

EMPHASYS™

Acetabular Solutions

Surgical Technique

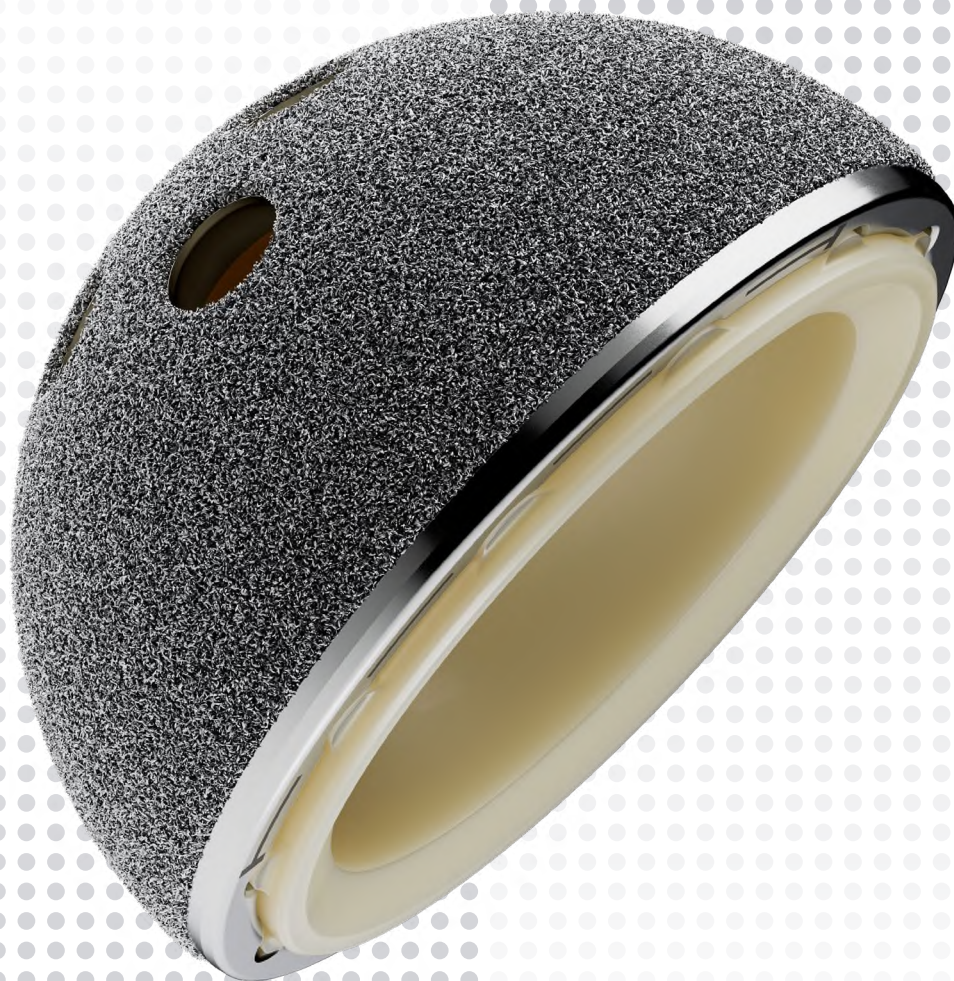


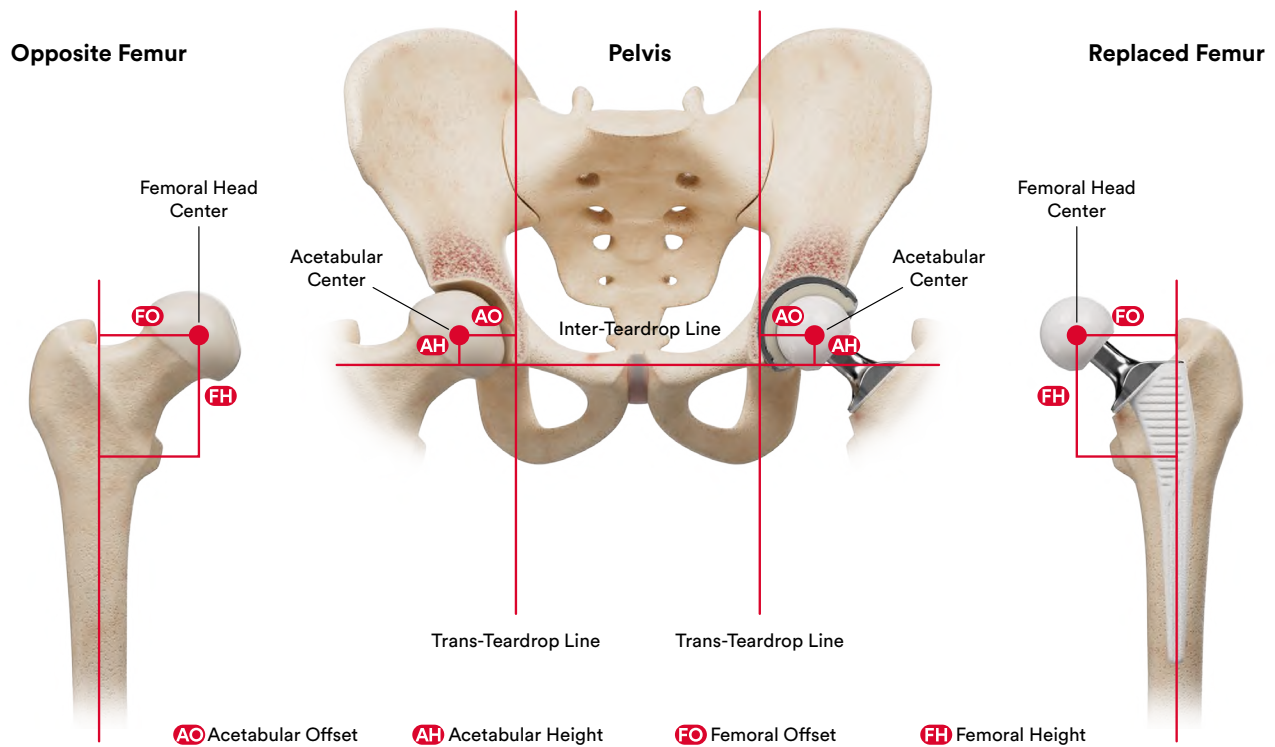
Table of Contents

Surgical Technique	Templating and Pre-Op Planning	4
	Acetabular Reaming	6
	Acetabular Shell Trialing	8
	Shell Trialing and Positioning	10
	Shell Implantation	13
	Adjunct Screw Fixation	16
	Liner Trialing	19
	Liner Implantation	20
	Liner Extraction	22

Appendices	Appendix I: Reamer Driver Assembly and Disassembly	25
	Appendix II: Inclination Guide Angle Check	29
	Appendix III: Liner Impactor Tip Assembly and Disassembly	30
	Appendix IV: Understanding Trial Component Selection	31

Ordering Information	Technical Specifications	35
	Implants	36
	Instruments	37
	EMPHASYS Acetabular Solutions Compatibility	59
	DePuy Synthes Femoral Head Compatibility	60

Templating and Pre-Op Planning



Analysis and comparison of the contralateral hip in anteroposterior and lateral projections.

Radiographs

- Perform a thorough analysis of the hip with comparison to the contralateral side in anteroposterior (A/P) and lateral projections.
- Imaging magnification is 20% for non-digital templates.
- Markers attached to the patient's leg at the trochanteric level will assist in confirming magnification level.
- For the A/P projection, place both lower limbs in 15° of internal rotation to position the head and neck parallel to the coronal plane.
- Center the beam on the symphysis pubis and ensure the proximal femoral shaft is included in the radiograph.
- If the patient has significant flexion contracture or external rotation deformity, calculation of length and offset may be inaccurate.

Determination of leg length discrepancy

- Perform a clinical evaluation in conjunction with a radiographic analysis to determine preoperative leg length discrepancy.
- Use both to determine intraoperative leg length discrepancy.
- Draw a reference line through the bottom of the ischium.
- Measure the distance from the lesser trochanter landmark to the reference line on each side.
- The distance between the two is the radiographic leg length discrepancy.

■ **Note:** The tip of the greater trochanter may be used as an alternative reference mark in conjunction with the lines through the obturator foramina.

Acetabular Shell Size and Position

- Radiographs will demonstrate the acetabular configuration and the endosteal and periosteal contours of the femoral head, neck and proximal femur.
- Template the normal hip to prevent underestimation of offset caused by external rotation.
- Consider anatomical anomalies, dysplasia, previous fracture or leg length discrepancy.
- Position the A/P radiograph template at the appropriate abduction angle.
- Digital templates are available for surgeons wanting to utilize a digital templating system.

▲ **Important:** EMPHASYS™ Shells with GRIPTION™ S Porous Coating will create a 0.5 mm press-fit. For example, 1 mm under ream equals 1.5 mm press fit. The recommended technique for EMPHASYS™ Shells is to ream line-to-line with the planned shell size.

Acetabular Reaming

Select reamer

- Use a reamer smaller than the anticipated acetabular component size to deepen the acetabulum to the level determined by pre-operative templating.
- Proceed in 1-2 mm increments for subsequent reaming.
- Reamers are marked in true dimensions
- Reamers, trial shells and shells are all 180°.



Crossback Acetabular Reamer



QUICKSET™ Acetabular Grater Head

■ **Note:** Crossback styled reamer is shown throughout surgical technique, however either of the reamer styles [above] are compatible.

Attach reamer

Attach reamer to the offset or straight reamer driver handle using the standard reamer connection.

- ① Engage bar of reamer into opening of reamer head.
- ② Turn reamer counter clockwise until hearing “click”.

See Appendix I (p25) for further information on the offset reamer driver assembly/disassembly and connection of acetabular reamers.



Offset Reamer Driver

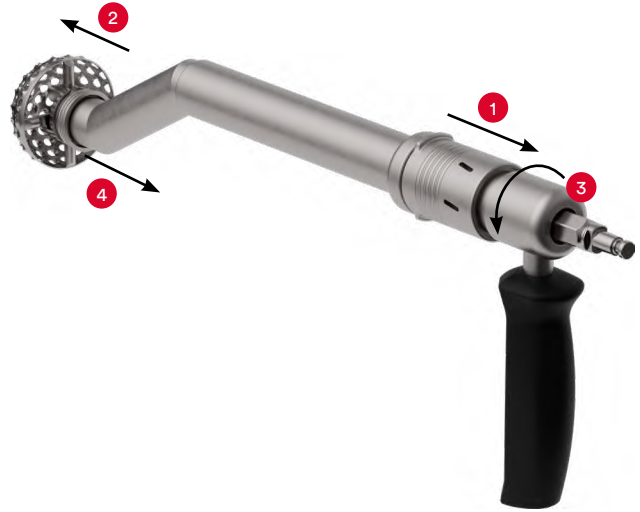


Straight Reamer Driver

Adjust handle

To change the orientation of the offset, follow the steps below:

- ① Pull the sleeve back towards the proximal end of the handle.
- ② Pull the cranked arm slightly forwards until it disengages slightly from the main chassis.
- ③ While holding the cranked arm, rotate the side handle to desired clocked position.
- ④ Return the cranked arm into the chassis and release the sleeve.



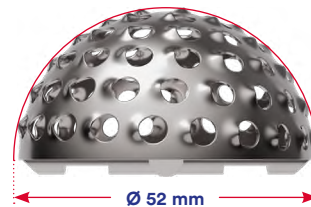
Ream Acetabulum

- Begin sequentially reaming the cavity.
- Assess acetabulum for good bleeding bone.
- Repeat reaming until desired size is achieved or sufficient host bone is reached.

▲ **Important:** EMPHASYS™ Shells with GRIPTION™ S Porous Coating will create a 0.5 mm press-fit. For example, 1 mm under ream equals 1.5 mm press fit. The recommended technique for EMPHASYS™ Shells is to ream line-to-line with the planned shell size.

■ **Note:** Correct positioning of the reamer will result in a visible portion at the superolateral rim.

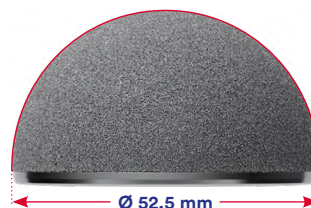
■ **Note:** Under-reaming of the acetabulum is dependent on bone quality and the size of the acetabular component.



A 52 mm Reamer prepares a 52 mm envelop



A 52 mm trial shell is 52 mm in diameter



A 52 mm acetabular shell is 52.5 mm in diameter as measured over the coating

Acetabular Shell Trialing

Assess the size, bone quality and position of the reamed acetabulum.

Select trial shell

Trial shells are available in 1 mm increments.

■ **Note:** Odd size trial shells are lateralized to maintain head center of shell implant.

Attach trial shell

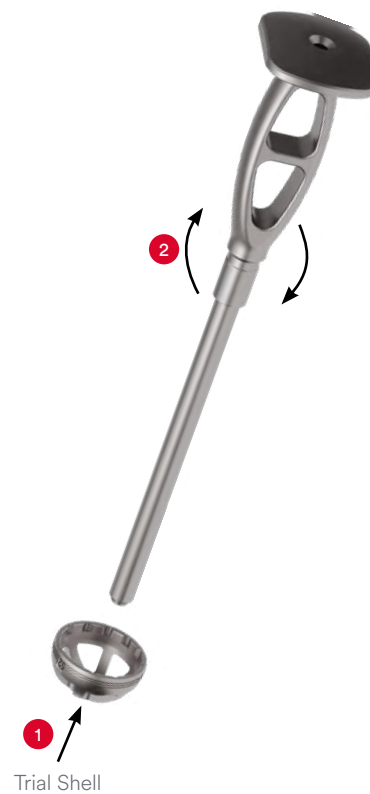
Straight Impactor

- ① Align the threaded hole in the trial shell with the threaded tip of the impactor.
- ② Securely thread the trial shell onto the impactor.

■ **Note:** Tighten the thread sufficiently to prevent unintentional loosening during impaction.



Trial Shell



Trial Shell

Curved Impactor

- ① With impactor anti-rotation lever unlocked, slot the ball hex driver into the housing to engage the threaded tip of the impactor.
- ② Align the threaded hole in the trial shell with the threaded tip of the impactor.
- ③ Rotate the hex driver clockwise to securely thread the trial shell onto the impactor.
- ④ Remove the ball hex driver and engage the anti-rotation lever.

- ⑤ Press the release on the side of the impactor to disengage the locking mechanism.
- ⑥ Slot the ball hex driver into the housing and rotate the hex driver counterclockwise to unthread the prosthesis. Pull the impactor away from the prosthesis.

■ **Note:** If the trial shell is torqued onto the handle, unthreading may become difficult. To overcome the torque, rotate the entire curved handle, which will break the tension between the handle and the trial shell. Continue unthreading with the hex driver as usual.

▲ **Important:** For best performance, lubricate the articulating surfaces of the curved impactor following the instructions provided with the device. Lubricate after cleaning and prior to sterilization.



▲ **Important:** Only EMPHASYS Impactor Handles are compatible with EMPHASYS Shells and Trial Shells.



Shell Trialing and Positioning

Inclination guide

An acetabular inclination guide is provided to assist with trial shell positioning.

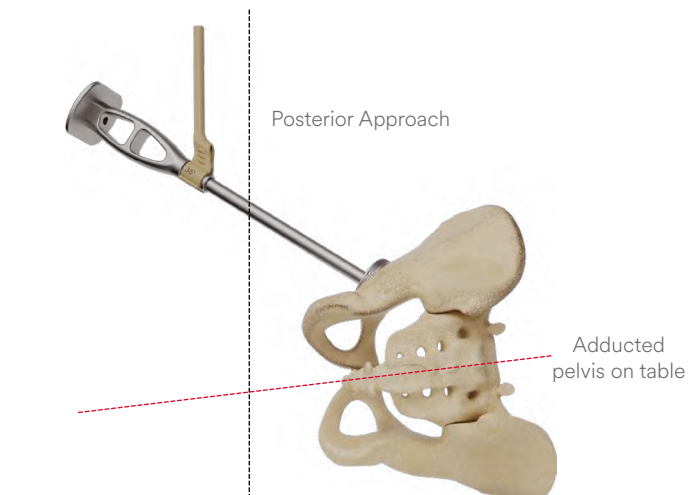
- The 35° inclination guide is intended for use with the patient in the lateral decubitus position. The inclination guide includes a 10° correction factor to compensate for typical patient pelvic adduction relative to the operating table. The 35° inclination guide angle, used intraoperatively with a posterior approach, equates to 45° of radiographic inclination of the acetabular trial shell or shell implant. The guide does not compensate for variation in patient positioning.

▲ **Important:** Use of the inclination guide is not Intended for use with the patient in a supine position.

