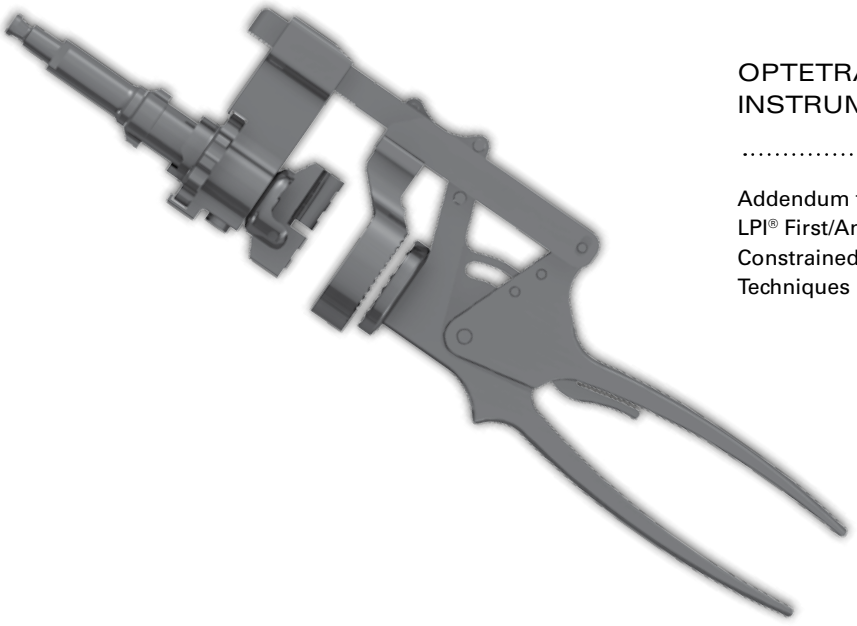
OPTETRAK LOGIC®

Operative Technique



OPTETRAK® LPI® PATELLA INSTRUMENTATION

Addendum to the Optetrak CR/PS, LPI® First/Anterior Rough Cut and Constrained Condylar Operative Techniques

Exactech®

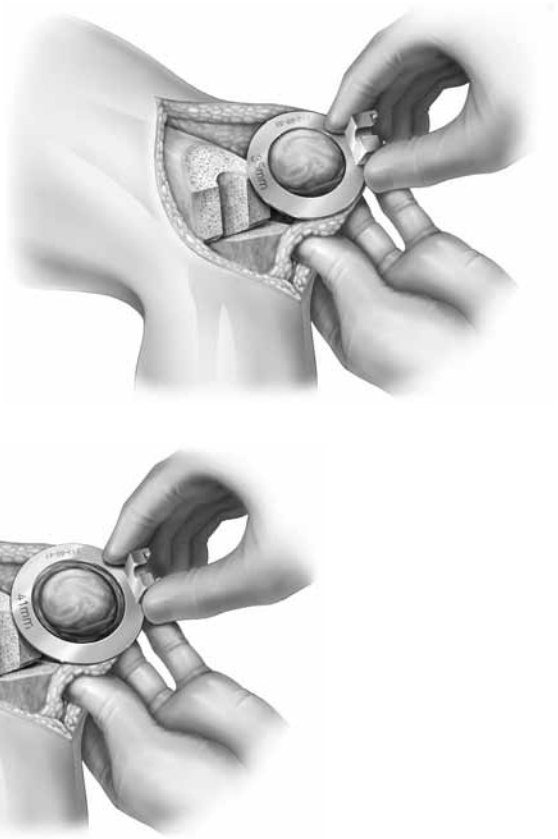
INTRODUCTION

Optetrak® Patella Instrumentation provides surgeons with solutions to resurface the patella. This operative technique addendum provides detailed instructions for three different approaches using the following instruments: Axial Patella Saw Guide, Patella Reamer and Inset Patella Reamer. For detailed instructions on the free-hand technique, refer to the Optetrak Logic® CR/PS LPI® Operative Technique.

AXIAL PATELLA SAW GUIDE

Prior to the device assembly, use the **Axial Patella Saw Guide Rings** to appropriately size the patella. If the patella fits through a ring tightly *(Figure 1a),* you may find better results going up a ring size *(Figure 1b).*

Depress the trigger on the Axial Patella Saw Guide Prep Handle to open the lever *(Figure 2).*



Figures 1a and 1b
Size the Patella with Axial Patella Saw Guide Rings

Figure 2
Depress Prep Handle Trigger

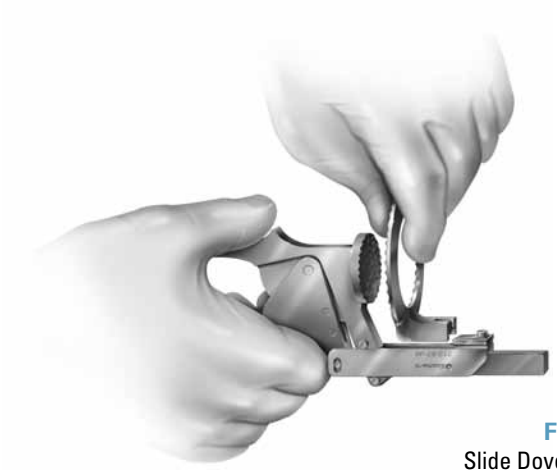


Figure 3
Slide Dovetail of Ring onto Mating Part of Handle

Assemble the ring onto the handle sliding the dovetail of the Axial Patella Saw Guide Ring onto the mating dovetail of the Axial Patella Saw Guide Handle *(Figure 3)* ***Note:*** *It is easiest to assemble the ring with the thumb and index finger placed as shown (Figure 4).*

