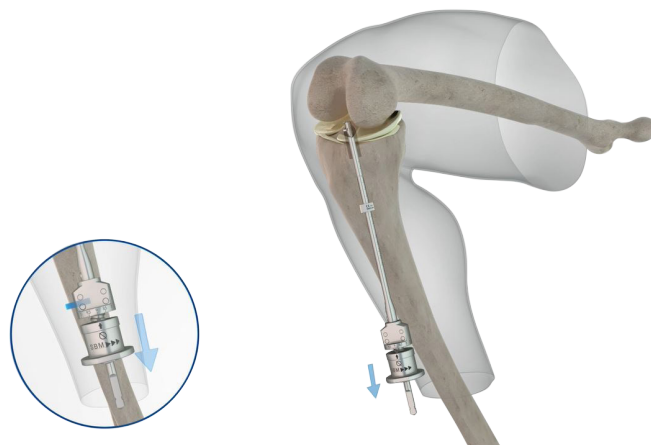
Connect the drill bit to a motor via the AO bit.  
**Drill clockwise.**

7



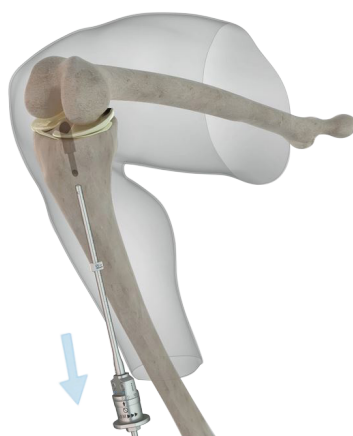
Use the depth gauge to check the depth of the blind tunnel, which corresponds to the distance between the white ring and the skin.

8



Reposition the knob in the «0» position to close the drill blade.

9



**Remove the Retrotech® retrograde drill.**

# SURGICAL TECHNIQUE - FEMUR

## 1 INSERT THE PIN



Use the femoral guide to insert the pin.

## 2 DRILL THE FIRST TUNNEL



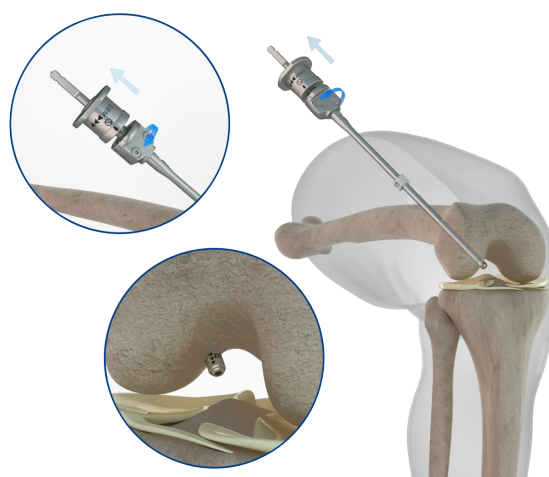
Drill a 4.7 mm diameter tunnel with the cannulated drill bit.

## 3 INSERT THE RETROTECH®



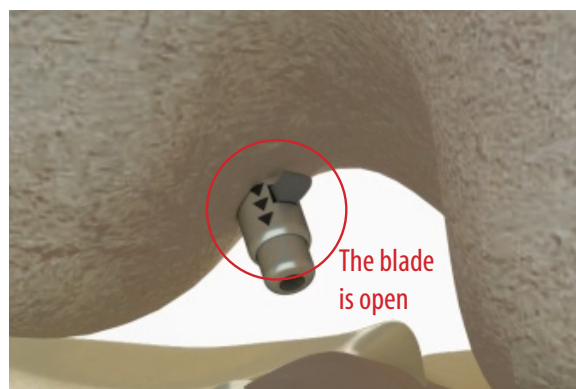
Make sure the retrograde drill is in the «0» position before inserting it into the 4.7 mm diameter tunnel.