■ **Note:** According to **“Photographic measurement of the inclination of the acetabular component in total hip replacement using the posterior approach”** from The Journal of Bone & Joint Surgery Vol. 92-B, No. 9, Sept 2010, **“The mean post-operative radiological inclination was 13° greater than the photographed operative inclination. It appears that in the lateral decubitus position with a posterior approach, the uppermost hemipelvis adducts, thus reducing the apparent operative inclination. Surgeons using the posterior approach in lateral decubitus need to aim for a lower operative inclination than when operating with the patient supine in order to achieve an acceptable radiological inclination.”**



Impactor Inclination Guide



Attach inclination guide

Straight Impactor

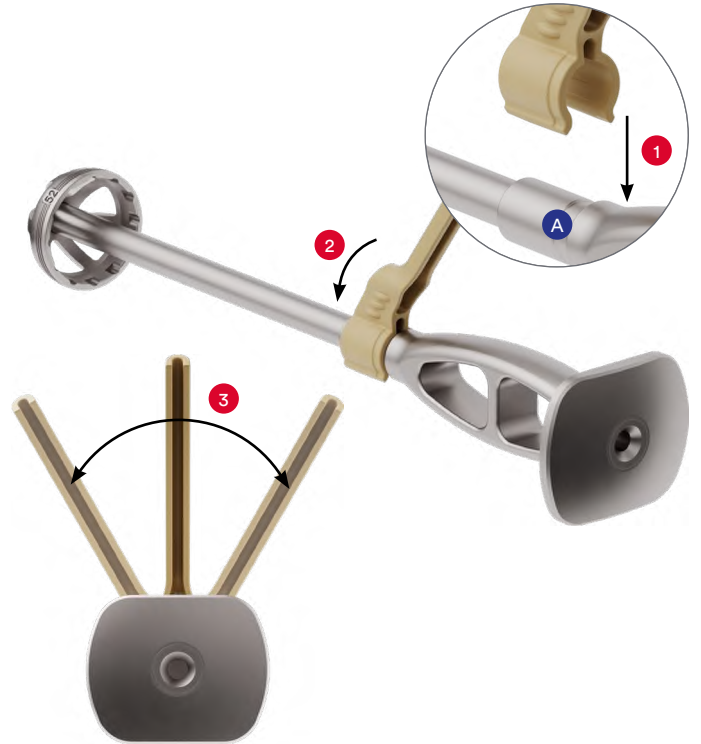
- 1 Align the inclination guide clip with the mating groove **A** on the impactor. The guide rod will be pointing towards the strike plate.



- 2 Snap the inclination guide to the impactor groove.

■ **Note:** The rib inside the clip will be in the narrow groove when correctly seated

- 3 Adjust the position to suit soft tissue accessibility.



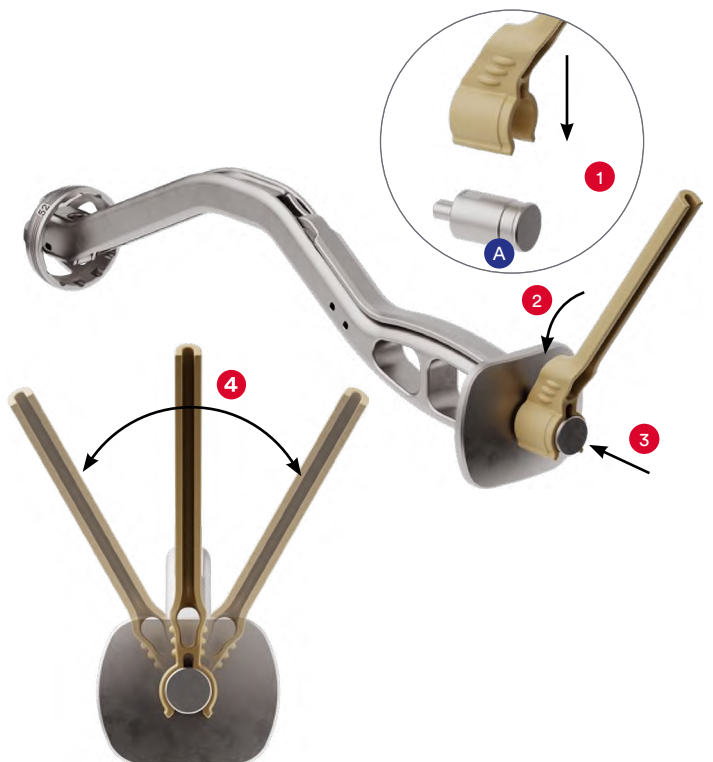
Curved Impactor

- 1 Align the inclination guide clip with the mating groove **A** on the inclination guide adaptor.
- 2 Snap the inclination guide to the adaptor groove.
- 3 Attach the inclination guide adaptor onto the impactor strike plate. The guide rod will be pointing away from the strike plate.



- 4 Adjust the position to suit soft tissue accessibility.

See Appendix II (p29) for further information on checking the angle of the inclination guide.



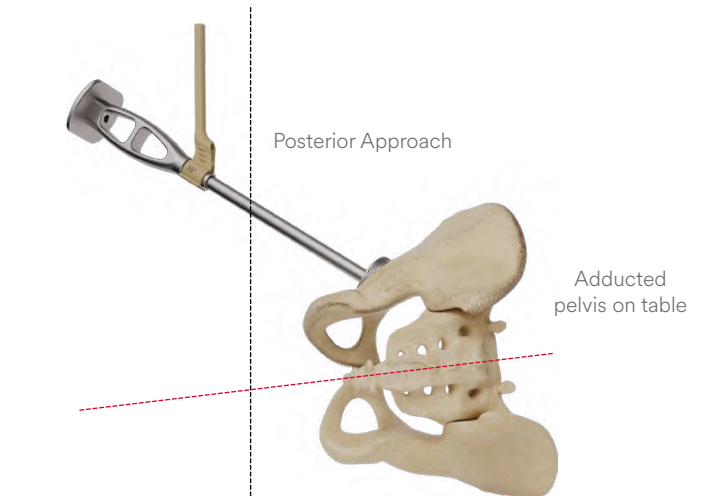
Trial Shell Positioning

- If assessing the reamed acetabulum using the trial shell, the trial may be assembled onto the impactor.
- Once assembled, test the trial shell in the reamed acetabulum.
- **Lateral decubitus** - When using the alignment guide, ensure the guide is vertical in both planes as per the image.
- **Supine** - The alignment guide is not intended for use if the patient is in supine position.
- Confirm complete trial seating by sighting through the cutouts in the acetabular trial shell.

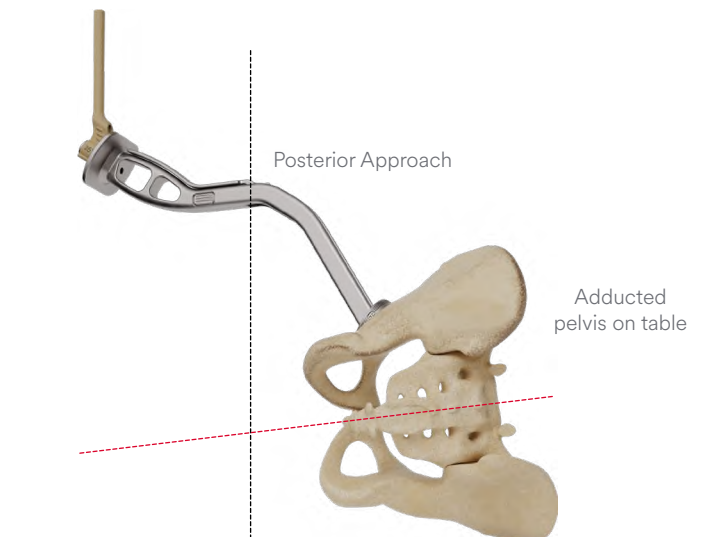
■ **Note:** Check the anteversion using the anatomical landmarks of the antero-lateral acetabular rim and the transverse acetabular ligament.

▲ **Important:** The Inclination guide provides guidance for inclination angle only. It does not indicate acetabular trial shell anteversion.

▲ **Important:** The inclination guide includes a 10° correction factor to compensate for typical patient pelvic adduction relative to the operating table. The guide does not compensate for variation in patient positioning.



Straight Impactor



Curved Impactor

Shell Implantation

Implantation of the acetabular component

Select primary shell implant

Select the shell implant size determined by planning and/or Trialing.

Attach primary shell

Straight Impactor

Attach the primary shell implant to the shell impactor instrument:

- ① Align the threaded hole in the implant with the threaded tip of the impactor.
- ② Securely thread the implant onto the impactor.



Primary Shell Implant



Curved Impactor

- ① Slot the ball hex driver into the housing to engage the threaded tip of the impactor.
- ② Align the threaded hole in the shell with the threaded tip of the impactor.
- ③ Rotate the hex driver clockwise to securely thread the shell onto the impactor.

■ **Note:** Position screw holes as desired before tightening the shell completely.

- ④ Remove the ball hex driver and engage the anti-rotation lever.



Please follow previous guidance on pages 10–12 for correct use of the alignment guide in lateral decubitus.

Insert primary shell

Straight Impactor

Place the shell in the reamed acetabulum.

- 1 After confirming alignment, 2 impact the prosthesis into position until fully seated.

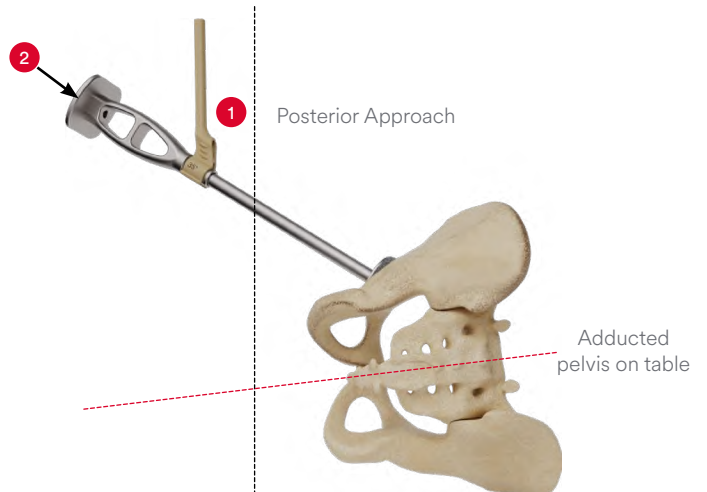
■ **Note:** Check the anteversion using the anatomical landmarks of the antero-lateral acetabular rim and the transverse acetabular ligament.

■ **Note:** Rim contact will occur before dome seating. Full seating may require additional impaction.

■ **Note:** Seating confirmation is done by sight through the apical hole or, if available, the screw holes.

If adjustments to the shell orientation are necessary, re-attach the instrument into the apical hole to adjust the shell position.

▲ **Important:** DO NOT adjust the shell position by impacting the taper region or shell face, as this may damage the implant.



Please follow previous guidance on pages 10–12 for correct use of the alignment guide in lateral decubitus.

Insert primary shell

Curved Impactor

Place the shell in the reamed acetabulum.

- ① After confirming alignment, remove the inclination guide and adaptor from the strike plate.
- ② Impact the prosthesis into position until fully seated.
- ③ Press the release on the side of the impactor to disengage the locking mechanism.
- ④ Slot the ball hex driver into the housing and rotate the hex driver counterclockwise to unthread the prosthesis. Pull the impactor away from the prosthesis.

■ **Note:** If the shell is torqued onto the handle, unthreading may become difficult. To overcome the torque, rotate the entire curved handle, which will break the tension between the handle and the shell. Continue unthreading with the hex driver as usual.

■ **Note:** Check the anteversion using the anatomical landmarks of the antero-lateral acetabular rim and the transverse acetabular ligament.

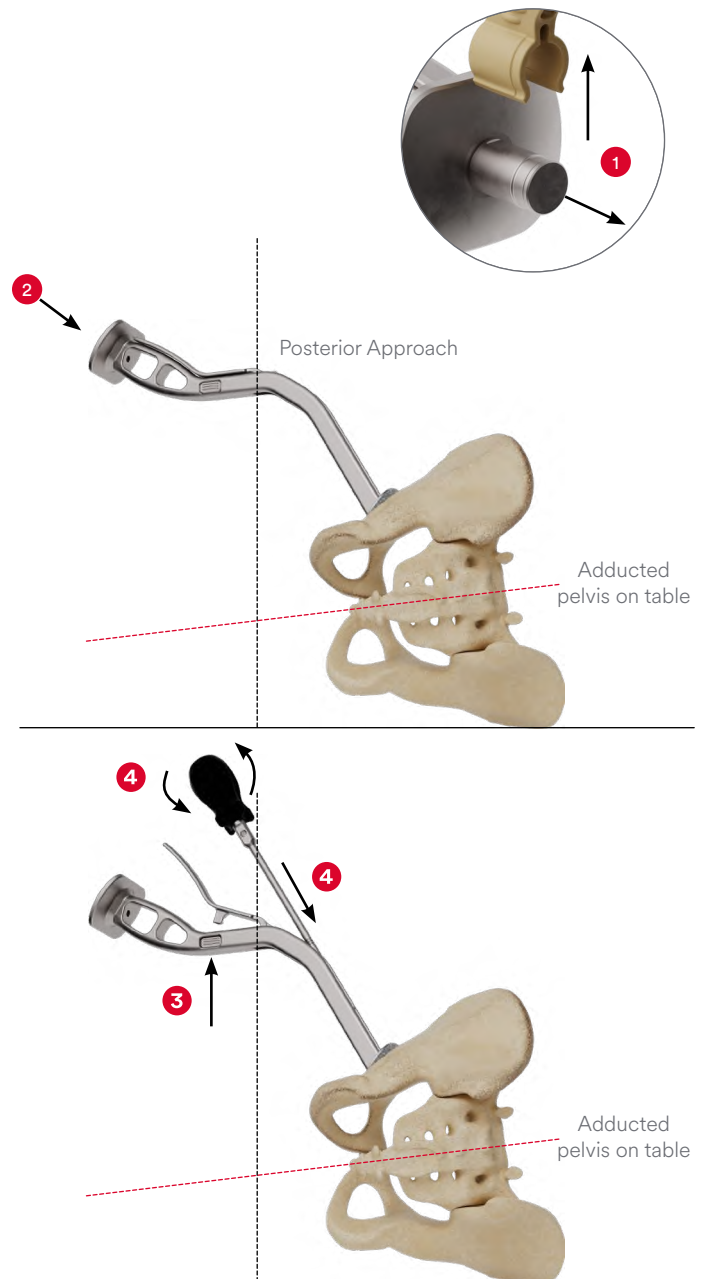
■ **Note:** Rim contact will occur before dome seating. Full seating may require additional impaction.

■ **Note:** Seating confirmation is done by sight through the apical hole, or, if available, the screw holes.

If adjustments to the shell orientation are necessary, reattach the instrument into the apical hole to adjust the shell position.

▲ **Important:** DO NOT adjust the shell position by impacting the taper region or shell face, as this may damage the implant.

■ **Note:** Final position of the shell can be confirmed by re-attaching the inclination guide and the adaptor.



Adjunct Screw Fixation

Screw fixation of the shell

The 3-Hole and Multi-Hole shells are designed to achieve adjunct fixation with the use of 6.5 mm dome screws.

▲ Important: Screw locations should be within the safe quadrant. The safe quadrant is defined by two lines. One from the anterior–inferior iliac spine through the center of the acetabulum and the other from the sciatic notch through the center of the acetabulum.

▲ Important: Screws cannot be placed within the apical hole of the shell.

The screw installation angle is variable up to 34° total (17° each direction from perpendicular to the shell surface).

Drill guide ends provide variable or perpendicular angulation.