The ring easily slides into place with a pinching motion of the fingers. Position the handle over the patella and squeeze until the patella feels secure *(Figure 5).* ***Note:*** *The patella bone must protrude above the metal ring.*

Figure 4
Assemble with Hand Placement as Shown

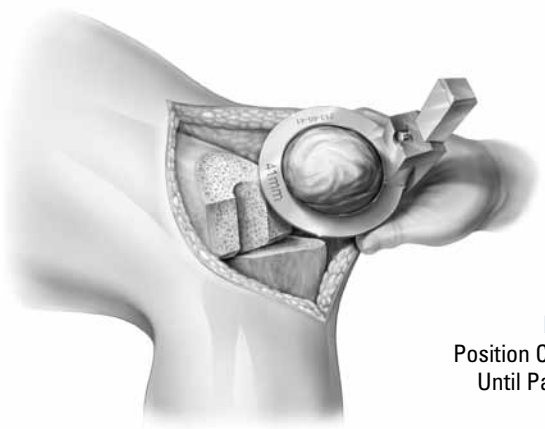


Figure 5
Position Clamp and Squeeze Until Patella is Secured

Press the button on the Axial Patella Saw Guide to assemble onto the handle *(Figure 6).*

Slide the Axial Patella Saw Guide down until the housing contacts the patella bone *(Figure 7).* If the resection slot touches the ring, this means there is a gap between the bottom of the resection guide and the patella. The user must squeeze the handle to force more patella bone above the metal ring.

Caution: *Failure to do this could result in a misread on patella thickness.*

Once the resection guide is in place and touching patella bone, the thickness of the patella can be read on the backside of the handle. *(Figure 8)*

Caution: *Do not move the resection guide up or down after this point. If more bone needs exposure above the ring, this is done by squeezing the handle more.*

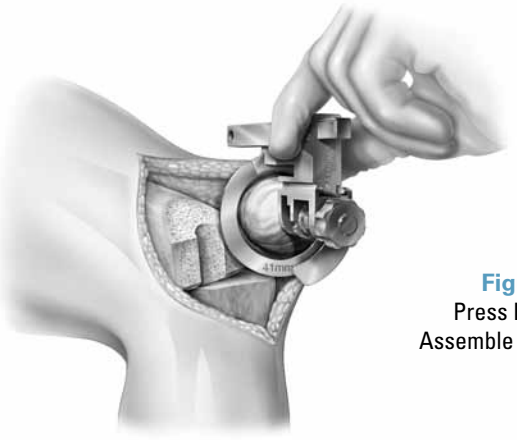


Figure 6
Press Button to
Assemble onto Handle

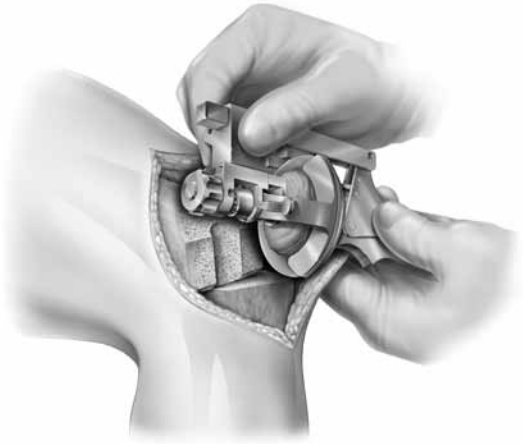


Figure 7
Slide Guide Down Shaft

Figure 8
Read Patella Thickness
on Backside of Handle

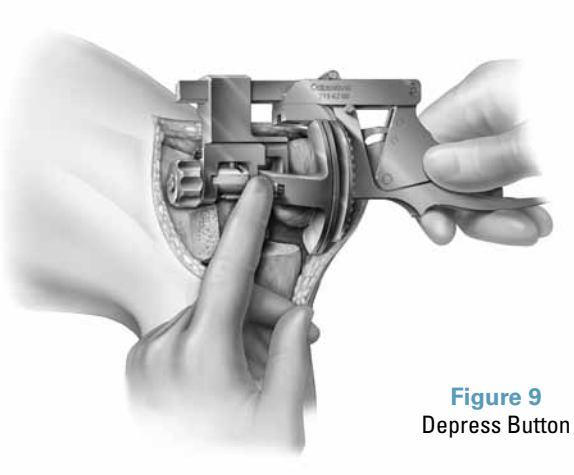


Figure 9
Depress Button

Depress the lever on the Axial Patella Saw Guide and rotate the cutting guide slot until the resection can be performed medial to lateral *(Figure 9)*. Adjust the amount of bone resection using the knob *(Figure 10).* The amount of bone resection in millimeters is displayed in the indicated viewing window.

At this point, the resection can be performed *(Figure 11).* If needed, adjust the resection depth and re-cut. Do not move the resection guide up or down or the user will lose their resection depth reference point. If more bone exposure is needed, squeeze the handle to push more patella through the ring. If exposure is adequate and more resection is needed, readjust the resection depth using the knob and then redo the resection.