## 4 OPEN THE BLADE



Turn the knob to select the desired diameter (from 6 to 11 mm, every 0.5 mm) and extend the drill blade.

## VIEW UNDER ATHROSCOPY

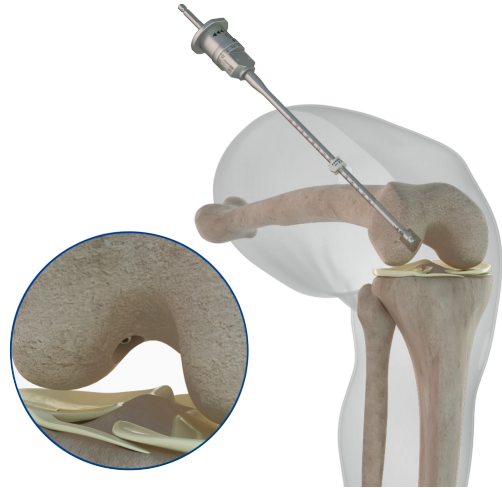


5



Place the white depth indicator against the skin.

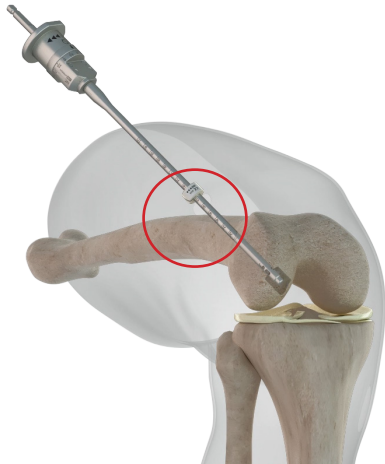
6



Connect the drill bit to a motor via the A0 bit.

**Drill clockwise.**

7



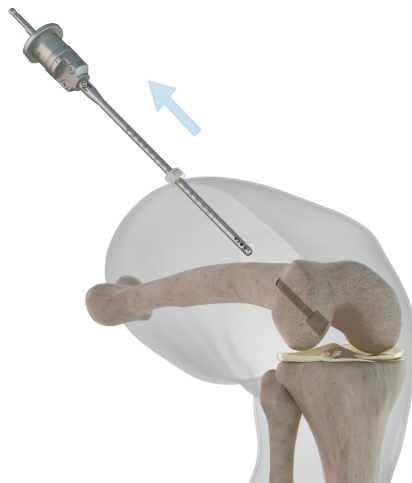
Use the depth gauge to check the depth of the blind tunnel, which corresponds to the distance between the white ring and the skin.

8



Reposition the knob in the «0» position to close the drill blade.

9



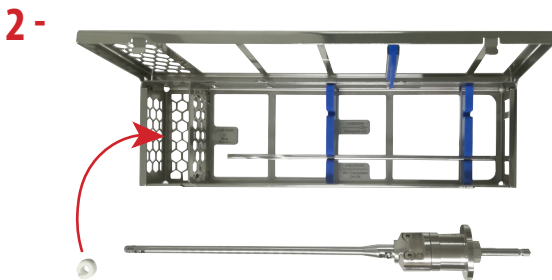
**Remove the Retrotech® retrograde drill.**



The drill bit is not removable.  
Do not loosen the screws.