Insert selected drill bit into drill drive shaft:

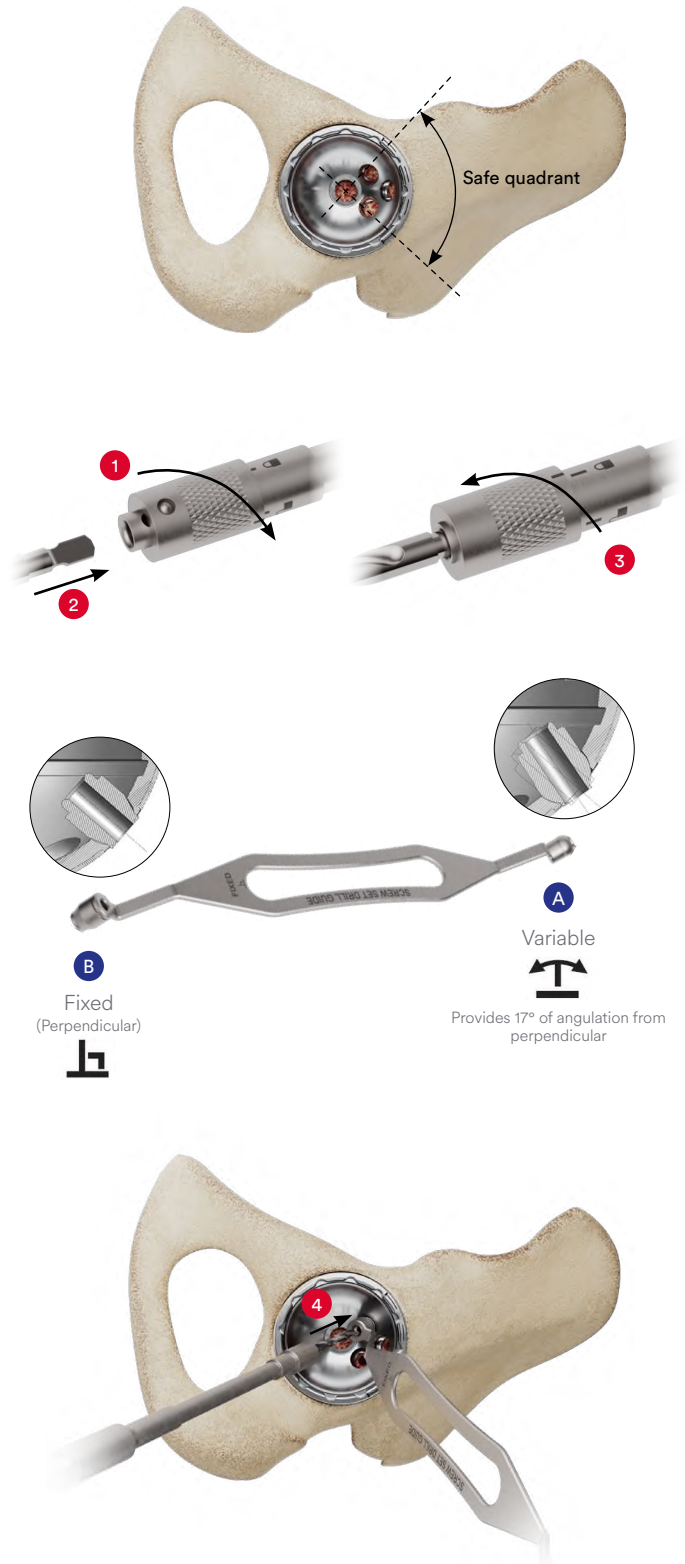
- ① Pull back on drill shaft collar and align with “unlocked” position mark
- ② While continuing to pull back on collar, insert drill bit fully into driver. Ensure drill bit is fully seated into driver. Shoulder of drill bit will bottom out on driver when fully seated.
- ③ Twist collar to “locked” position and release collar to lock drill bit to driver.

Attach power tool to drill drive shaft.

Position the variable **A** or perpendicular **B** end of the drill guide solidly against the screw hole in the shell.

- ④ Advance drill through guide and hole with guide against the shell. Repeat the process in available holes where required.

▲ Important: Ensure the drill guide is fully and properly seated within the screw hole prior to engaging the drill bit into bone. If the drill guide is not properly used it may result in screw heads sitting proud and prevent seating of the liner.



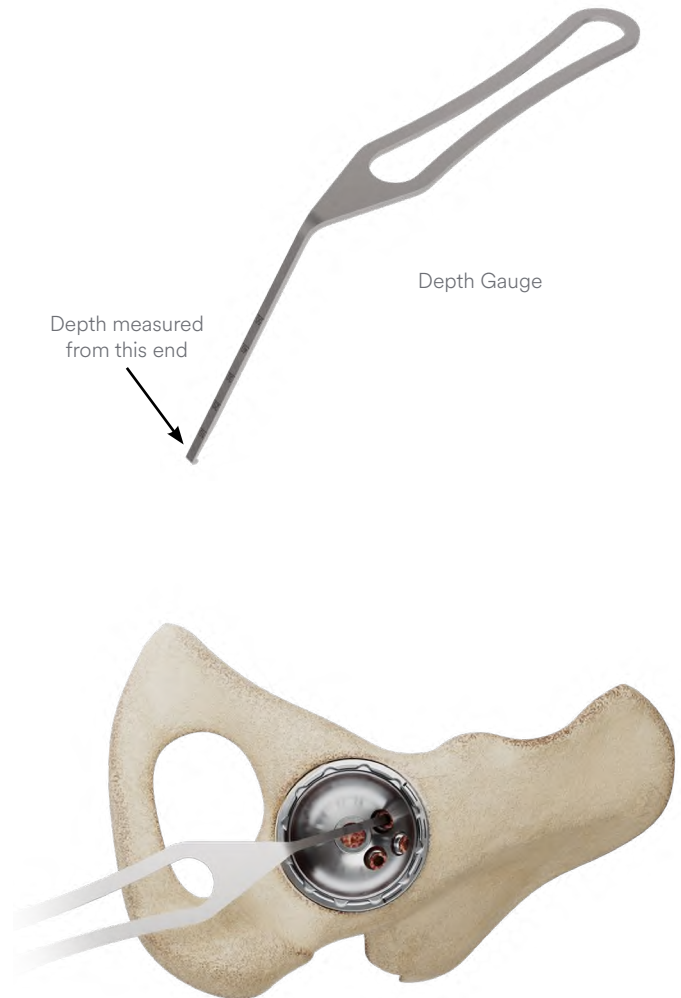
Screw fixation of the shell (continued)

Verify the hole depth using the depth gauge.

- Insert depth gauge into drilled bone hole
- Engage tip of depth gauge at far cortex
- Within wound space assess screw length

■ **Note:** If difficulty determining screw length within wound space, a hemostat or similar tool can be used to clip the depth gauge at the shell interface. Then remove the depth gauge from the wound space and assess screw length.

■ **Note:** Graduations on the depth gauge are marked in 10 mm increments.



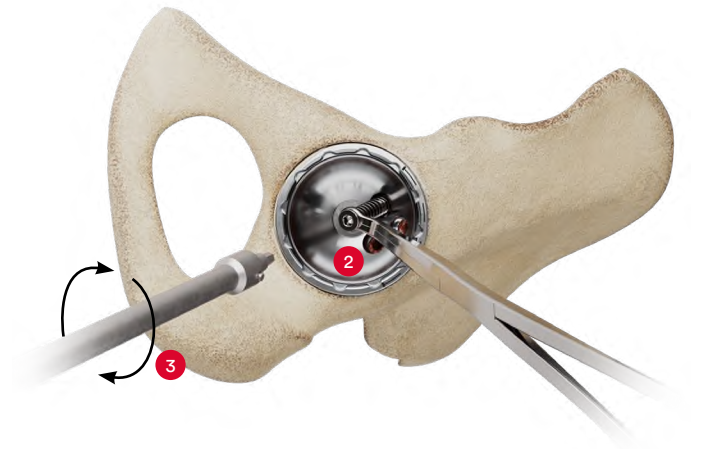
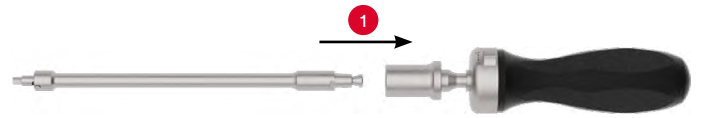
Screw fixation of the shell (continued)

- ① Insert driver shaft into driver handle.
- ② Hold and control screw using the screw forceps.
- ③ Manually drive bone screw into the acetabulum.

■ **Note:** Both variable driver shafts and fixed driver shafts are available.

■ **Note:** The handle provides a ratcheting action in the forward and reverse directions. Selection is made by rotating the front collar in the direction indicated on the handle. Placing the collar in the center location results in a fixed, non-ratcheting handle action.

■ **Note:** Check that all screw heads are fully seated below the inner surface of the shell to ensure proper liner seating.

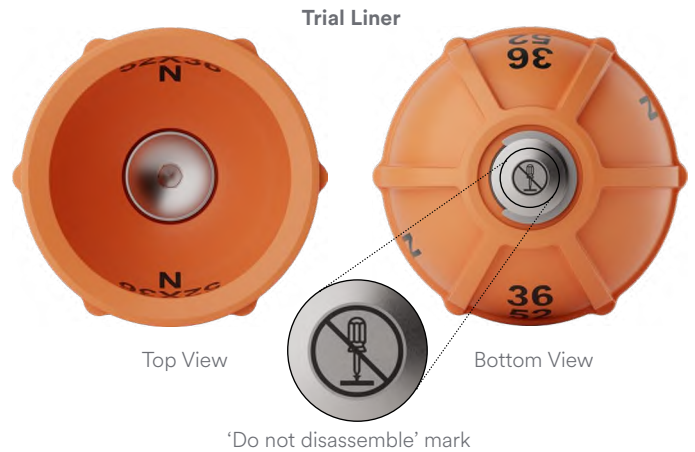


Liner Trialing

To assess joint stability and range of motion of the proposed implant system. Trial liners can be used with trial shells or shell implants.

Trial liner selection

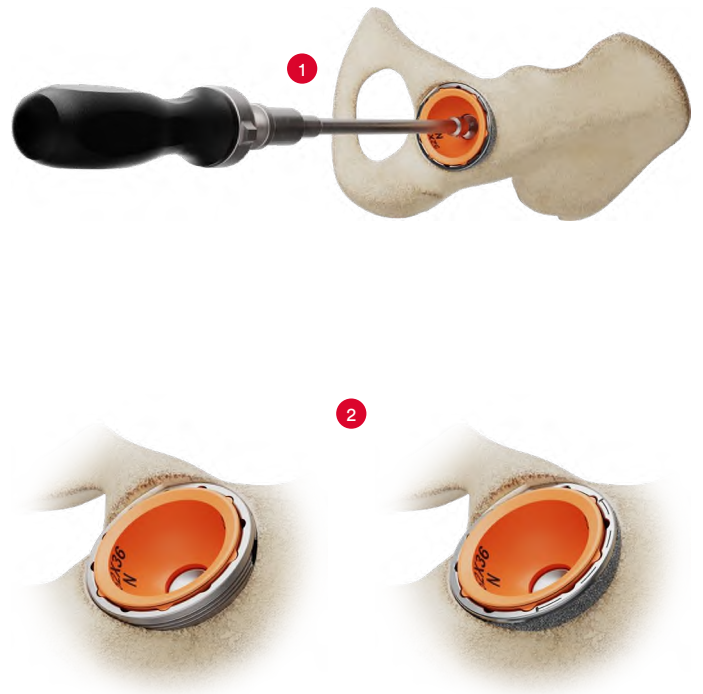
There are 3 types of trial liner; Neutral, Elevated Rim and Neutral +4.



Note: Place the appropriate sized trial liner into the trial shell (refer to table below) or implant shell.

Trial Shell Size (mm)	Trial Liner Size OD (mm)
43, 44	44
45, 46	46
47, 48	48
49, 50	50
51, 52	52
53, 54	54
55, 56, 57, 58	56-58
59, 60, 61, 62	60-62
63, 64, 65, 66	64-66

- ① Once trial shell or implant are placed in the acetabulum, align trial liner by hand and use either the variable driver shaft or fixed driver shaft to assemble the trial liner.
- ② Verify that the trial liner is fully seated by confirming anti-rotational devices (ARDs) align co-planar or below the trial shell or shell implant rim with your finger.



Reduce the joint and assess the stability and range of motion.

Loosen and remove trial liner.

Liner Implantation

Select liner implant

Select the liner implant size determined by planning and/or Trialing.

Insert Liner

■ **Note:** Irrigate and clean the shell prior to inserting the liner. Check the shell locking groove for debris.

■ **Note:** Region of increased head coverage centered about mark on elevated rim.

- ① Position the liner implant into the shell.
- ② Align the ARD's tabs with the corresponding scallops on the shell.
- ③ Select liner impactor tip that corresponds to the liner implant ID size
- ④ Thread the liner impactor tip onto the metal adaptor until secure.

Note: Liner impactor tips are only used for liner impaction.

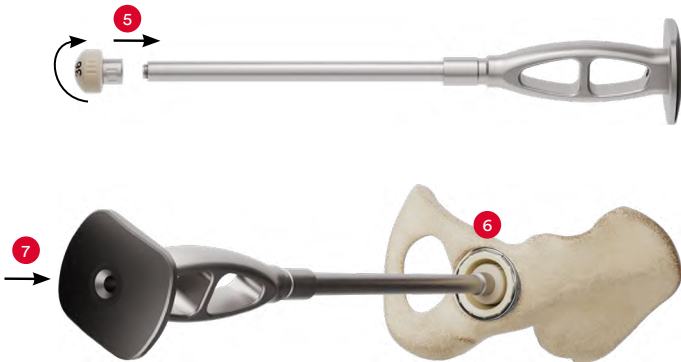
See Appendix III (p30) for further information on the liner impaction tip assembly/disassembly.



Insert Liner (continued)

Straight Impactor

- ⑤ Thread the liner impactor tip assembly onto the straight handle.
- ⑥ Position the liner impactor tip into the implant liner.
- ⑦ Impact the liner directly into the shell with multiple medium blows.



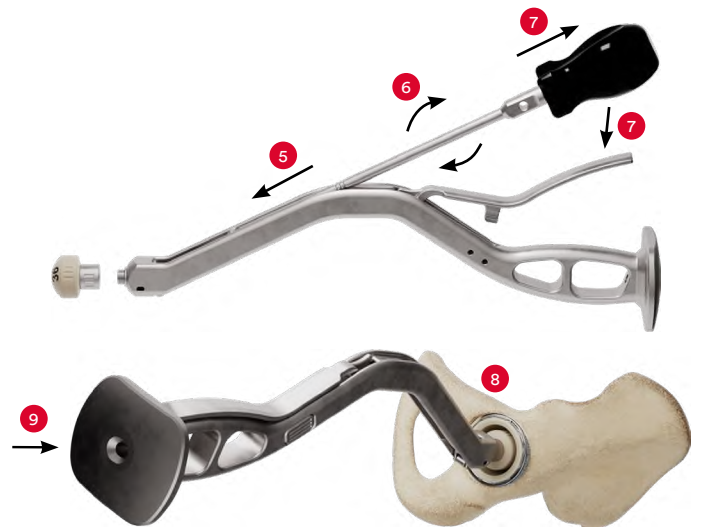
■ **Note:** Impact liner in line with insertion of shell.

■ **Note:** Only EMPHASYS specific Impactor Handles are compatible with Liner Impactor Tips.

■ **Note:** Seating of the liner is visually confirmed when the liner ARDs are flush with the face of the acetabular shell; however, the liner face will remain proud in relation to the shell face for all liner variants.

Curved Impactor

- ⑤ Slot the ball hex driver into the housing to engage the threaded tip of the impactor.
- ⑥ Rotate the hex driver clockwise to thread the liner impactor tip assembly onto the handle.
- ⑦ Remove the ball hex driver and engage the anti-rotation lever.
- ⑧ Position the liner impactor tip into the implant liner.
- ⑨ Impact the liner directly into the shell with multiple medium blows until the liner is fully seated.



Liner Extraction

If the surgeon desires to remove the liner, specific instrumentation has been designed to facilitate removal

■ **Note:** The Quick Connect Drill and Screw are for single use only.

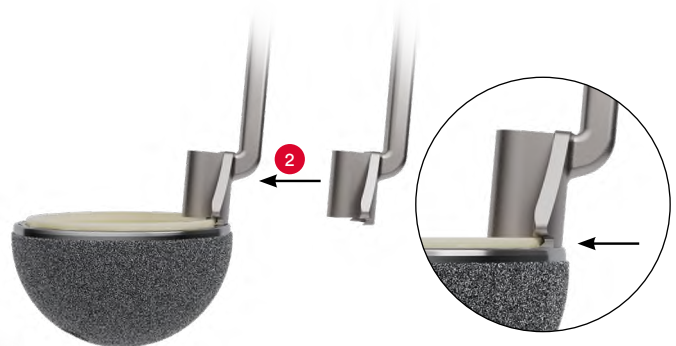
- ① Place the Quick Connect Drill into the Drive Shaft and then connect the shaft to power.
- ② Position the Liner Extractor Drill Guide up to the edge of the liner.

▲ **Important:** Care should be taken to avoid drilling into the unused fixation holes.

■ **Note:** For 3-Hole Shells, the location of the screw holes is identified by the shell rim laser marking. It is recommended when using 3-Hole Shells to position the guide so that it is completely outside of the screw hole positioning markings found on the shell.

■ **Note:** Positioning over the ARDs is not required.

■ **Note:** For best results, when using Elevated Rim liners, position the pilot drill away from the raised area.



Elevated Rim



3 Hole Shell marking indicates area to avoid when drilling

- 3 Insert the drill into the liner extractor drill guide and drill a pilot hole to sufficient depth to enable the liner extraction screw to engage the liner.

■ **Note:** The pilot hole should be drilled until initial contact is made with the shell to ensure that sufficient depth for the screw to engage on the poly occurs in all liner thicknesses.