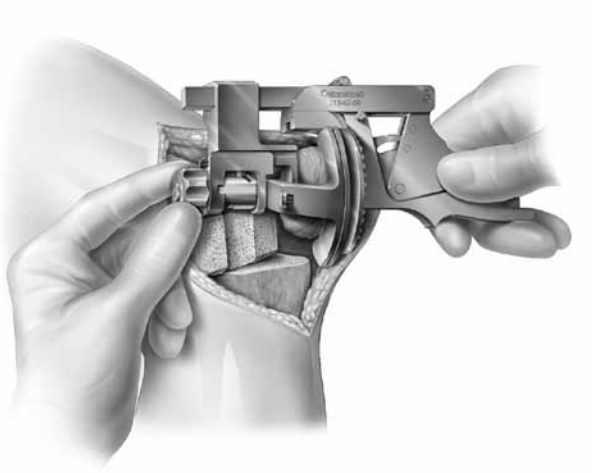


Figure 10
Adjust the Bone Resection Amount with Knob

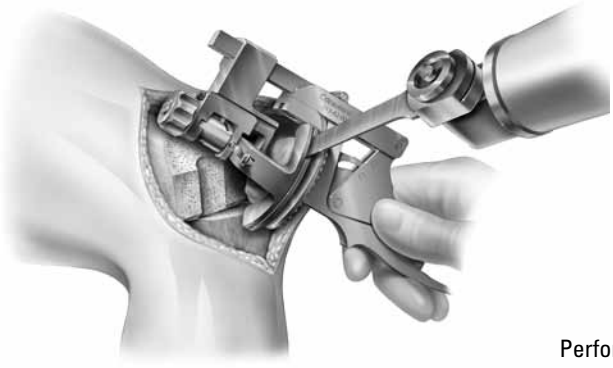
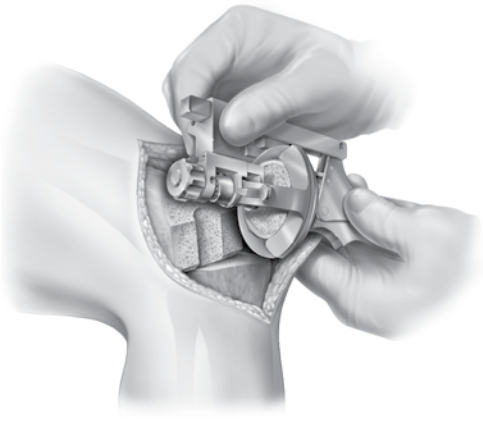


Figure 11
Perform the Resection



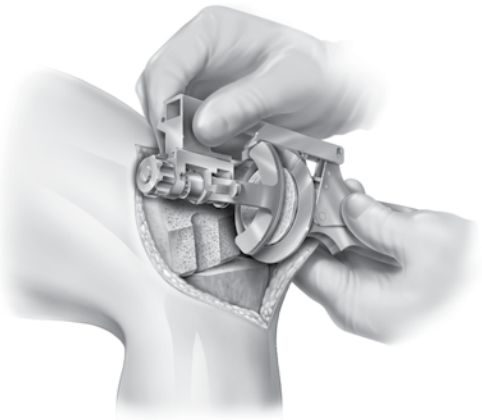
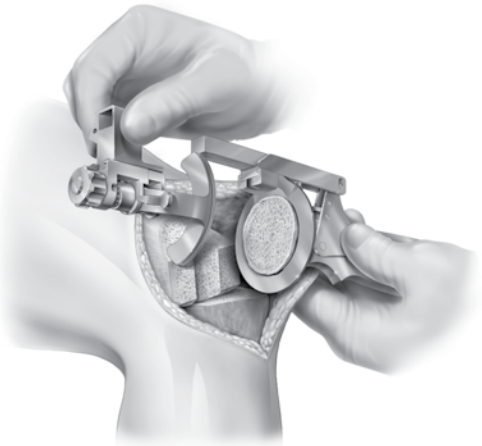


Figure 12
Remove the Resection Guide



Press the button on the Axial Patella Saw Guide and slide the resection guide off of the handle *(Figure 12)*.

Once the guide has been removed, press the trigger on the handle for the full release from the patella bone *(Figure 13)*.

To remove the ring from the prep handle, place the pointer finger and middle finger on opposite sides of the ring as shown *(Figure 14)*. Brace on the thumb against the patella platform and the other thumb against the handle and "walk" the ring off the handle by alternating force between the middle and index finger.

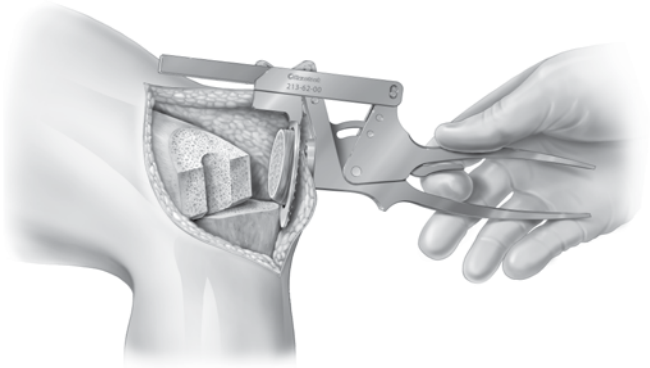


Figure 13
Press the Handle Trigger to Release Patella

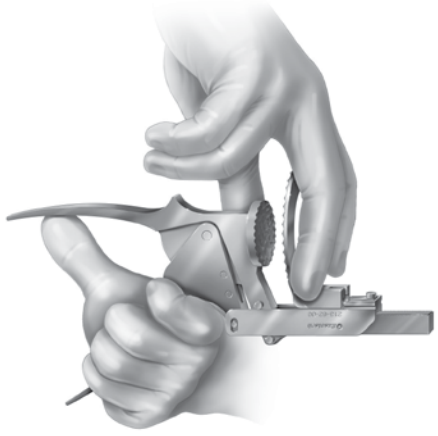


Figure 14
Place Fingers as Shown and Remove Ring

PATELLA REAMER INSTRUMENT

Prior to the device assembly, use the Axial Patella Reamer Rings to size the patella *(Figure 15)*.