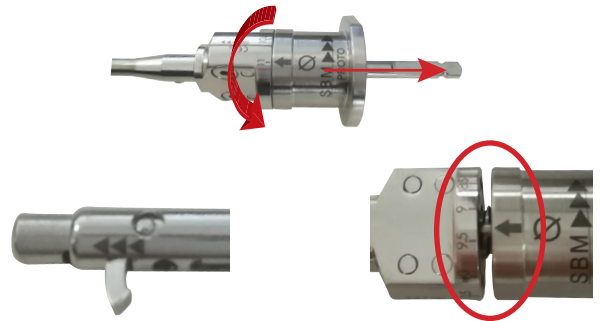


### 1 REMOVE THE RING



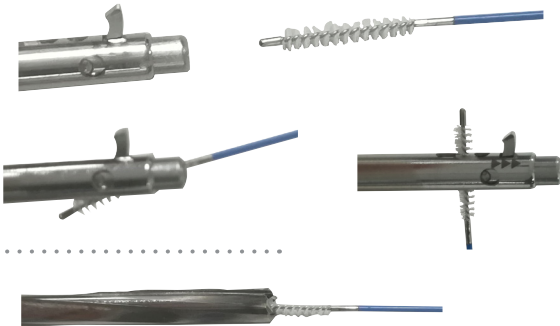
- 1 - Check that the blade is in the **closed position**. Slide the white ring along the drill to remove it.
- 2 - Place the ring in the designated location.

### 2 OPEN THE BLADE



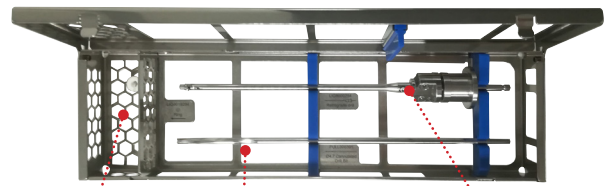
- Pull the plunger and turn the graduated knob between 9 and 9.5 to remove the blade and leave a gap between the knob and the plunger.

### 3 MANUAL CLEANING



- Insert a cleaning brush through the holes at the extremity of the drill to remove as much bone debris as possible. Insert the brush also through the Ø 4.7 mm drill bit.

### 4 STORAGE IN THE BASKET



RING CANNULATED DRILL BIT RETROTECH® RETROGRADE DRILL

- Place the instruments in the corresponding locations. Close the lid.

**RISK OF INJURY:** Users should beware of open blade during cleaning and sterilization.

### 5 HOSPITAL CLEANING AND STERILIZATION IN THE DEDICATED BASKET

- Follow the instructions in the instrument leaflet. Clean the drill with an open blade in the dedicated basket. Do not mix with other instruments.



**BEFORE USE,** check the presence of the three screws



## REFERENCES

### RETROGRADE DRILL

Reference	Designation	In the basket
LIG9000294	RetroTech® retrograde drill	1
PULL000391	RetroTech® Ø 4.7 mm cannulated drill bit	1
2002191 (Europe only)	RetroTech® stainless steel basket with silicones including lid	

### RETROGRADE DRILL SPARE PART

Reference	Designation
LIG9018294	Ring for RetroTech® retrograde drill



#### About S.B.M.

S.B.M. (Science & Bio Materials) has been specialized in the design, manufacture and distribution of biomaterials for bone reconstruction since 1991. Our priority is the development and optimization of medical devices that promote both bone healing and human tissue replacement. Thanks to a total mastery of its manufacturing techniques, the company develops complete systems based on 100% synthetic and absorbable materials, combined with adapted instrumentation.

#### S.B.M.'s environmental commitment

Driven by a deep desire to preserve the planet, S.B.M. has placed the development of an economy respectful of the environment at the heart of his concerns. The three pillars of its approach are:

- An ISO 14001: 2015 certified environmental management system deployed throughout the company and its partners•
- Reducing the environmental impacts of its activities
  - Reducing its CO2 emissions by 30% by 2030 (Paris Agreements COP 21)
  - Control of its energy consumption (Photovoltaic production of 15% of its electricity)
  - Control of its wastes and rejections
- Willingness to develop its economic activities in accordance with the principles of sustainable development



Carefully read the instructions on the package leaflet that accompanies the medical device or on the label given to the healthcare provider. Device included in the list of extra refundable products; for more information refer to the price lists. Class IIb device. Non-contractual document - May be modified without prior notice. All rights reserved© 2012. Manufacturer: S.B.M.

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### RETROTECH® RETROGRADE DRILL

Surgical Technique