■ **Note:** If there is difficulty with initial engagement of the drill into the liner, angle the guide arm at the beginning of the pilot drill step **A**. Once the pilot drill has engaged into the liner, return the guide arm to the normal angle **B**.

- 4 Remove the Quick Connect Drill and connect the Quick Connect Screw to the Drill Shaft

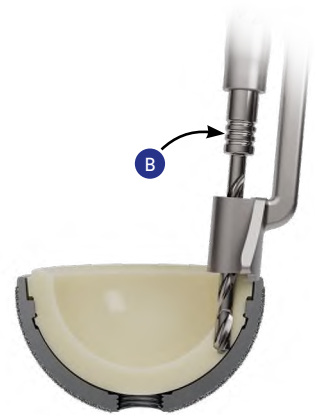
■ **Note:** After drilling of pilot hole remove any loose polyethylene debris from the liner BEFORE insertion of the extraction screw.



Guide foot remains parallel to face of the shell



Approach is angled initially



The guide foot is then returned parallel to the face of the shell



Quick Connect Screw and Drill Shaft

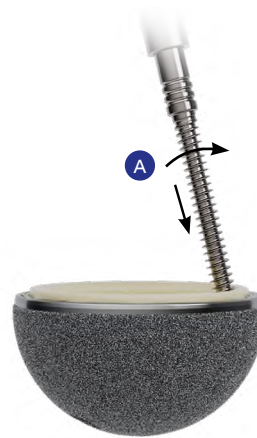
⑤ Slowly or manually drive the liner extraction screw into the pilot hole until the liner is removed.

■ **Note:** If there is difficulty with initial engagement of the liner extraction screw into the liner, angle the liner extraction screw into the beginning of the pilot hole **A**. Return the liner extraction screw to the normal angle and continue to drill the liner extraction screw into the pilot hole until the liner is removed **B**.

- If the liner is not removed, repeat steps 1-3 near to the first liner extraction screw, using a new drill bit and screw.
- Screws provided are non self-tapping type.
- Remove the liner from the wound space.

▲ **Important:** NEVER re-use an extracted liner implant.

▲ **Important:** Upon removal of the extracted liner implant, remove any polyethylene debris and assess the condition of the shell implant before continued use. If required, replace the shell implant.



Approach is angled initially



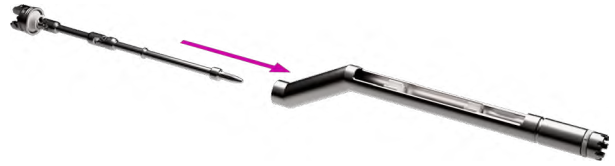
The screw is then returned to the path of the pilot hole

Appendix I

Reamer Driver Assembly



① Fully disassembled instrument.



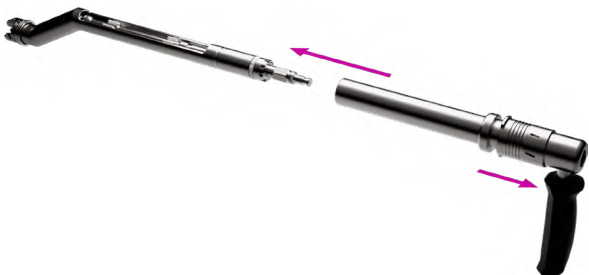
② Insert the UJ chain into the body.



③ Snap the shaft into the bearings.



④ Insert the motor shaft into the body.



⑤ Pull the sleeve backward to unlock and insert the handle of the instrument. Release the sleeve to lock.

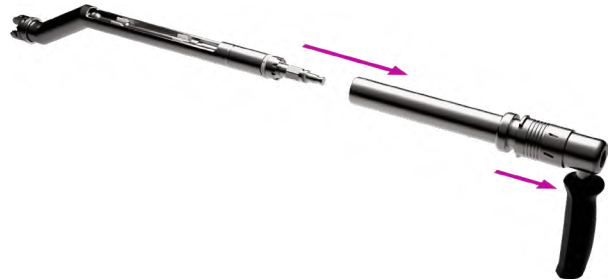


⑥ Fully assembled instrument.

Reamer Driver Disassembly



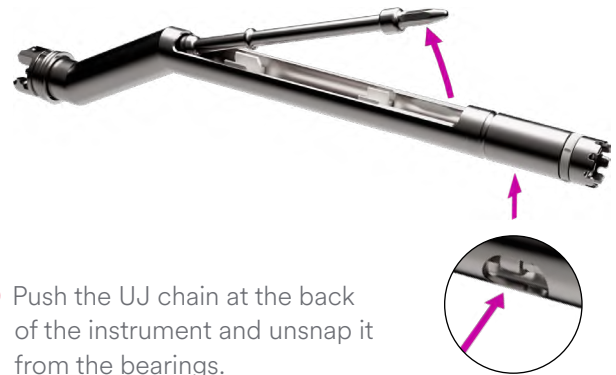
① Fully assembled instrument.



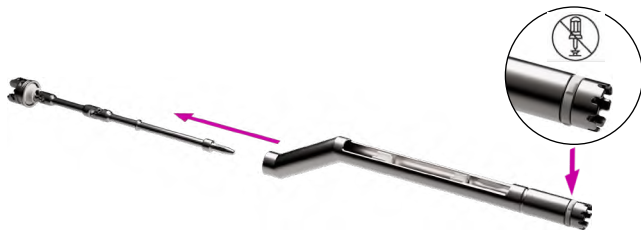
② Pull the sleeve backward to unlock and disassemble the handle.



③ Pull the motor shaft out of the body.



④ Push the UJ chain at the back of the instrument and unsnap it from the bearings.



⑤ Pull the UJ chain out of the body.
Do not disassemble the plastic ring.



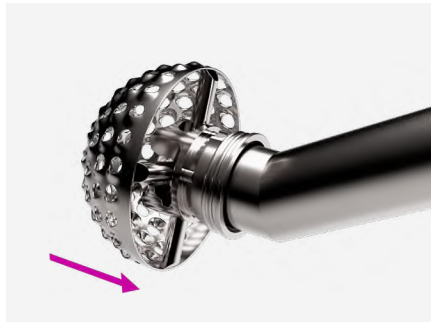
⑥ Fully disassembled instrument.
Cleaning and sterilization of the instrument shall be performed with the **fully disassembled** product.

Connection/Disconnection of Acetabular Reamers

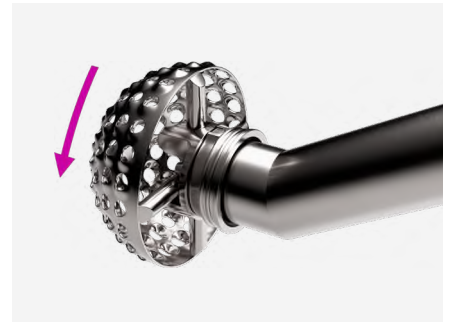
Connection of the Cross-back Reamer



① Locate the appropriate acetabular reamer size.

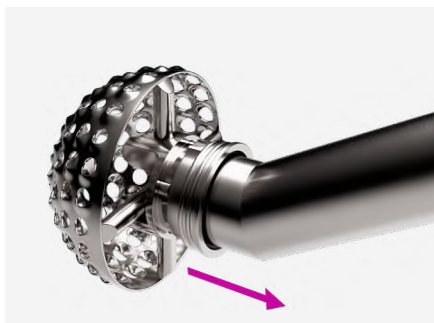


② Engage the lower bar into one opening of the reamer. The release sleeve will move backward.

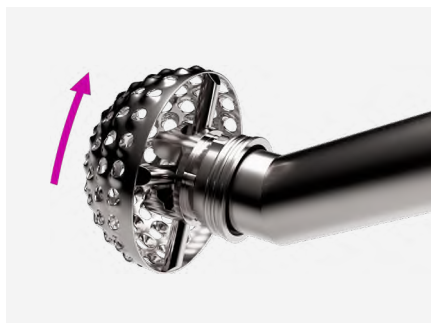


③ Turn the reamer counterclockwise until hearing “click”. The release sleeve shall move back into its initial position.

Dis-connection of the Cross-back Reamer



① Pull the release sleeve backward.



② Turn the reamer clockwise.

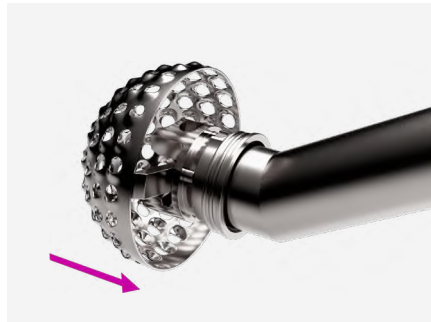


③ Pull the reamer away from the reamer head. The release sleeve will move back into its initial position.

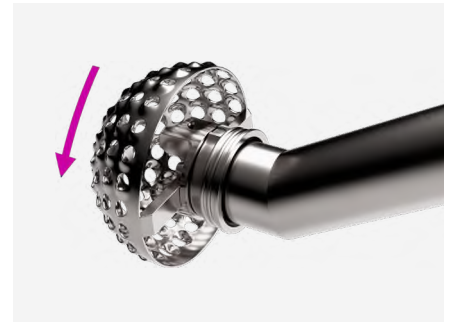
Connection of the QUICKSET Reamer



- ① Locate the appropriate acetabular reamer size.

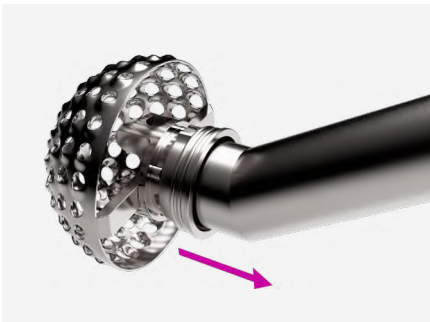


- ② Engage the bar into the rectangular opening of the reamer head, all the way in. The release sleeve will move backward.

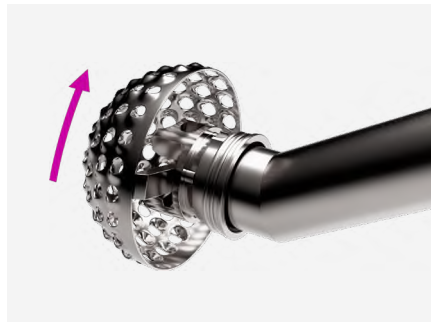


- ③ Turn the reamer counterclockwise until hearing “click”. The release sleeve shall move back into its initial position.

Dis-connection of the QUICKSET Reamer



- ① Pull the release sleeve backward.



- ② Turn the reamer clockwise.



- ③ Pull the reamer away from the reamer head. The release sleeve will move back into its initial position.

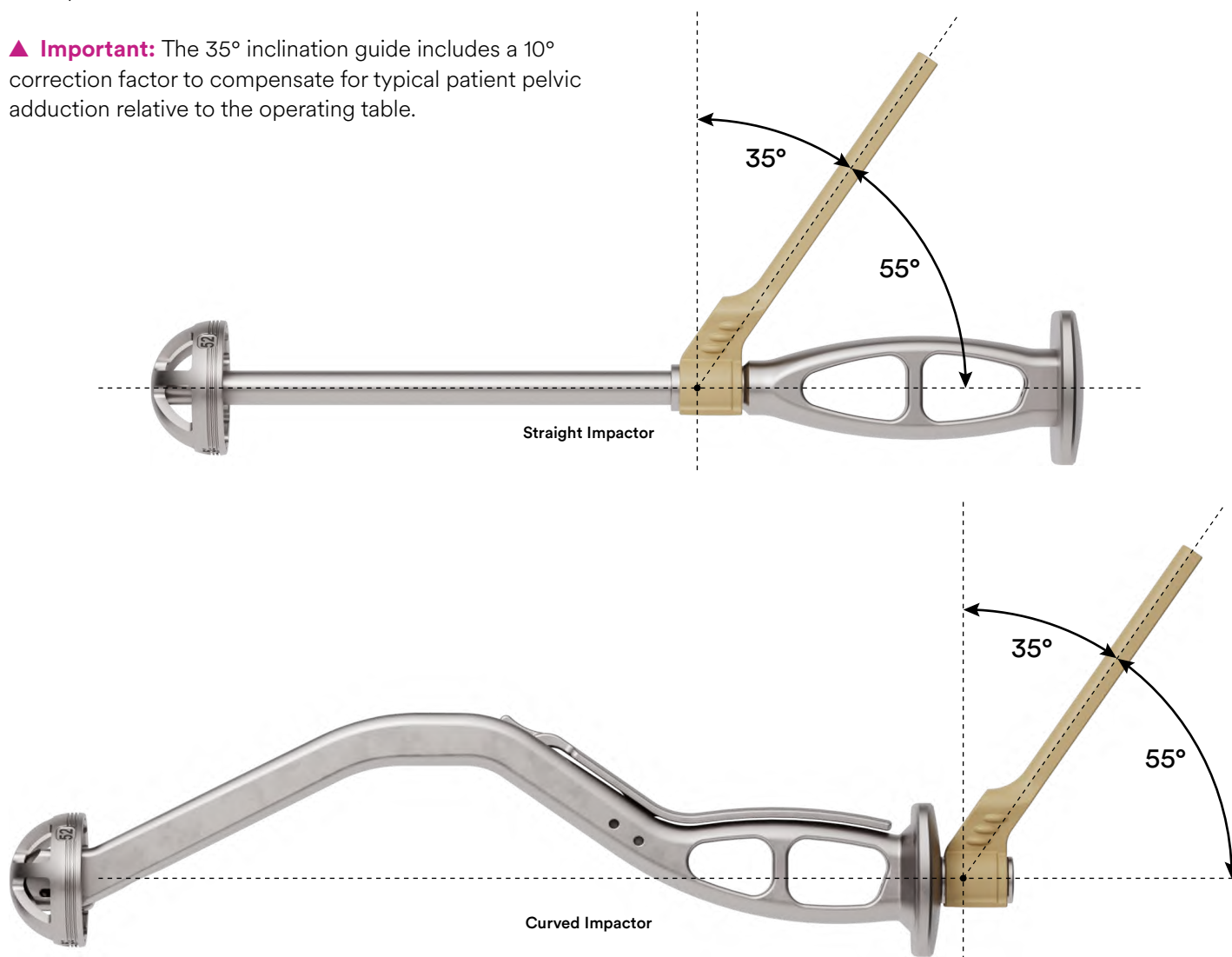
Appendix II

Inclination Guide Angle Check

If the inclination guide has been dropped or there is reason to believe it has sustained damage that might affect the indicated angle, the angle can be checked by comparing it to the image below:

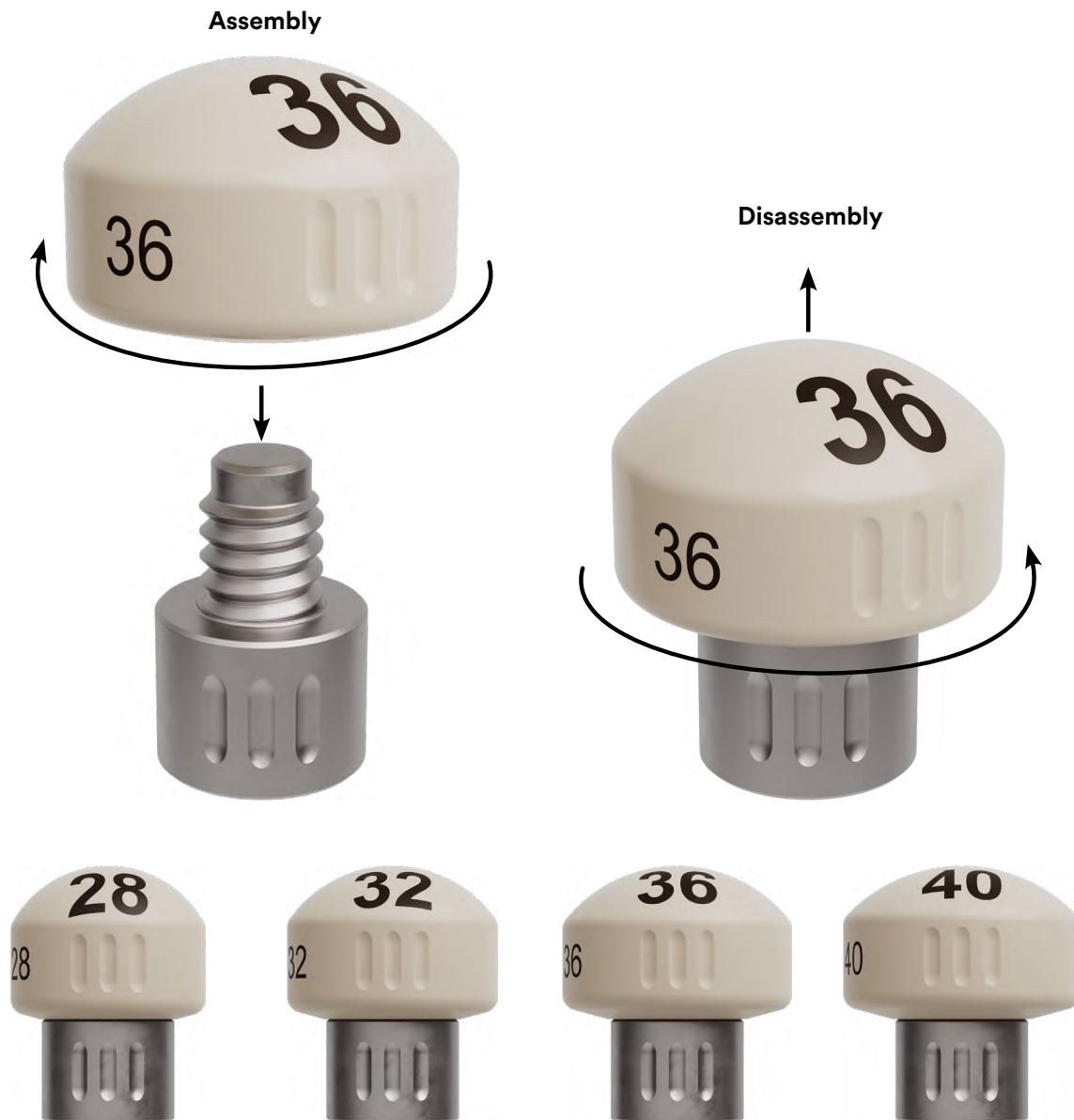
■ **Note:** If the inclination angle is different than pictured, the inclination guide will not provide an accurate reference for implant inclination and should not be used.