Select the **Axial Patella Reamer Ring** that covers the full circumference of the patella and contacts the surrounding tissue. ***Note:*** *The ring size should fit the patella and does not necessarily correlate to the patella implant size.*

Depress the trigger on the **Axial Patella Prep Handle** to open the lever *(Figure 16)*.

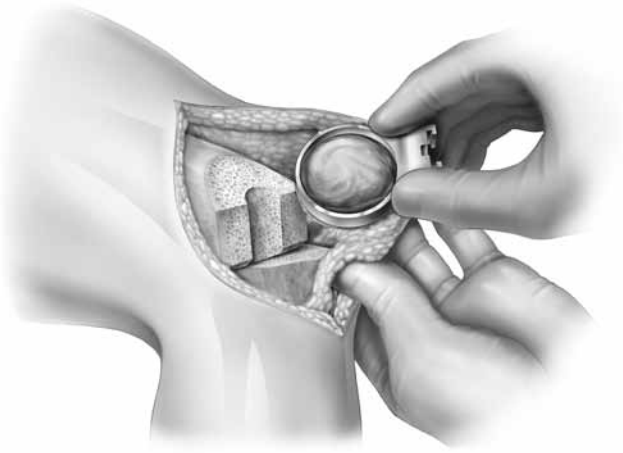


Figure 15
Size the Patella with Axial Patella Reamer Rings

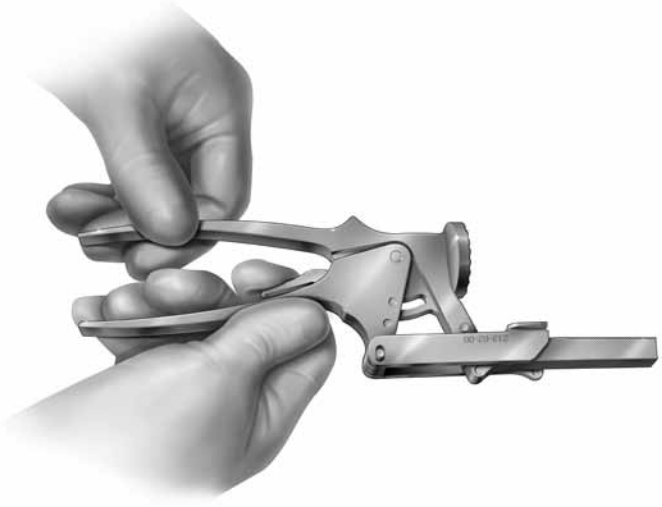


Figure 16
Depress Prep Handle Trigger

Assemble the ring onto the handle sliding the dovetail of the Axial Patella Reamer Ring onto the mating dovetail of the Axial Patella Prep Handle *(Figure 17)* Note: It is easiest to assemble the ring with the thumb and index finger placed as shown *(Figure 18).*

Evert the patella to 90 degrees and position the Axial Patella Prep Handle over the patella. Squeeze the handle until the patella is protruding into the ring and the patella is secure *(Figure 19).*

Select the Axial Patella Reamer Blade size that covers the full surface of the patella. Note: The blade size does not necessarily match the ring size.

Assemble the Axial Patella Reamer Blade by introducing it into the Axial Patella Reamer Guide slot and rotating the blade counter-clockwise until it locks in place *(Figure 20).*