▲ **Important:** The 35° inclination guide includes a 10° correction factor to compensate for typical patient pelvic adduction relative to the operating table.



Appendix III

Liner Impactor Tip Assembly and Disassembly



■ **Note:** Size 40 mm liner impactor tip is available in the ancillary tray.

Appendix IV

Understanding Trial Component Selection

The EMPHASYS Hip Solutions trialing system uses two simple methods to make trialing easier to TEACH, LEARN, UNDERSTAND, and REMEMBER.

ID/OD Color Association

Color is used as the primary cue to direct you to the desired components. It helps to quickly distinguish size families and confirm device compatibility for trial heads and trial liners. When using the EMPHASYS Trials, matching bearing diameters will be color coded together, i.e. 32=Blue, 36=Orange, and so forth.

Once color is used to reduce the number of options, large component markings are the secondary cue to direct you to the desired component.

Note: Trial Component color is also depicted on package labels enabling a final confirmation and compatibility prior to opening the implant.



Trial Component Color Coding

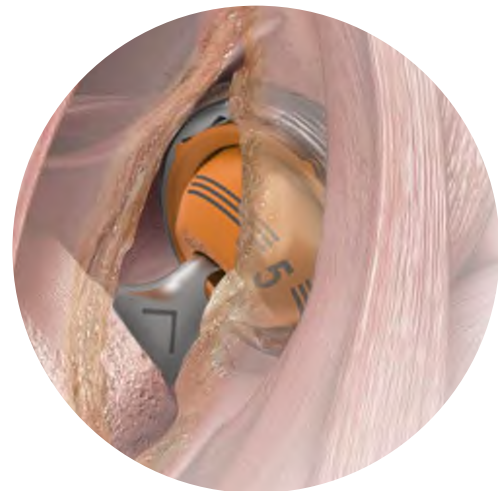
EMPHASYS Head and Neck – “More Lines = More Length”

The more lines you see on the trial components, the more length you have or are adding to the trialing construct.

Important: The number of lines depicted on the trial components are an abstract representation of tension; not a 1:1 of a known value.

The smallest offering has 1 line; each incremental device which follows adds a line to the Tension Cue. Per device, this tells how many deviations from the smallest available.

Being able to visualize which device is adding the length, and in what direction it’s being applied, may help you better understand how the construct is affecting joint restoration.



Vertical lines represent tension affecting **Offset**
Horizontal lines represent tension affecting **Limb Length**
Diagonal lines represent tension affecting **Neck Length**

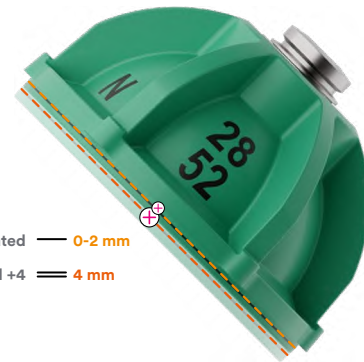
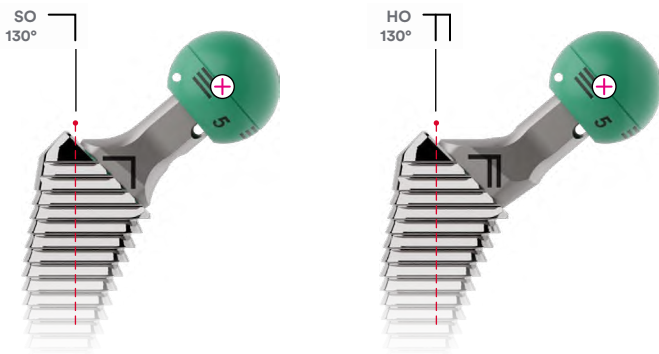
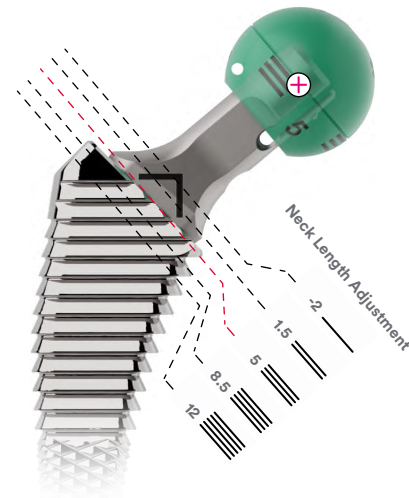
Component Effect on the Construct

EMPHASYS Trial Heads

Center of rotation is a fixed variable. Trial head selection alters length of the neck, in turn affecting length and offset of the limb.

More Lines means More Length has been added along the neck axis.

■ **Note:** EMPHASYS Hip Solutions is also compatible with the DePuy Synthes ARTICUL/EZE Femoral Head Trials, however, please note that the color-coding system used for the ARTICUL/EZE Head Trials denotes head length instead of bearing diameter.



EMPHASYS Trial Necks

Center of Rotation is a fixed variable; Trial Neck selection alters offset of the limb while not affecting limb length.

More Lines means More Length has been added, pushing the limb laterally.

EMPHASYS Trial Liners

Trial liner selection can alter Center of Rotation, in turn affecting length and offset of the limb.

More Lines means More Length has been added along the neck axis.

Trial Necks
Medial/Lateral difference

Trial Heads
Neck Length difference

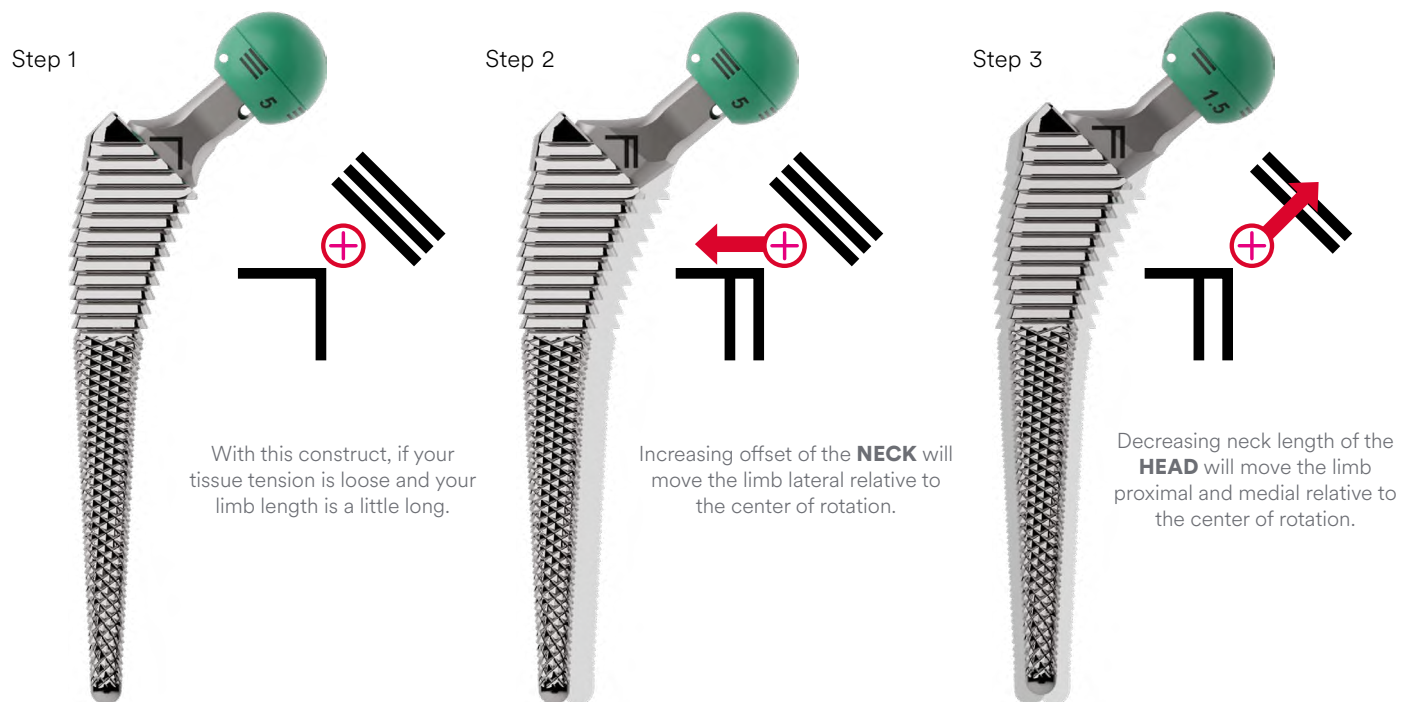
Neutral and Elevated Rim
0-2 mm lateralization; size dependent

Neutral +4
4 mm lateralization; full size range

Markings to Help Assess Construct Stability

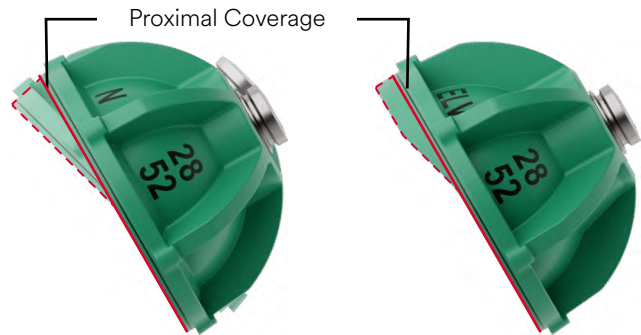
Assessing Leg Length and Tissue Tension

Example: “More Lines = More Length”



Assessing Shell Inclination

If the markings on the HEAD are not parallel with the rim of the Neutral Trial Liner, you may want to switch to an Augmented Liner.



Vertical Shell and Neutral Liner

Vertical Shell and Elevated Rim Liner



Assessing Combined Version

If the markings on the HEAD are not parallel with the rim of the Trial Liner, consider assessing version of SHELL or STEM.

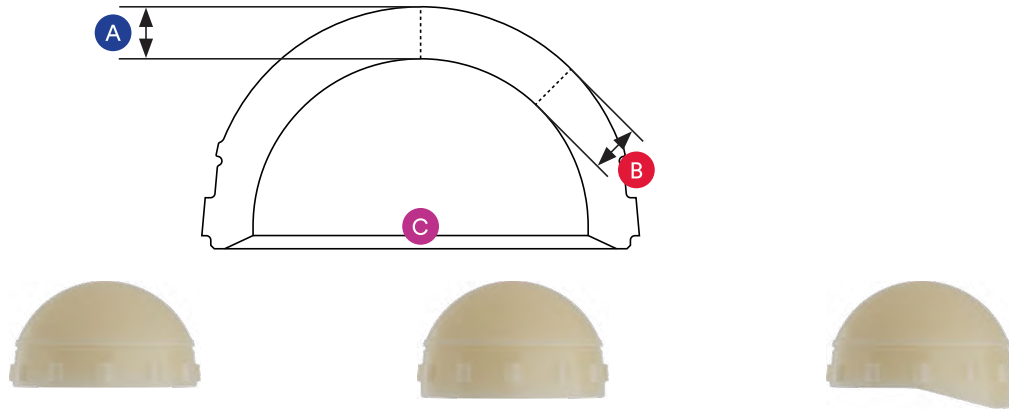
Anteversion

Retroversion

Neutral Version



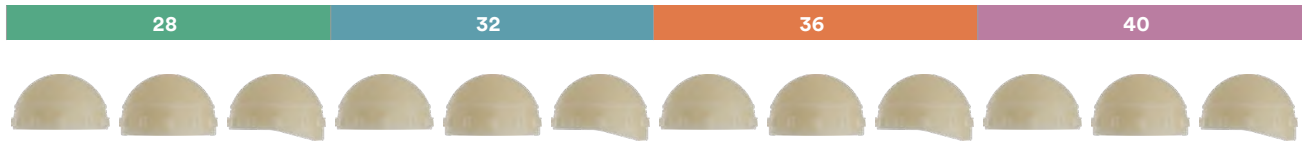
Technical Specifications



Liner ID	Shell Size (mm)	A Dome (mm)	B 45° (mm)	C Lateralization (mm)	A Dome (mm)	B 45° (mm)	C Lateralization (mm)	A Dome (mm)	B 45° (mm)	C Lateralization (mm)
		Neutral			+4 Neutral			Elevated		
28 mm	44	6.66	6.11	1.75	8.91	7.53	4.00	4.91	4.26	2.00
	46	7.66	7.11	1.75	9.91	8.54	4.00	5.91	5.27	2.00
	48	7.66	7.43	0.75	10.91	9.55	4.00	6.91	6.27	2.00
	50	8.66	8.43	0.75	11.91	10.56	4.00	7.91	7.27	2.00
	52	8.91	8.91	0.00	12.91	11.56	4.00	8.91	8.28	2.00
	54	9.91	9.91	0.00	13.91	12.57	4.00	9.91	9.28	2.00
	56	10.91	10.91	0.00	14.91	13.58	4.00	10.91	10.28	2.00
32 mm	44	5.16	4.43	2.25	6.91	5.53	4.00	4.91	4.27	2.00
	46	6.16	5.44	2.25	7.91	6.54	4.00	5.91	5.27	2.00
	48	6.66	6.11	1.75	8.91	7.55	4.00	6.91	6.28	2.00
	50	7.66	7.11	1.75	9.91	8.56	4.00	7.91	7.28	2.00
	52	7.66	7.43	0.75	10.91	9.56	4.00	8.91	8.28	2.00
	54	8.66	8.43	0.75	11.91	10.57	4.00	9.91	9.28	2.00
	56	8.91	8.91	0.00	12.91	11.58	4.00	10.91	10.28	2.00
36 mm	60	9.91	9.91	0.00	13.91	12.58	4.00	11.91	11.28	2.00
	64	11.91	11.91	0.00	15.91	14.59	4.00	13.91	13.29	2.00
	48	4.66	4.11	1.75	6.91	5.55	4.00	4.91	4.28	2.00
	50	5.66	5.11	1.75	7.91	6.56	4.00	5.91	5.28	2.00
	52	5.66	5.43	0.75	8.91	7.56	4.00	6.91	6.28	2.00
	54	6.66	6.43	0.75	9.91	8.57	4.00	7.91	7.28	2.00
	56	6.91	6.91	0.00	10.91	9.58	4.00	8.91	8.28	2.00
40 mm	60	7.91	7.91	0.00	11.91	10.58	4.00	9.91	9.28	2.00
	64	9.91	9.91	0.00	13.91	12.59	4.00	11.91	11.29	2.00
	52	4.66	4.11	1.75	6.91	5.56	4.00	4.91	4.28	2.00
	54	5.66	5.11	1.75	7.91	6.57	4.00	5.91	5.28	2.00
	56	5.66	5.43	0.75	8.91	7.58	4.00	6.91	6.28	2.00
	60	6.66	6.43	0.75	9.91	8.58	4.00	7.91	7.28	2.00
	64	7.91	7.91	0.00	11.91	10.59	4.00	9.91	9.29	2.00