Figure 17
Slide Dovetail of Ring onto Mating Part of Handle

Figure 18
Assemble with Hand Placement as Shown

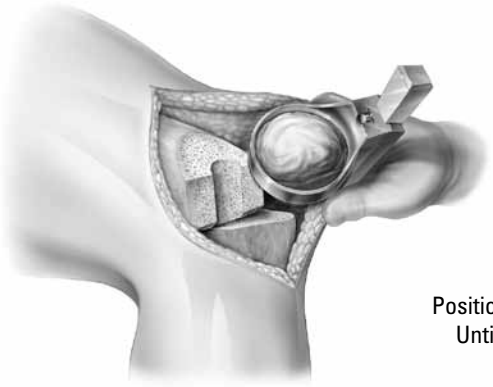


Figure 19
Position Clamp and Squeeze Until Patella is Secured

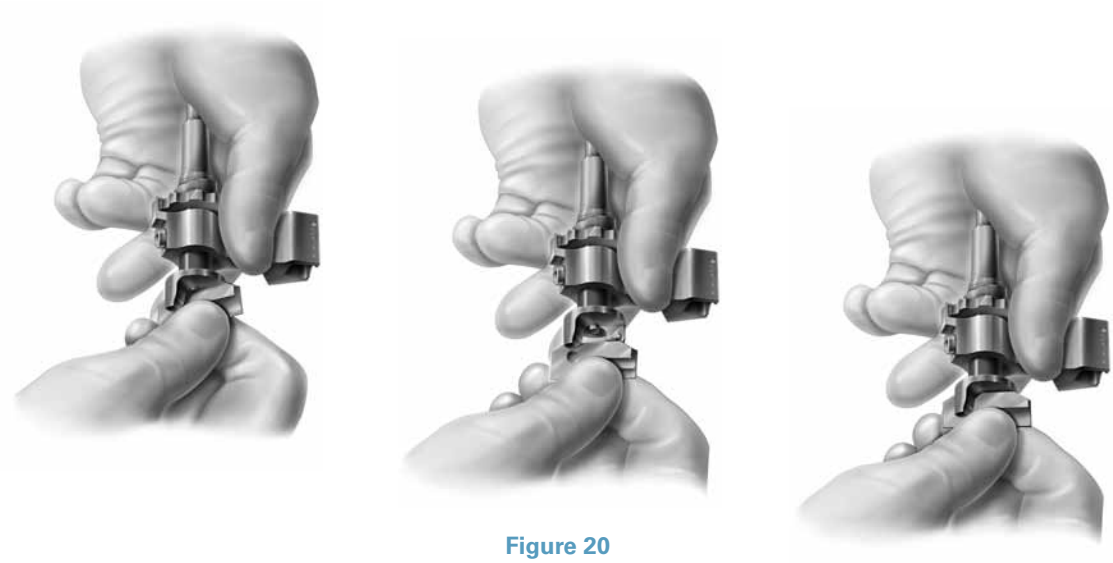


Figure 20
Assemble the Axial Blade to Reamer Guide

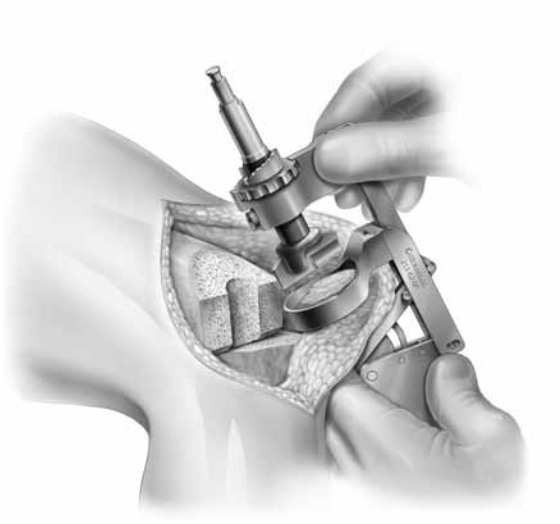


Figure 21
Assemble Reamer Guide to Prep Handle

Assemble the Axial Patella Reamer Guide to the Axial Patella Prep Handle by pressing the release button on the side and sliding the guide onto the Axial Patella Prep Handle shaft *(Figure 21).*

Slide Axial Patella Reamer Guide along the handle shaft until the blade contacts the patella bone *(Figure 22).* The patella thickness is indicated along the Axial Patella Prep Handle shaft where the guide crosses the markings on the handle as shown *(Figure 23).* Select the desired amount of bone resection by rotating the guide selector knob *(Figure 24).*

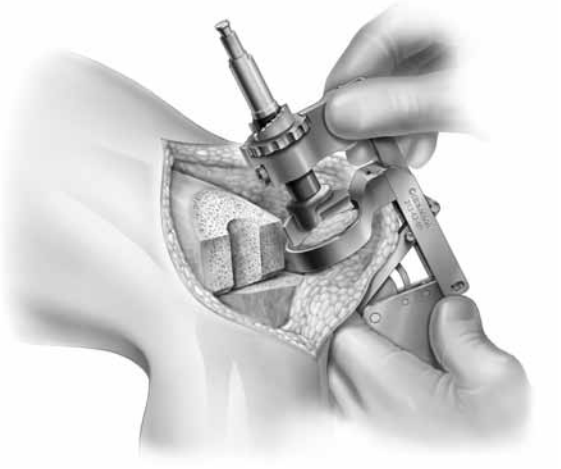


Figure 22
Slide Reamer Guide Along Handle Shaft

Figure 23
Patella Thickness Indication on Prep Handle Shaft

Figure 24
Rotate Guide Selector Knob for Resection Amount

Attach the power tool to Axial Patella Reamer Guide as shown *(Figure 25).*

Set the power tool to operate in a clockwise direction. Caution: Do not operate power tool in reverse.

Once in proper mode, activate the power tool and remove bone until depth stop restricts further resection. ***Note:*** *It may be necessary to increase the resection depth by adjusting the Axial Patella Reamer Guide selector knob.*

Disconnect power tool from coupler and remove the Axial Patella Reamer Guide from handle *(Figure 26).* Unclamp patella using the handle release *(Figure 27)* and remove handle from patella *(Figure 28).*

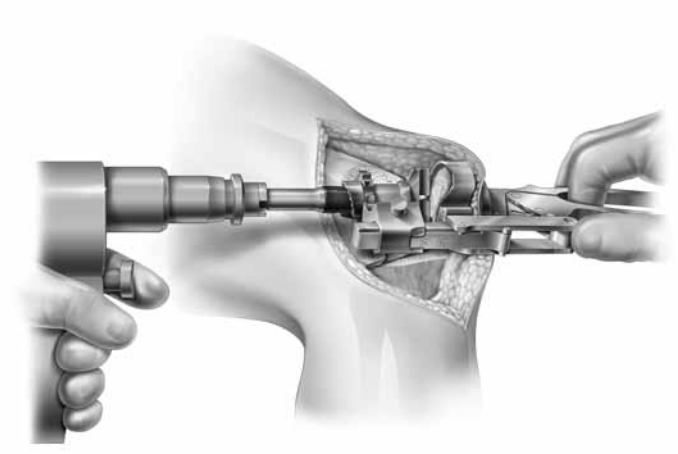


Figure 25
Attach Power Tool and Ream

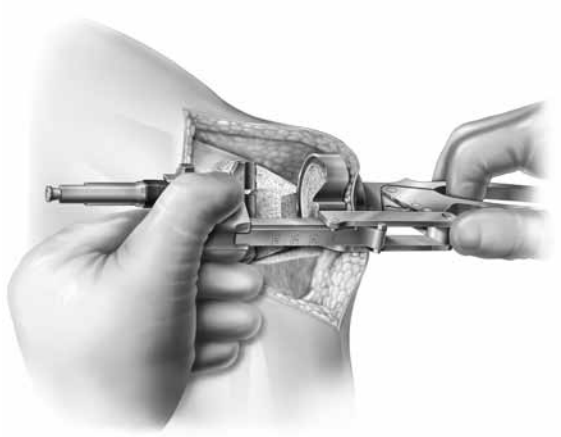


Figure 26
Remove Reamer Guide

Figure 27
Unclamp Patella Using Handle Release

Figure 28
Remove Handle from Patella

INSET PATELLA REAMER PREPARATION

Prior to the device assembly, use the **Inset Patella Reamer Rings** to size the patella *(Figure 29).*

Select the Inset Patella Reamer ring that contacts the patella bone. ***Note:*** *The ring size should fit the patella and does not necessarily correlate to the patella implant size.*

Depress the trigger on the **Inset Patella Reamer Prep Handle** to open the lever *(Figure 30).*

Assemble the ring onto the handle sliding the dovetail of the Inset Patella Reamer Ring onto the mating dovetail of the Inset Patella Prep Handle *(Figure 31).* Note: Select the ring based on patella size and preferred technique. The 35mm ring is provided, since the inset blades are of smaller diameter. It is easiest to assemble the ring with the thumb and index finger placed as shown (Figure 32).

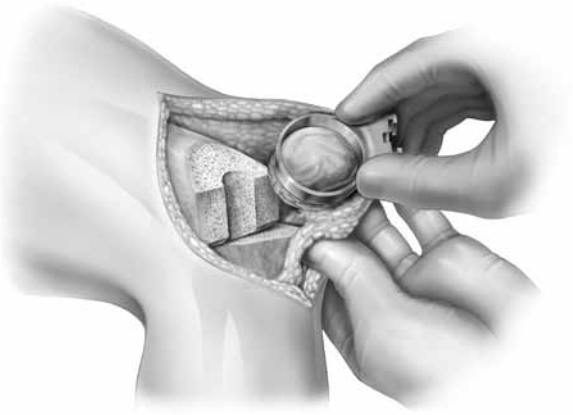


Figure 29
Size the Patella with Inset Patella Reamer Rings

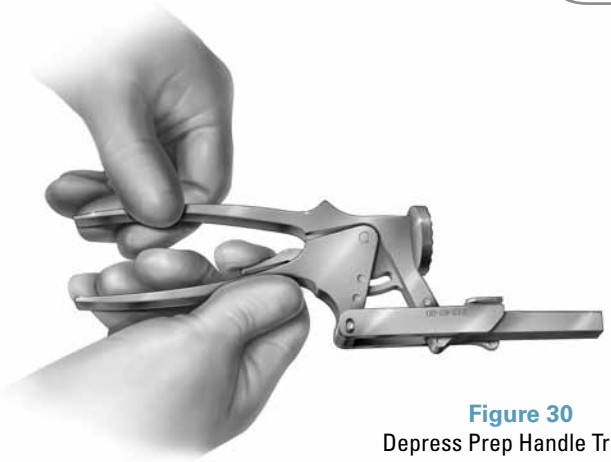


Figure 30
Depress Prep Handle Trigger

Figure 31
Slide Dovetail of Ring onto Mating Part of Handle

Figure 32
Assemble with Hand Placement as Shown

Evert the patella to 90 degrees and position the Inset Patella Prep Handle over the patella. Squeeze the handle *(Figure 33).*

Select the **Inset Patella Reamer Blade** size, either 23, 26 or 29mm. Note: The blade size does not necessarily match the ring size.