Implants

Liners



Cup OD	Neutral	+4	Neutral	Elevated	Neutral	+4	Neutral	Elevated	Neutral	+4	Neutral	Elevated
44	472244028	472244428	472244228	472244032	472244432	472244232	N/A	N/A	N/A	N/A	N/A	N/A
46	472246028	472246428	472246228	472246032	472246432	472246232	N/A	N/A	N/A	N/A	N/A	N/A
48	472248028	472248428	472248228	472248032	472248432	472248232	472248036	472248436	472248236	N/A	N/A	N/A
50	472250028	472250428	472250228	472250032	472250432	472250232	472250036	472250436	472250236	N/A	N/A	N/A
52	472252028	472252428	472252228	472252032	472252432	472252232	472252036	472252436	472252236	472252040	472252440	472252240
54	472254028	472254428	472254228	472254032	472254432	472254232	472254036	472254436	472254236	472254040	472254440	472254240
56	472256028	472256428	472256228	472256032	472256432	472256232	472256036	472256436	472256236	472256040	472256440	472256240
58												
60	N/A	N/A	N/A	472260032	472260432	472260232	472260036	472260436	472260236	472260040	472260440	472260240
62												
64	N/A	N/A	N/A	472264032	472264432	472264232	472264036	472264436	472264236	472264040	472264440	472264240
66												

Shells

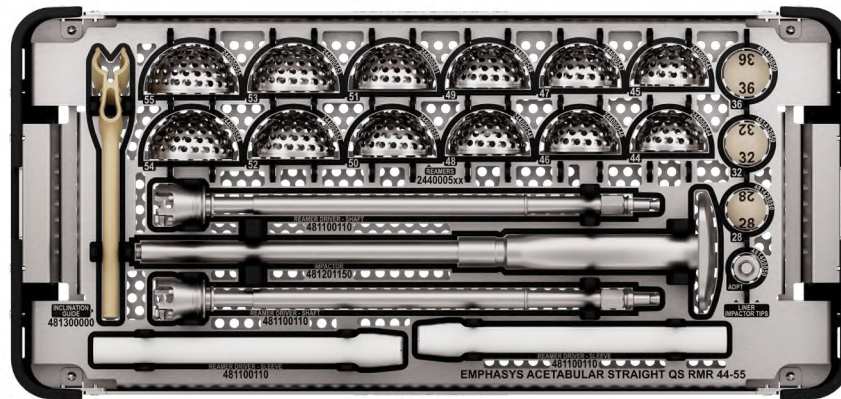


Cup OD	No-Hole	3-Hole	Multi-Hole
44	471044000	471044300	471044900
46	471046000	471046300	471046900
48	471048000	471048300	471048900
50	471050000	471050300	471050900
52	471052000	471052300	471052900
54	471054000	471054300	471054900
56	471056000	471056300	471056900
58	471058000	471058300	471058900
60	471060000	471060300	471060900
62	471062000	471062300	471062900
64	471064000	471064300	471064900
66	471066000	471066300	471066900

Instruments

EMPHASYS Acetabular Straight Instruments Offering

STRAIGHT OFFERING **QUICKSET** 1 MM REAMER OPTION

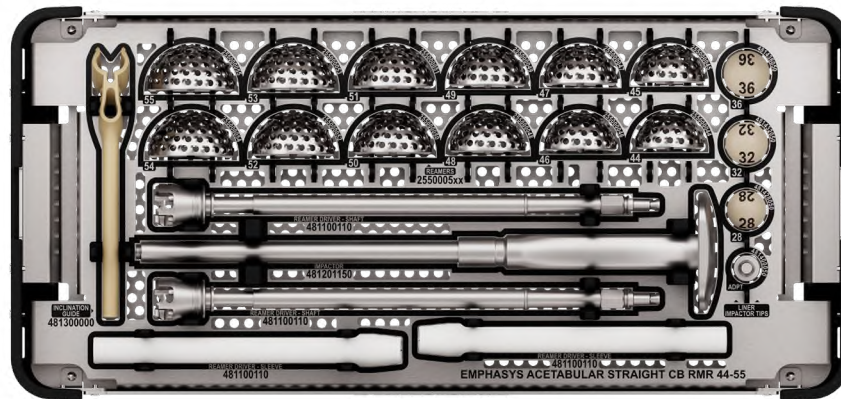


EMPHASYS Acetabular Straight Instruments Core Tray

4800-50-040	EMSYS ACE AL STR QS RMR 44-55
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
2440-00-544	QUICKSET ACETABULAR GRATER HEAD 44 MM
2440-00-545	QUICKSET ACETABULAR GRATER HEAD 45 MM
2440-00-546	QUICKSET ACETABULAR GRATER HEAD 46 MM
2440-00-547	QUICKSET ACETABULAR GRATER HEAD 47 MM
2440-00-548	QUICKSET ACETABULAR GRATER HEAD 48 MM
2440-00-549	QUICKSET ACETABULAR GRATER HEAD 49 MM
2440-00-550	QUICKSET ACETABULAR GRATER HEAD 50 MM
2440-00-551	QUICKSET ACETABULAR GRATER HEAD 51 MM
2440-00-552	QUICKSET ACETABULAR GRATER HEAD 52 MM
2440-00-553	QUICKSET ACETABULAR GRATER HEAD 53 MM
2440-00-554	QUICKSET ACETABULAR GRATER HEAD 54 MM
2440-00-555	QUICKSET ACETABULAR GRATER HEAD 55 MM
4811-00-110	STRAIGHT DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4812-01-150	EMPHASYS STRAIGHT ACETABULAR IMPACTOR
4813-00-000	EMPHASYS INCLINATION GUIDE
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR

EMPHASYS Acetabular Straight Instruments Offering

STRAIGHT OFFERING CROSSBACK 1 MM REAMER OPTION



EMPHASYS Acetabular Straight Instruments Core Tray

4800-50-050	EMSYS ACE AL STR CB RMR 44-55
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
2550-00-044	CROSSBACK ACETABULAR REAMER 44 MM
2550-00-045	CROSSBACK ACETABULAR REAMER 45 MM
2550-00-046	CROSSBACK ACETABULAR REAMER 46 MM
2550-00-047	CROSSBACK ACETABULAR REAMER 47 MM
2550-00-048	CROSSBACK ACETABULAR REAMER 48 MM
2550-00-049	CROSSBACK ACETABULAR REAMER 49 MM
2550-00-050	CROSSBACK ACETABULAR REAMER 50 MM
2550-00-051	CROSSBACK ACETABULAR REAMER 51 MM
2550-00-052	CROSSBACK ACETABULAR REAMER 52 MM
2550-00-053	CROSSBACK ACETABULAR REAMER 53 MM
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2550-00-055	CROSSBACK ACETABULAR REAMER 55 MM
4811-00-110	STRAIGHT DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4812-01-150	EMPHASYS STRAIGHT ACETABULAR IMPACTOR
4813-00-000	EMPHASYS INCLINATION GUIDE
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR

EMPHASYS Acetabular Straight Instruments Offering

STRAIGHT OFFERING **QUICKSET** ODD REAMER OPTION

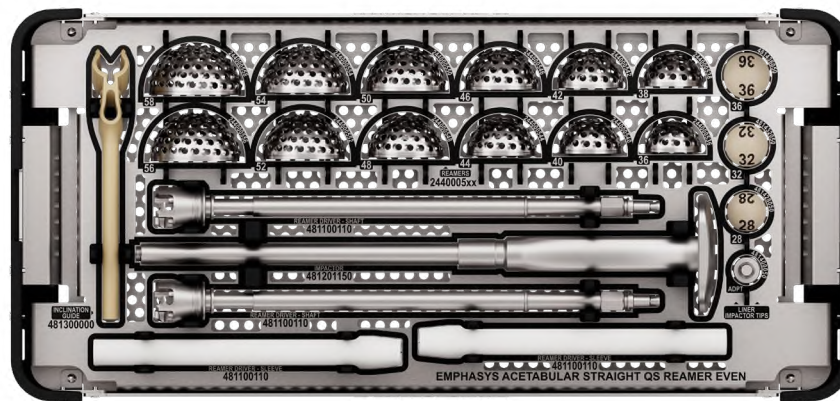


EMPHASYS Acetabular Straight Instruments Core Tray

4800-50-020	EMSYS ACE AL STR QS RMR ODD
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
2440-00-537	QUICKSET ACETABULAR GRATER HEAD 37 MM
2440-00-539	QUICKSET ACETABULAR GRATER HEAD 39 MM
2440-00-541	QUICKSET ACETABULAR GRATER HEAD 41 MM
2440-00-543	QUICKSET ACETABULAR GRATER HEAD 43 MM
2440-00-545	QUICKSET ACETABULAR GRATER HEAD 45 MM
2440-00-547	QUICKSET ACETABULAR GRATER HEAD 47 MM
2440-00-549	QUICKSET ACETABULAR GRATER HEAD 49 MM
2440-00-551	QUICKSET ACETABULAR GRATER HEAD 51 MM
2440-00-553	QUICKSET ACETABULAR GRATER HEAD 53 MM
2440-00-555	QUICKSET ACETABULAR GRATER HEAD 55 MM
2440-00-557	QUICKSET ACETABULAR GRATER HEAD 57 MM
2440-00-559	QUICKSET ACETABULAR GRATER HEAD 59 MM
4811-00-110	STRAIGHT DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4812-01-150	EMPHASYS STRAIGHT ACETABULAR IMPACTOR
4813-00-000	EMPHASYS INCLINATION GUIDE
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR

EMPHASYS Acetabular Straight Instruments Offering

STRAIGHT OFFERING **QUICKSET** EVEN REAMER OPTION

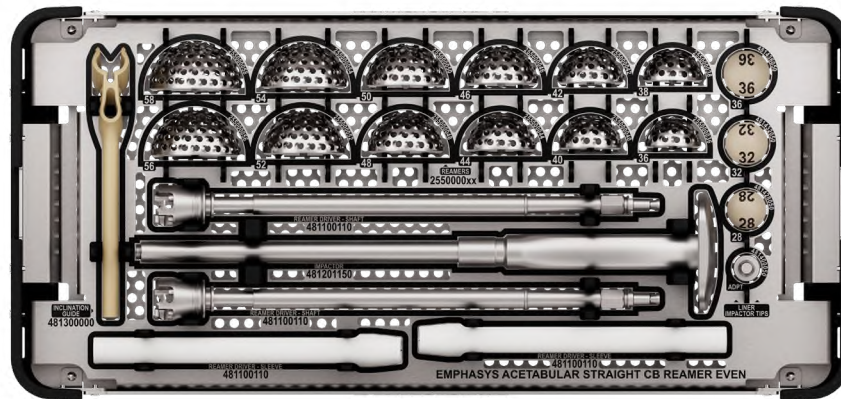


EMPHASYS Acetabular Straight Instruments Core Tray

4800-50-010	EMSYS ACE AL STR QS RMR EVEN
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
2440-00-536	QUICKSET ACETABULAR GRATER HEAD 36 MM
2440-00-538	QUICKSET ACETABULAR GRATER HEAD 38 MM
2440-00-540	QUICKSET ACETABULAR GRATER HEAD 40 MM
2440-00-542	QUICKSET ACETABULAR GRATER HEAD 42 MM
2440-00-544	QUICKSET ACETABULAR GRATER HEAD 44 MM
2440-00-546	QUICKSET ACETABULAR GRATER HEAD 46 MM
2440-00-548	QUICKSET ACETABULAR GRATER HEAD 48 MM
2440-00-550	QUICKSET ACETABULAR GRATER HEAD 50 MM
2440-00-552	QUICKSET ACETABULAR GRATER HEAD 52 MM
2440-00-554	QUICKSET ACETABULAR GRATER HEAD 54 MM
2440-00-556	QUICKSET ACETABULAR GRATER HEAD 56 MM
2440-00-558	QUICKSET ACETABULAR GRATER HEAD 58 MM
4811-00-110	STRAIGHT DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4812-01-150	EMPHASYS STRAIGHT ACETABULAR IMPACTOR
4813-00-000	EMPHASYS INCLINATION GUIDE
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR

EMPHASYS Acetabular Straight Instruments Offering

STRAIGHT OFFERING CROSSBACK EVEN REAMER OPTION

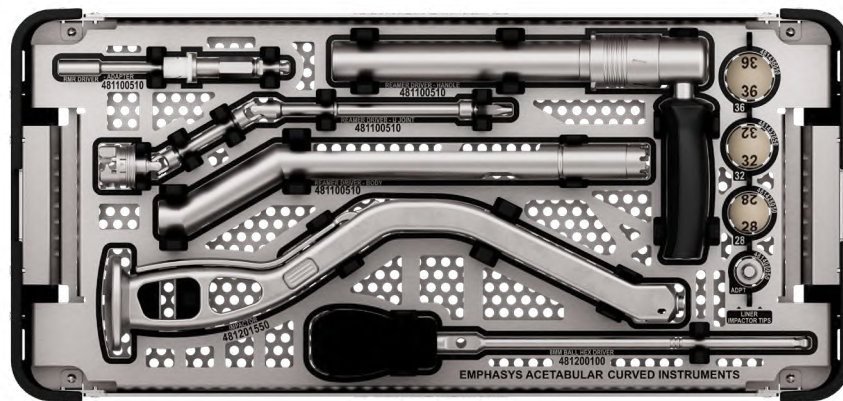


EMPHASYS Acetabular Straight Instruments Core Tray

4800-50-000	EMSYS ACE AL STR CB RMR EVEN
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
2550-00-036	CROSSBACK ACETABULAR REAMER 36 MM
2550-00-038	CROSSBACK ACETABULAR REAMER 38 MM
2550-00-040	CROSSBACK ACETABULAR REAMER 40 MM
2550-00-042	CROSSBACK ACETABULAR REAMER 42 MM
2550-00-044	CROSSBACK ACETABULAR REAMER 44 MM
2550-00-046	CROSSBACK ACETABULAR REAMER 46 MM
2550-00-048	CROSSBACK ACETABULAR REAMER 48 MM
2550-00-050	CROSSBACK ACETABULAR REAMER 50 MM
2550-00-052	CROSSBACK ACETABULAR REAMER 52 MM
2550-00-054	CROSSBACK ACETABULAR REAMER 54 MM
2550-00-056	CROSSBACK ACETABULAR REAMER 56 MM
2550-00-058	CROSSBACK ACETABULAR REAMER 58 MM
4811-00-110	STRAIGHT DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4812-01-150	EMPHASYS STRAIGHT ACETABULAR IMPACTOR
4813-00-000	EMPHASYS INCLINATION GUIDE
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR

EMPHASYS Acetabular Curved Instruments Offering

CURVED OFFERING



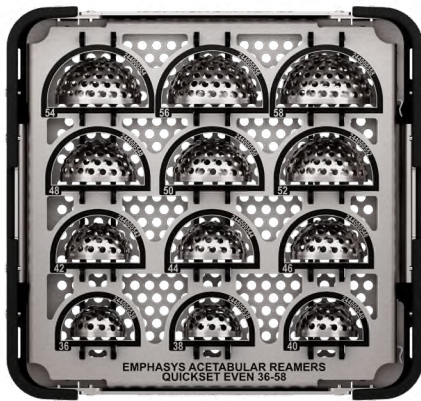
EMPHASYS Acetabular Curved Instruments Tray

4800-20-010	EMPHASYS ACETABULAR ALUMINUM CURVED INSTRUMENT TRAY
4800-00-100	DEPUY SYNTHES ALUMINUM FULL SIZE MID HEIGHT CASE
4800-10-000	DEPUY SYNTHES ALUMINUM FULL SIZE LID
4811-00-510	30 DEGREE OFFSET DEPUY AO/HUDSON ACETABULAR REAMER DRIVER
4814-28-050	EMPHASYS 28 MM LINER IMPACTOR TIP
4814-32-050	EMPHASYS 32 MM LINER IMPACTOR TIP
4814-36-050	EMPHASYS 36 MM LINER IMPACTOR TIP
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR
4812-01-550	EMPHASYS CURVED ACETABULAR IMPACTOR
4812-00-100	DEPUY SYNTHES 8 MM BALL HEX DRIVER

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Even 36 mm to 58 mm Quickset Reamer Caddy

4800-00-500	EMPHASYS ACETABULAR ALUMINUM EVEN 36 MM TO 58 MM QUICKSET REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-536	QUICKSET ACETABULAR GRATER HEAD 36 MM
2440-00-538	QUICKSET ACETABULAR GRATER HEAD 38 MM
2440-00-540	QUICKSET ACETABULAR GRATER HEAD 40 MM
2440-00-542	QUICKSET ACETABULAR GRATER HEAD 42 MM
2440-00-544	QUICKSET ACETABULAR GRATER HEAD 44 MM
2440-00-546	QUICKSET ACETABULAR GRATER HEAD 46 MM
2440-00-548	QUICKSET ACETABULAR GRATER HEAD 48 MM
2440-00-550	QUICKSET ACETABULAR GRATER HEAD 50 MM
2440-00-552	QUICKSET ACETABULAR GRATER HEAD 52 MM
2440-00-554	QUICKSET ACETABULAR GRATER HEAD 54 MM
2440-00-556	QUICKSET ACETABULAR GRATER HEAD 56 MM
2440-00-558	QUICKSET ACETABULAR GRATER HEAD 58 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Even 36 mm to 58 mm Crossback Reamer Caddy