Assemble the Inset Patella Reamer Blade by introducing it into the **Inset Patella Reamer Blade Guide** slot and rotating the blade counter-clockwise until it locks in place. *(Figure 34)*

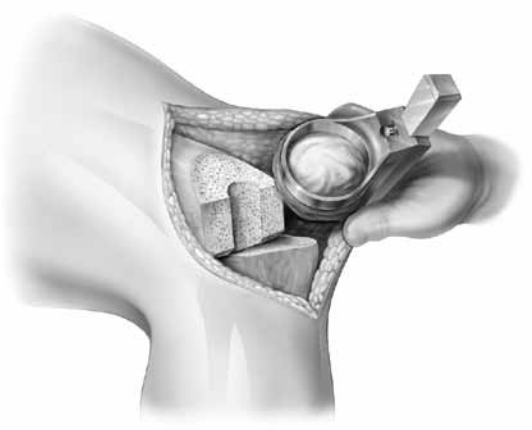


Figure 33
Position Clamp and Squeeze Until Patella

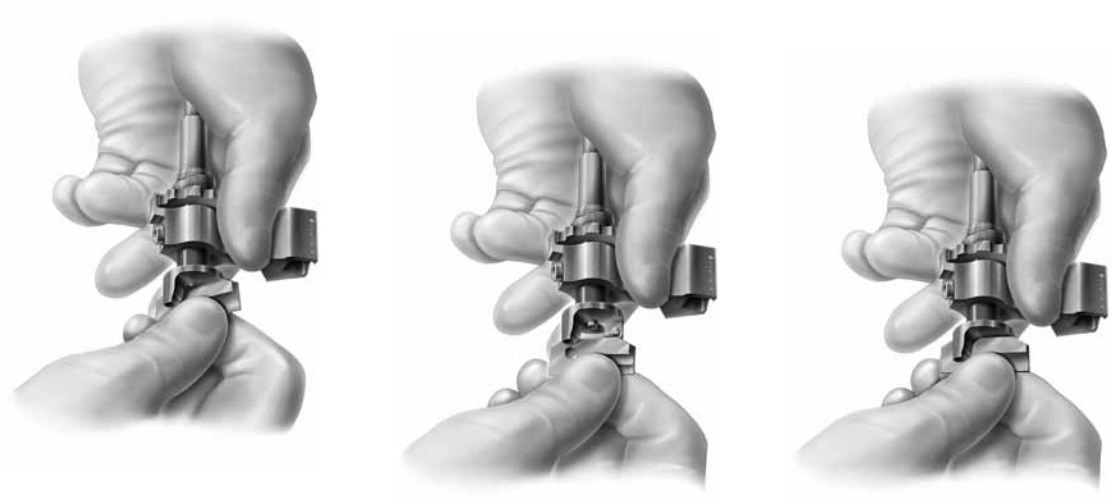


Figure 34
Assemble the Inset Blade to Reamer Guide

Figure 35
Assemble Reamer Guide to Prep Handle

Assemble the Inset Patella Reamer Guide to the Axial Patella Prep Handle by pressing the release button and sliding the guide onto the Inset Patella Prep handle shaft. *(Figure 35)*

Slide Inset Patella Reamer Guide along the handle shaft until the blade contacts the patella bone *(Figure 36).* The patella thickness is indicated along the Patella Prep handle shaft where the guide crosses the markings on the handle as shown *(Figure 37).*

Note: *The indication of patella thickness on the back of the handle will be 5mm greater than actual, since the thickness is being referenced by the 5mm-length pilot drill tip on the blade. The goal is to recess the patella component into the patella bone, leaving only the dome of the implant exposed.*

Set the bone resection depth to the blade diameter on the resection selector, with the coupler positioned down the shaft handle as far as possible. *(Figure 38)*

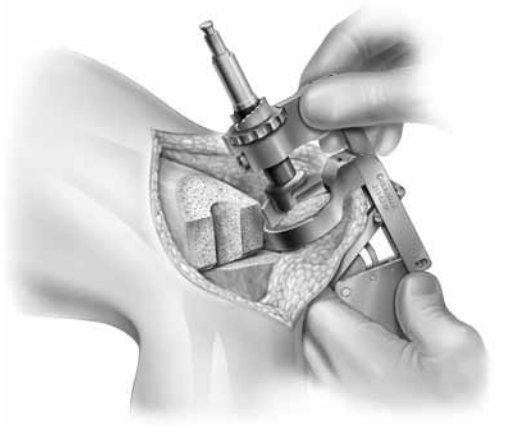


Figure 36
Slide Reamer Guide Along Handle Shaft

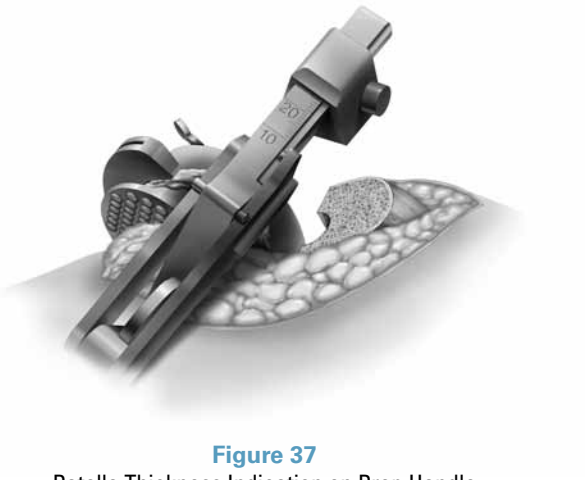


Figure 37
Patella Thickness Indication on Prep Handle Shaft, Set to Minus 5mm

Figure 38
Rotate Guide Selector Knob for Resection Amount

Attach the power tool to the coupler as shown *(Figure 39).*

Set the power tool to operate in a clockwise direction. Caution: Do not operate power tool in reverse.