4800-00-530	EMPHASYS ACETABULAR ALUMINUM EVEN 36 MM TO 58 MM CROSSBACK REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-036	CROSSBACK ACETABULAR REAMER 36 MM
2550-00-038	CROSSBACK ACETABULAR REAMER 38 MM
2550-00-040	CROSSBACK ACETABULAR REAMER 40 MM
2550-00-042	CROSSBACK ACETABULAR REAMER 42 MM
2550-00-044	CROSSBACK ACETABULAR REAMER 44 MM
2550-00-046	CROSSBACK ACETABULAR REAMER 46 MM
2550-00-048	CROSSBACK ACETABULAR REAMER 48 MM
2550-00-050	CROSSBACK ACETABULAR REAMER 50 MM
2550-00-052	CROSSBACK ACETABULAR REAMER 52 MM
2550-00-054	CROSSBACK ACETABULAR REAMER 54 MM
2550-00-056	CROSSBACK ACETABULAR REAMER 56 MM
2550-00-058	CROSSBACK ACETABULAR REAMER 58 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Odd 37 mm to 59 mm Quickset Reamer Caddy

4800-00-510	EMSYS ACE AL QS RMR ODD 37-59
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-537	QUICKSET ACETABULAR GRATER HEAD 37 MM
2440-00-539	QUICKSET ACETABULAR GRATER HEAD 39 MM
2440-00-541	QUICKSET ACETABULAR GRATER HEAD 41 MM
2440-00-543	QUICKSET ACETABULAR GRATER HEAD 43 MM
2440-00-545	QUICKSET ACETABULAR GRATER HEAD 45 MM
2440-00-547	QUICKSET ACETABULAR GRATER HEAD 47 MM
2440-00-549	QUICKSET ACETABULAR GRATER HEAD 49 MM
2440-00-551	QUICKSET ACETABULAR GRATER HEAD 51 MM
2440-00-553	QUICKSET ACETABULAR GRATER HEAD 53 MM
2440-00-555	QUICKSET ACETABULAR GRATER HEAD 55 MM
2440-00-557	QUICKSET ACETABULAR GRATER HEAD 57 MM
2440-00-559	QUICKSET ACETABULAR GRATER HEAD 59 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Odd 37 mm to 59 mm Crossback Reamer Caddy

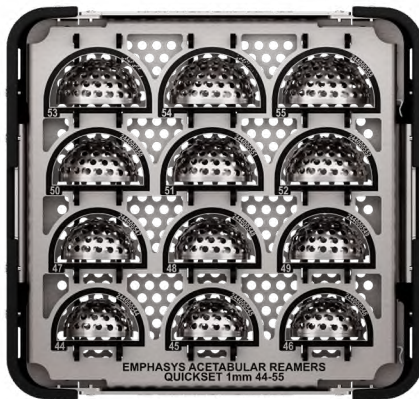
4800-00-540	EMPHASYS ACETABULAR ALUMINUM ODD 37 MM TO 59 MM CROSSBACK REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-037	CROSSBACK ACETABULAR REAMER 37 MM
2550-00-039	CROSSBACK ACETABULAR REAMER 39 MM
2550-00-041	CROSSBACK ACETABULAR REAMER 41 MM
2550-00-043	CROSSBACK ACETABULAR REAMER 43 MM
2550-00-045	CROSSBACK ACETABULAR REAMER 45 MM
2550-00-047	CROSSBACK ACETABULAR REAMER 47 MM
2550-00-049	CROSSBACK ACETABULAR REAMER 49 MM
2550-00-051	CROSSBACK ACETABULAR REAMER 51 MM
2550-00-053	CROSSBACK ACETABULAR REAMER 53 MM
2550-00-055	CROSSBACK ACETABULAR REAMER 55 MM
2550-00-057	CROSSBACK ACETABULAR REAMER 57 MM
2550-00-059	CROSSBACK ACETABULAR REAMER 59 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum 1 mm 44 mm to 55 mm Quickset Reamer Caddy

4800-00-515	EMSYS ACE AL QS RMR 1 MM 44-55
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-544	QUICKSET ACE GRATER HEAD 44 MM
2440-00-545	QUICKSET ACE GRATER HEAD 45 MM
2440-00-546	QUICKSET ACE GRATER HEAD 46 MM
2440-00-547	QUICKSET ACE GRATER HEAD 47 MM
2440-00-548	QUICKSET ACE GRATER HEAD 48 MM
2440-00-549	QUICKSET ACE GRATER HEAD 49 MM
2440-00-550	QUICKSET ACE GRATER HEAD 50 MM
2440-00-551	QUICKSET ACE GRATER HEAD 51 MM
2440-00-552	QUICKSET ACE GRATER HEAD 52 MM
2440-00-553	QUICKSET ACE GRATER HEAD 53 MM
2440-00-554	QUICKSET ACE GRATER HEAD 54 MM
2440-00-555	QUICKSET ACE GRATER HEAD 55 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum 1 mm 44 mm to 55 mm Crossback Reamer Caddy

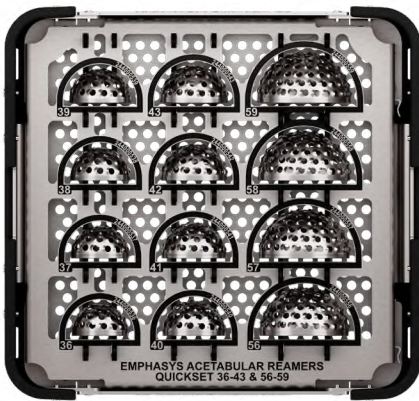
4800-00-545	EMSYS ACE AL CB RMR 1 MM 44-55
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-044	CROSSBACK ACETABULAR REAMER 44 MM
2550-00-045	CROSSBACK ACETABULAR REAMER 45 MM
2550-00-046	CROSSBACK ACETABULAR REAMER 46 MM
2550-00-047	CROSSBACK ACETABULAR REAMER 47 MM
2550-00-048	CROSSBACK ACETABULAR REAMER 48 MM
2550-00-049	CROSSBACK ACETABULAR REAMER 49 MM
2550-00-050	CROSSBACK ACETABULAR REAMER 50 MM
2550-00-051	CROSSBACK ACETABULAR REAMER 51 MM
2550-00-052	CROSSBACK ACETABULAR REAMER 52 MM
2550-00-053	CROSSBACK ACETABULAR REAMER 53 MM
2550-00-054	CROSSBACK ACETABULAR REAMER 54 MM
2550-00-055	CROSSBACK ACETABULAR REAMER 55 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Reamers Quickset 36-43 & 56-59

4800-00-520	EMPHASYS ACETABULAR ALUMINUM EXPANDED (1 MM) QUICKSET REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-536	QUICKSET ACETABULAR GRATER HEAD 36 MM
2440-00-537	QUICKSET ACETABULAR GRATER HEAD 37 MM
2440-00-538	QUICKSET ACETABULAR GRATER HEAD 38 MM
2440-00-539	QUICKSET ACETABULAR GRATER HEAD 39 MM
2440-00-540	QUICKSET ACETABULAR GRATER HEAD 40 MM
2440-00-541	QUICKSET ACETABULAR GRATER HEAD 41 MM
2440-00-542	QUICKSET ACETABULAR GRATER HEAD 42 MM
2440-00-543	QUICKSET ACETABULAR GRATER HEAD 43 MM
2440-00-556	QUICKSET ACETABULAR GRATER HEAD 56 MM
2440-00-557	QUICKSET ACETABULAR GRATER HEAD 57 MM
2440-00-558	QUICKSET ACETABULAR GRATER HEAD 58 MM
2440-00-559	QUICKSET ACETABULAR GRATER HEAD 59 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Reamers CrossBack 36-43 & 56-59

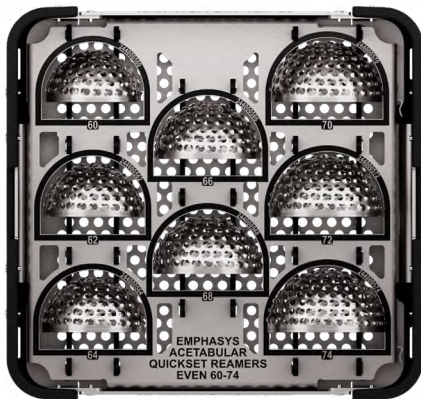
4800-00-550	EMPHASYS ACETABULAR ALUMINUM EXPANDED (1 MM) CROSSBACK REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-036	CROSSBACK ACETABULAR REAMER 36 MM
2550-00-037	CROSSBACK ACETABULAR REAMER 37 MM
2550-00-038	CROSSBACK ACETABULAR REAMER 38 MM
2550-00-039	CROSSBACK ACETABULAR REAMER 39 MM
2550-00-040	CROSSBACK ACETABULAR REAMER 40 MM
2550-00-041	CROSSBACK ACETABULAR REAMER 41 MM
2550-00-042	CROSSBACK ACETABULAR REAMER 42 MM
2550-00-043	CROSSBACK ACETABULAR REAMER 43 MM
2550-00-056	CROSSBACK ACETABULAR REAMER 56 MM
2550-00-057	CROSSBACK ACETABULAR REAMER 57 MM
2550-00-058	CROSSBACK ACETABULAR REAMER 58 MM
2550-00-059	CROSSBACK ACETABULAR REAMER 59 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Even 60 mm to 74 mm Quickset Reamer Caddy

4800-00-560	EMPHASYS ACETABULAR ALUMINUM EVEN 60 MM TO 74 MM QUICKSET REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-560	QUICKSET ACETABULAR GRATER HEAD 60 MM
2440-00-562	QUICKSET ACETABULAR GRATER HEAD 62 MM
2440-00-564	QUICKSET ACETABULAR GRATER HEAD 64 MM
2440-00-566	QUICKSET ACETABULAR GRATER HEAD 66 MM
2440-00-568	QUICKSET ACETABULAR GRATER HEAD 68 MM
2440-00-570	QUICKSET ACETABULAR GRATER HEAD 70 MM
2440-00-572	QUICKSET ACETABULAR GRATER HEAD 72 MM
2440-00-574	QUICKSET ACETABULAR GRATER HEAD 74 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Even 60 mm to 74 mm Crossback Reamer Caddy

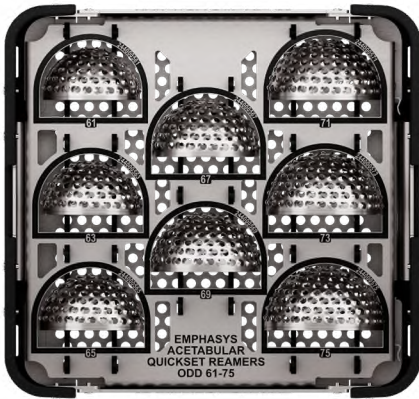
4800-00-580	EMPHASYS ACETABULAR ALUMINUM EVEN 60 MM TO 74 MM CROSSBACK REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-060	CROSSBACK ACETABULAR REAMER 60 MM
2550-00-062	CROSSBACK ACETABULAR REAMER 62 MM
2550-00-064	CROSSBACK ACETABULAR REAMER 64 MM
2550-00-066	CROSSBACK ACETABULAR REAMER 66 MM
2550-00-068	CROSSBACK ACETABULAR REAMER 68 MM
2550-00-070	CROSSBACK ACETABULAR REAMER 70 MM
2550-00-072	CROSSBACK ACETABULAR REAMER 72 MM
2550-00-074	CROSSBACK ACETABULAR REAMER 74 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Odd 61 mm to 75 mm Quickset Reamer Caddy

4800-00-570	EMPHASYS ACETABULAR ALUMINUM ODD 61 MM TO 75 MM QUICKSET REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-561	QUICKSET ACETABULAR GRATER HEAD 61 MM
2440-00-563	QUICKSET ACETABULAR GRATER HEAD 63 MM
2440-00-565	QUICKSET ACETABULAR GRATER HEAD 65 MM
2440-00-567	QUICKSET ACETABULAR GRATER HEAD 67 MM
2440-00-569	QUICKSET ACETABULAR GRATER HEAD 69 MM
2440-00-571	QUICKSET ACETABULAR GRATER HEAD 71 MM
2440-00-573	QUICKSET ACETABULAR GRATER HEAD 73 MM
2440-00-575	QUICKSET ACETABULAR GRATER HEAD 75 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum Odd 61 mm to 75 mm Crossback Reamer Caddy

4800-00-590	EMPHASYS ACETABULAR ALUMINUM ODD 61 MM TO 75 MM CROSSBACK REAMER CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-061	CROSSBACK ACETABULAR REAMER 61 MM
2550-00-063	CROSSBACK ACETABULAR REAMER 63 MM
2550-00-065	CROSSBACK ACETABULAR REAMER 65 MM
2550-00-067	CROSSBACK ACETABULAR REAMER 67 MM
2550-00-069	CROSSBACK ACETABULAR REAMER 69 MM
2550-00-071	CROSSBACK ACETABULAR REAMER 71 MM
2550-00-073	CROSSBACK ACETABULAR REAMER 73 MM
2550-00-075	CROSSBACK ACETABULAR REAMER 75 MM

EMPHASYS Acetabular Reamers

QUICKSET

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum 1 mm 60 mm to 67 mm Quickset Reamer Caddy

4800-00-565	EMSYS ACE AL QS RMR 1 MM 60-67
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2440-00-560	QUICKSET ACETABULAR GRATER HEAD 60 MM
2440-00-561	QUICKSET ACETABULAR GRATER HEAD 61 MM
2440-00-562	QUICKSET ACETABULAR GRATER HEAD 62 MM
2440-00-563	QUICKSET ACETABULAR GRATER HEAD 63 MM
2440-00-564	QUICKSET ACETABULAR GRATER HEAD 64 MM
2440-00-565	QUICKSET ACETABULAR GRATER HEAD 65 MM
2440-00-566	QUICKSET ACETABULAR GRATER HEAD 66 MM
2440-00-567	QUICKSET ACETABULAR GRATER HEAD 67 MM

CROSSBACK

ADDITIONAL REAMERS



EMPHASYS Acetabular Aluminum 1 mm 60 mm to 67 mm Crossback Reamer Caddy

4800-00-505	EMSYS ACE AL CB RMR 1 MM 60-67
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2550-00-060	CROSSBACK ACETABULAR REAMER 60 MM
2550-00-061	CROSSBACK ACETABULAR REAMER 61 MM
2550-00-062	CROSSBACK ACETABULAR REAMER 62 MM
2550-00-063	CROSSBACK ACETABULAR REAMER 63 MM
2550-00-064	CROSSBACK ACETABULAR REAMER 64 MM
2550-00-065	CROSSBACK ACETABULAR REAMER 65 MM
2550-00-066	CROSSBACK ACETABULAR REAMER 66 MM
2550-00-067	CROSSBACK ACETABULAR REAMER 67 MM

EMPHASYS Acetabular Screw Tray

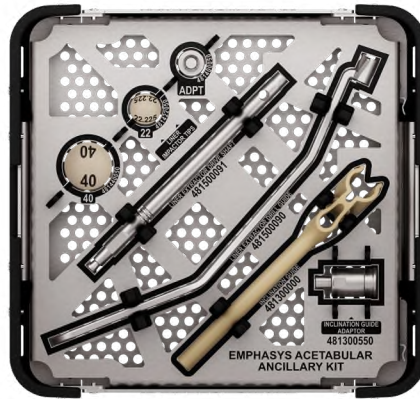


EMPHASYS Acetabular Screw Tray

4800-00-200	EMPHASYS ACETABULAR ALUMINUM SCREW SET CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

2274-47-000	QUICKSET TAPER HEX SCREWDRIVER RIGID
4810-30-530	DEPUY SYNTHES DRILL GUIDE
4810-30-540	DEPUY SYNTHES DEPTH GAUGE
2274-49-000	QUICKSET TAPERED HEX SCREWDRIVER CARDAN
2274-52-000	QUICKSET FLEX DRILL SHAFT QUICK COUPLE
2274-02-000	QUICKSET RATCHET SCREWDRIVER HANDLE
2274-55-000	QUICKSET SCREW HOLDING FORCEP
2274-56-000	QUICKSET RIGID DRILL BIT 25 MM
2274-65-000	QUICKSET RIGID DRILL BIT 35 MM
2274-57-000	QUICKSET RIGID DRILL BIT 40 MM
2274-58-000	QUICKSET RIGID DRILL BIT 55 MM

EMPHASYS Acetabular Ancillary Tray



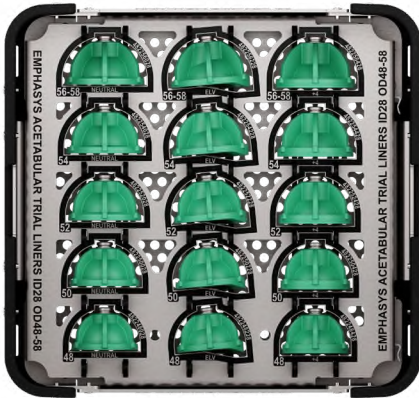
EMPHASYS Acetabular Ancillary Tray

4800-00-210	EMPHASYS ACETABULAR ALUMINUM ANCILLARY CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4814-22-050	EMPHASYS 22 .225 MM LINER IMPACTOR TIP
4814-40-050	EMPHASYS 40 MM LINER IMPACTOR TIP
4813-00-550	EMPHASYS INCLINATION GUIDE ADAPTOR
4814-00-050	EMPHASYS LINER IMPACTOR TIP ADAPTOR
4815-00-090	DEPUY SYNTHES POLYETHYLENE LINER EXTRACTOR DRILL GUIDE
4815-00-091	DEPUY SYNTHES POLYETHYLENE LINER EXTRACTOR DRIVE SHAFT
4813-00-000	EMPHASYS INCLINATION GUIDE

▲ **Important:** The Polyethylene Liner Extractor Drill Bit and Screw are not included within the Ancillary Tray and will need to be ordered separately.

EMPHASYS Acetabular Trial Liners

28 MM TRIAL LINERS



EMPHASYS Acetabular Trial Liners ID 28 OD 48-58

4800-60-128	EMSYS ACE AL 28 M LNR 48-58
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-48-028	EMSYS TRL LNR N 48X28
4822-50-028	EMSYS TRL LNR N 50X28
4822-52-028	EMSYS TRL LNR N 52X28
4822-54-028	EMSYS TRL LNR N 54X28
4822-56-028	EMSYS TRL LNR N 56-58X28
4822-48-228	EMSYS TRL LNR ELV 48X28
4822-50-228	EMSYS TRL LNR ELV 50X28
4822-52-228	EMSYS TRL LNR ELV 52X28
4822-54-228	EMSYS TRL LNR ELV 54X28
4822-56-228	EMSYS TRL LNR ELV 56-58X28
4822-48-428	EMSYS TRL LNR +4N 48X28
4822-50-428	EMSYS TRL LNR +4N 50X28
4822-52-428	EMSYS TRL LNR +4N 52X28
4822-54-428	EMSYS TRL LNR +4N 54X28
4822-56-428	EMSYS TRL LNR +4N 56-58X28



EMPHASYS Acetabular Trial Liners ID 28 OD 40-46

4800-60-028	EMSYS ACE AL 28 LNR 40-46
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-44-028	EMSYS TRL LNR N 44X28
4822-46-028	EMSYS TRL LNR N 46X28
4822-44-228	EMSYS TRL LNR ELV 44X28
4822-46-228	EMSYS TRL LNR ELV 46X28
4822-44-428	EMSYS TRL LNR +4N 44X28
4822-46-428	EMSYS TRL LNR +4N 46X28

Note: Instruments which are excluded from the tray will be introduced into the EMPHASYS Acetabular system at a future date. These slots will remain empty until that time.

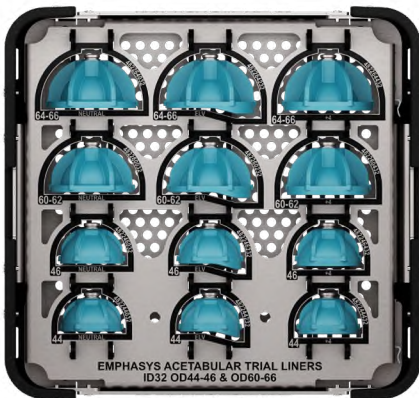
EMPHASYS Acetabular Trial Liners

32 MM TRIAL LINERS



EMPHASYS Acetabular Trial Liners ID 32 OD 48-58

4800-60-032	EMSYS ACE AL 32 LNR 48-58
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-48-032	EMSYS TRL LNR N 48X32
4822-50-032	EMSYS TRL LNR N 50X32
4822-52-032	EMSYS TRL LNR N 52X32
4822-54-032	EMSYS TRL LNR N 54X32
4822-56-032	EMSYS TRL LNR N 56-58X32
4822-48-232	EMSYS TRL LNR ELV 48X32
4822-50-232	EMSYS TRL LNR ELV 50X32
4822-52-232	EMSYS TRL LNR ELV 52X32
4822-54-232	EMSYS TRL LNR ELV 54X32
4822-56-232	EMSYS TRL LNR ELV 56-58X32
4822-48-432	EMSYS TRL LNR +4N 48X32
4822-50-432	EMSYS TRL LNR +4N 50X32
4822-52-432	EMSYS TRL LNR +4N 52X32
4822-54-432	EMSYS TRL LNR +4N 54X32
4822-56-432	EMSYS TRL LNR +4N 56-58X32

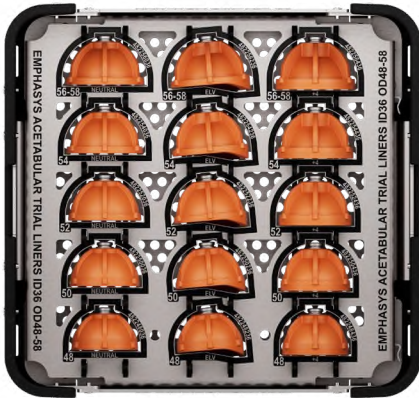


EMPHASYS Acetabular Trial Liners ID 32 OD 44-46, 60-64/66

4800-60-132	EMSYS ACE AL 32 M LNR 44-46, 60-64
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-44-032	EMSYS TRL LNR N 44X32
4822-46-032	EMSYS TRL LNR N 46X32
4822-60-032	EMSYS TRL LNR N 60-62X32
4822-64-032	EMSYS TRL LNR N 64-66X32
4822-44-232	EMSYS TRL LNR ELV 44X32
4822-46-232	EMSYS TRL LNR ELV 46X32
4822-60-232	EMSYS TRL LNR ELV 60-62X32
4822-64-232	EMSYS TRL LNR ELV 64-66X32
4822-44-432	EMSYS TRL LNR +4N 44X32
4822-46-432	EMSYS TRL LNR +4N 46X32
4822-60-432	EMSYS TRL LNR +4N 60-62X32
4822-64-432	EMSYS TRL LNR +4N 64-66X32

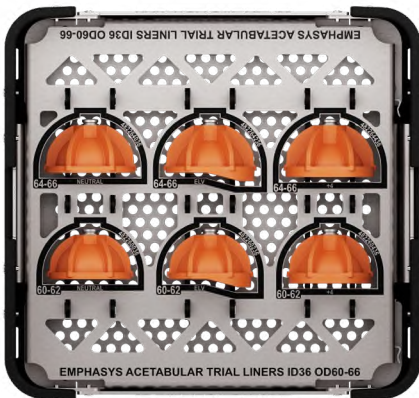
EMPHASYS Acetabular Trial Liners

36 MM TRIAL LINERS



EMPHASYS Acetabular Trial Liners ID 36 OD 48-58

4800-60-036	EMSYS ACE AL 36 LNR 48-58
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-48-036	EMSYS TRL LNR N 48X36
4822-50-036	EMSYS TRL LNR N 50X36
4822-52-036	EMSYS TRL LNR N 52X36
4822-54-036	EMSYS TRL LNR N 54X36
4822-56-036	EMSYS TRL LNR N 56-58X36
4822-48-236	EMSYS TRL LNR ELV 48X36
4822-50-236	EMSYS TRL LNR ELV 50X36
4822-52-236	EMSYS TRL LNR ELV 52X36
4822-54-236	EMSYS TRL LNR ELV 54X36
4822-56-236	EMSYS TRL LNR ELV 56-58X36
4822-48-436	EMSYS TRL LNR +4N 48X36
4822-50-436	EMSYS TRL LNR +4N 50X36
4822-52-436	EMSYS TRL LNR +4N 52X36
4822-54-436	EMSYS TRL LNR +4N 54X36
4822-56-436	EMSYS TRL LNR +4N 56-58X36



EMPHASYS Acetabular Trial Liners ID 36 OD 60-66

4800-60-136	EMSYS ACE AL 36 LNR 60-66
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-60-036	EMSYS TRL LNR N 60-62X36
4822-64-036	EMSYS TRL LNR N 64-66X36
4822-60-236	EMSYS TRL LNR ELV 60-62X36
4822-64-236	EMSYS TRL LNR ELV 64-66X36
4822-60-436	EMSYS TRL LNR +4N 60-62X36
4822-64-436	EMSYS TRL LNR +4N 64-66X36

EMPHASYS Acetabular Trial Liners

40 MM TRIAL LINERS



EMPHASYS Acetabular Trial Liners ID 40 OD 52-58

4800-60-040	EMSYS ACE AL 40 LNR 52-58
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-52-040	EMSYS TRL LNR N 52X40
4822-54-040	EMSYS TRL LNR N 54X40
4822-56-040	EMSYS TRL LNR N 56-58X40
4822-52-240	EMSYS TRL LNR ELV 52X40
4822-54-240	EMSYS TRL LNR ELV 54X40
4822-56-240	EMSYS TRL LNR ELV 56-58X40
4822-52-440	EMSYS TRL LNR +4N 52X40
4822-54-440	EMSYS TRL LNR +4N 54X40
4822-56-440	EMSYS TRL LNR +4N 56-58X40



EMPHASYS Acetabular Trial Liners ID 40 OD 60-66

4800-60-140	EMSYS ACE AL 40 LNR 60-66
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID
4822-60-040	EMSYS TRL LNR N 60-62X40
4822-64-040	EMSYS TRL LNR N 64-66X40
4822-60-240	EMSYS TRL LNR ELV 60-62X40
4822-64-240	EMSYS TRL LNR ELV 64-66X40
4822-60-440	EMSYS TRL LNR +4N 60-62X40
4822-64-440	EMSYS TRL LNR +4N 64-66X40

EMPHASYS Acetabular Trial Shells



EMPHASYS Acetabular Trial Shells ODD 43-65

4800-00-410	EMPHASYS ACETABULAR ALUMINUM ODD 43 MM TO 65 MM TRIAL SHELL CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

4810-43-900	EMPHASYS 43 MM TRIAL SHELL
4810-45-900	EMPHASYS 45 MM TRIAL SHELL
4810-47-900	EMPHASYS 47 MM TRIAL SHELL
4810-49-900	EMPHASYS 49 MM TRIAL SHELL
4810-51-900	EMPHASYS 51 MM TRIAL SHELL
4810-53-900	EMPHASYS 53 MM TRIAL SHELL
4810-55-900	EMPHASYS 55 MM TRIAL SHELL
4810-57-900	EMPHASYS 57 MM TRIAL SHELL
4810-59-900	EMPHASYS 59 MM TRIAL SHELL
4810-61-900	EMPHASYS 61 MM TRIAL SHELL
4810-63-900	EMPHASYS 63 MM TRIAL SHELL
4810-65-900	EMPHASYS 65 MM TRIAL SHELL



EMPHASYS Acetabular Trial Shells EVEN 44-66

4800-00-400	EMPHASYS ACETABULAR ALUMINUM EVEN 44 MM TO 66 MM TRIAL SHELL CADDY
4800-00-130	DEPUY SYNTHES ALUMINUM HALF SIZE MID HEIGHT CASE
4800-10-010	DEPUY SYNTHES ALUMINUM HALF SIZE LID

4810-44-900	EMPHASYS 44 MM TRIAL SHELL
4810-46-900	EMPHASYS 46 MM TRIAL SHELL
4810-48-900	EMPHASYS 48 MM TRIAL SHELL
4810-50-900	EMPHASYS 50 MM TRIAL SHELL
4810-52-900	EMPHASYS 52 MM TRIAL SHELL
4810-54-900	EMPHASYS 54 MM TRIAL SHELL
4810-56-900	EMPHASYS 56 MM TRIAL SHELL
4810-58-900	EMPHASYS 58 MM TRIAL SHELL
4810-60-900	EMPHASYS 60 MM TRIAL SHELL
4810-62-900	EMPHASYS 62 MM TRIAL SHELL
4810-64-900	EMPHASYS 64 MM TRIAL SHELL
4810-66-900	EMPHASYS 66 MM TRIAL SHELL

Additional Instruments

Liner Extractor Drill Bit and Screw

4815-00-092 POLYETHYLENE LINER EXTRACTOR DRILL BIT AND SCREW

EMPHASYS Acetabular Solutions Compatibility

DePuy Legacy Product Compatibility

PINNACLE™ Screws

GRIPION TF
Augments

DePuy Synthes Femoral Stem Compatibility

EMPHASYS

CORAIL™

ACTIS™

C-STEM™ AMT

RECLAIM™

TRI-LOCK™ BPS

SUMMIT™

S-ROM™

Surgical Technique Key:



Caution



Consult Instructions for Use



Do not disassemble



Lubricate



Do Not Impact

VARIABLE



VARIABLE angle to reference face

FIXED



FIXED perpendicular angle to reference face



Assembled Orientation Indicator



Ensure Manual washing



Steam sterilize at 134 degrees centigrade

DePuy Synthes Femoral Head Compatibility

Head	Taper	Offset	28	32	36	40
ARTICUL/EZE™ Ceramic	12/14	-2	N/A	N/A	473436920	473440920
		+1	N/A	473432010	N/A	N/A
		+1.5	473428015	N/A	473436015	473440015
		+4	N/A	N/A	N/A	N/A
		+5	473428050	473432050	473436050	473440050
		+7	N/A	N/A	N/A	N/A
		+8.5	473428085	N/A	473436085	473440085
		+9	N/A	473432090	N/A	N/A
		+12	N/A	N/A	473436120	473440120
ARTICUL/EZE™ BIOLOX® <i>delta</i> Ceramic	12/14	+1	N/A	136532310	N/A	N/A
		+1.5	136528310	N/A	136536310	N/A
		+5	136528320	136532320	136536320	N/A
		+8.5	136528330	N/A	136536330	N/A
		+9	N/A	136532330	N/A	N/A
		+12	N/A	N/A	136536340	N/A
ARTICUL/EZE™ BIOLOX® <i>delta</i> TS Ceramic	12/14	+1	N/A	136532710	N/A	136540710
		+1.5	136528710	N/A	136536710	N/A
		+5	136528720	136532720	136536720	136540720
		+8.5	136528730	N/A	136536740	136540730
		+9	N/A	136532730	N/A	N/A
		+12	136528740	N/A	136536740	136540740
		+13	N/A	136532740	N/A	N/A
		+15.5	N/A	N/A	136536750	136540750
ARTICUL/EZE™ Metal	12/14	+1	N/A	136521000	136536310	N/A
		+1.5	136511000	N/A	136536320	N/A
		+4	N/A	N/A	N/A	N/A
		+5	136512000	136522000	136536330	N/A
		+7	N/A	N/A	N/A	N/A
		+8.5	136513000	N/A	136536340	N/A
		+9	N/A	136523000	N/A	N/A
		+12	136514000	N/A	N/A	N/A
		+13	N/A	136524000	N/A	N/A
		+15.5	136515000	N/A	N/A	N/A

EMPHASYS Acetabular Solutions Compatibility – DePuy Synthes Femoral Head Compatibility (continued)

Head	Taper	Offset	28	32	36	40
ARTICUL/EZE™ M-Spec Metal	12/14	-2	N/A	N/A	136550000	136504000
		+1.5	136511500	N/A	136551000	136505000
		+5	136512500	N/A	136552000	136506000
		+8.5	136513500	N/A	136553000	136507000
		+12	N/A	N/A	136554000	136508000
		+15.5	N/A	N/A	136555000	136509000
S-ROM STD CoCr	11/13	+0	522028	522032	N/A	N/A
		+3	875923	875955	N/A	N/A
		+6	522029	522033	N/A	N/A
		+9	875954	875956	N/A	N/A
		+12	522032	522034	N/A	N/A
S-ROM M-Spec CoCr	11/13	-3	N/A	N/A	136526000	136541500
		+0	136516500	N/A	136531000	136542500
		+3	136517500	N/A	136532000	136543500
		+6	136518500	N/A	136533000	136544500
		+9	136519500	N/A	136534000	136545500
		+12	N/A	N/A	136535000	136547500
BIOLOX® <i>delta</i> Ceramic	11/13	+0	136528210	136532210	136536210	N/A
		+3	136528220	136532220	136536220	N/A
		+6	136528230	136532230	136536230	N/A
		+9	N/A	N/A	136536240	N/A
		+12	N/A	N/A	136536250	N/A

CAUTION: USA Law restricts these devices to sale by or on the order of a physician.

Not all products are currently available in all markets.

The third-party trademarks used herein are the trademarks of their respective owners.

Please refer to the instructions for use for a complete list of indications, contraindications, warnings and precautions.



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