Once in proper mode, activate the power tool and remove bone until the desired depth is resected or the depth stop is engaged. ***Note:*** *See Table 1 for component thicknesses.*

Table 1. Patella Component Thicknesses

Patella Thickness	
23mm	8.6mm
26mm	9.5mm
29mm	10.5mm

When you would like to have the patella component sit proud, visually identify a stopping point prior to reaching the depth stop.

Remove Inset Patella Reamer Guide from patella bone *(Figure 40).* Disconnect power tool from coupler and then remove from handle. Unclamp patella using the handle release *(Figure 41)* and remove handle from patella *(Figure 42).*

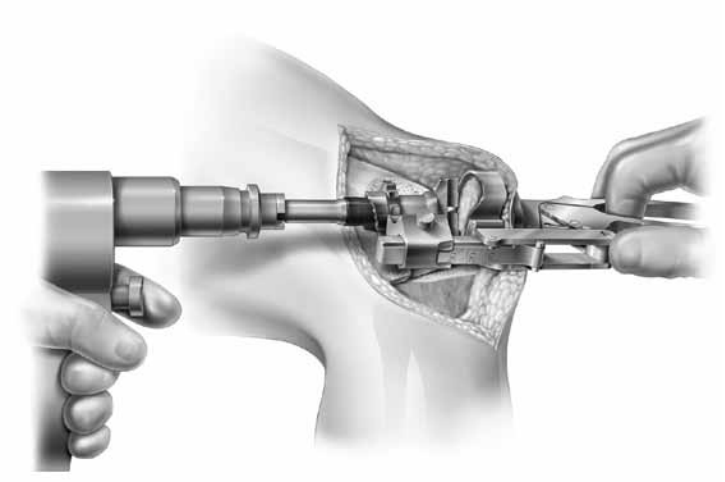


Figure 39
Attach Power Tool and Ream

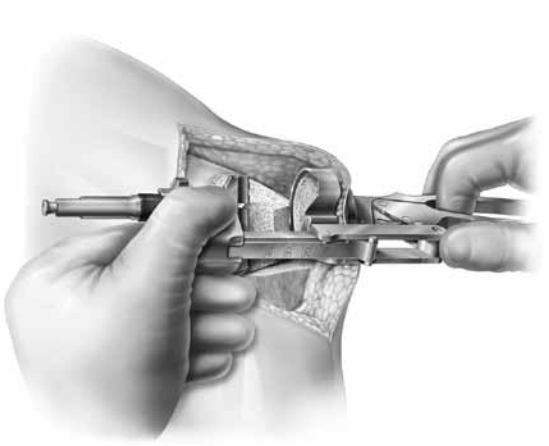


Figure 40
Remove Reamer Guide

Figure 41
Unclamp Patella Using Handle Release

Figure 42
Remove Handle from Patella

INSTRUMENT LISTING

Part number	Description
Axial Patella Saw Guide	
213-62-00	Axial Patella Preparation Handle
213-62-02	Axial Patella Saw Guide
213-65-29	Axial Patella Saw Guide Ring 29mm
213-65-35	Axial Patella Saw Guide Ring 35mm
213-65-41	Axial Patella Saw Guide Ring 41mm
213-65-47	Axial Patella Saw Guide Ring 47mm
213-65-53	Axial Patella Saw Guide Ring 53mm
Axial Surface Patella Reamer	
213-62-00	Axial Patella Preparation Handle
213-62-02	Axial Patella Reamer Guide
213-63-00	Axial Patella Reamer Blade Removal Tool
213-62-29	Axial Patella Reamer Ring 29mm
213-62-35	Axial Patella Reamer Ring 35mm
213-62-41	Axial Patella Reamer Ring 41mm
213-62-47	Axial Patella Reamer Ring 47mm
213-62-53	Axial Patella Reamer Ring 53mm
213-64-29	Axial Patella Reamer 29mm Standard Blade
213-64-35	Axial Patella Reamer 35mm Standard Blade
213-64-41	Axial Patella Reamer 41mm Standard Blade
213-64-47	Axial Patella Reamer 47mm Standard Blade
Axial Inset Patella Reamer	
213-64-53	Axial Patella Reamer 53mm Standard Blade
213-62-00	Axial Patella Preparation Handle
213-62-03	Axial Patella Inset Reamer Guide
213-63-00	Axial Patella Reamer Blade Removal Tool
213-62-26	Axial Patella Reamer Ring 26mm
213-62-29	Axial Patella Reamer Ring 29mm
213-62-35	Axial Patella Reamer Ring 35mm
213-63-23	Axial Patella Reamer 23mm Inset Blade
213-63-26	Axial Patella Reamer 26mm Inset Blade
213-63-29	Axial Patella Reamer 29mm Inset Blade

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For additional device information, refer to the Exactech Optetrak Knee System– Instructions for Use for a device description, indications, contraindications, precautions and warnings. • For further product information, please contact Customer Service, Exactech, Inc., 2320 NW 66th Court, Gainesville, Florida 32653-1630, USA. (352) 377-1140, (800) 392-2832 or FAX (352) 378-2617.

Exactech, as the manufacturer of this device, does not practice medicine, and is not responsible for recommending the appropriate surgical technique for use on a particular patient. These guidelines are intended to be solely informational and each surgeon must evaluate the appropriateness of these guidelines based on his or her personal medical training and experience. Prior to use of this system, the surgeon should refer to the product package insert for comprehensive warnings, precautions, and indications for use, contraindications and adverse effects.

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