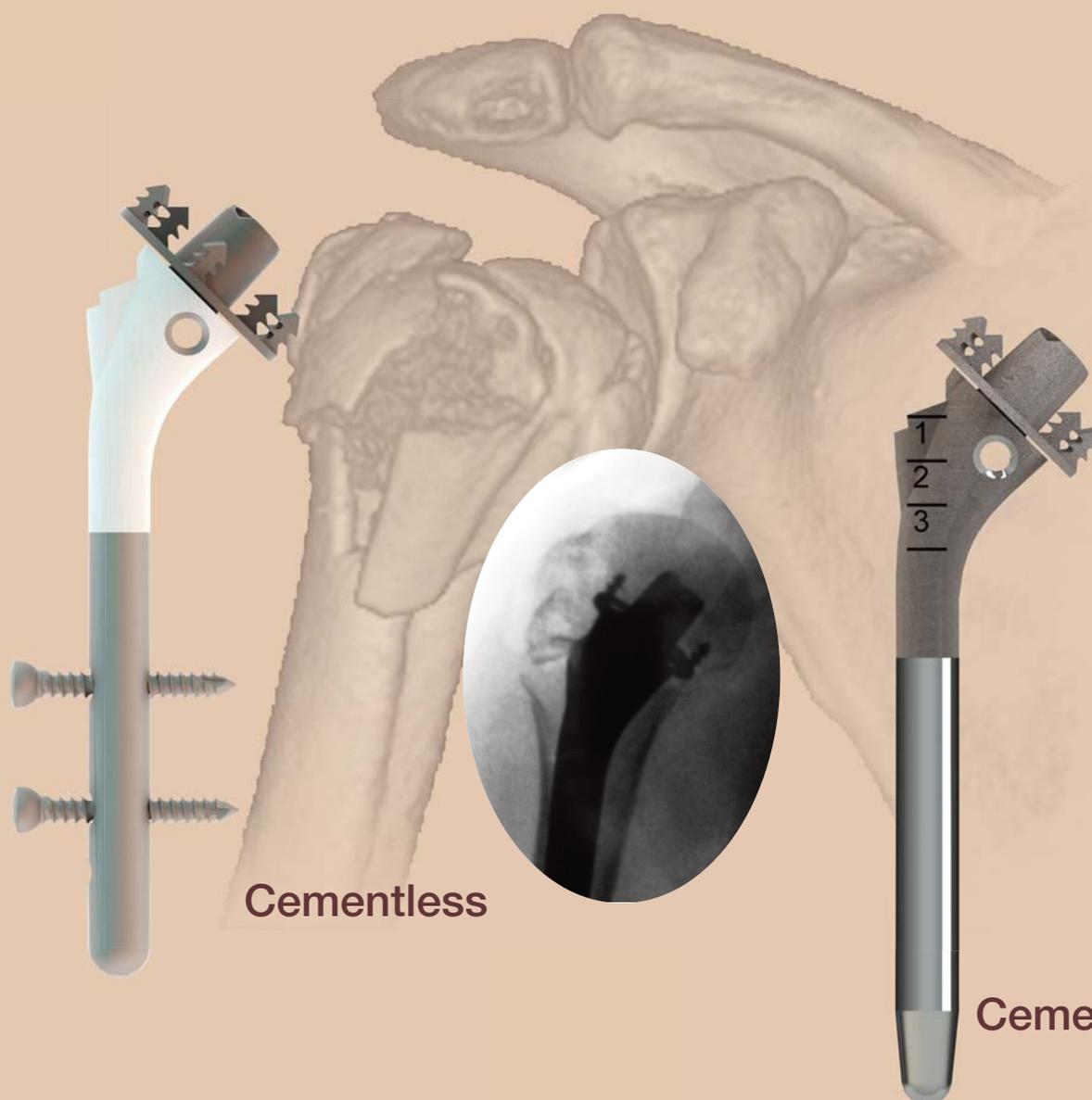




HUMELOCK™ II

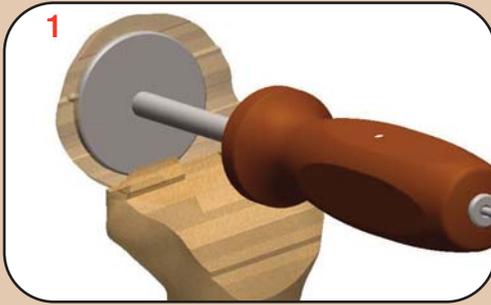
Bilboquet 2



Cementless

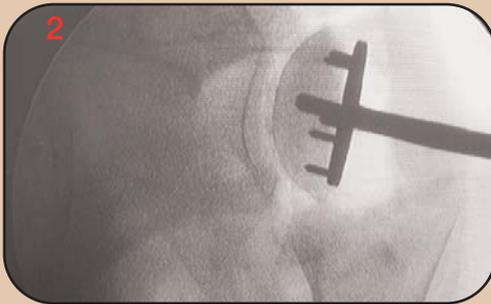
Cemented

SURGICAL TECHNIQUE



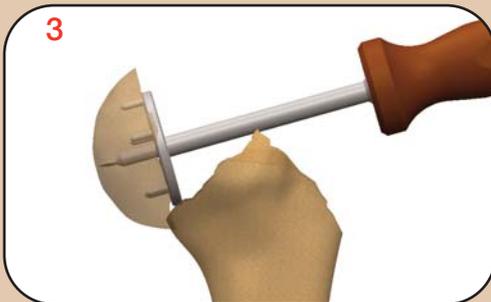
Positioning the trial (sizer):

Position the sizer in the center of the humeral head. Change from one size to another until the diameter of the sizer matches the diameter of the natural head (Ø30, 34, 38mm) to ensure optimum peripheral support. The choice of the bilboquet 2 will be governed by the sizer, SIZE for SIZE.



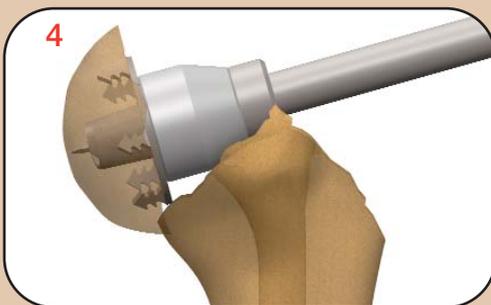
Checking:

A X-ray check is essential to ensure that the bilboquet 2 to be fitted is properly centred. Sizers are identical to the implants. "What you see is what you get". If the sizer Ø30mm seems too large, implant the bilboquet 2 Ø26mm.



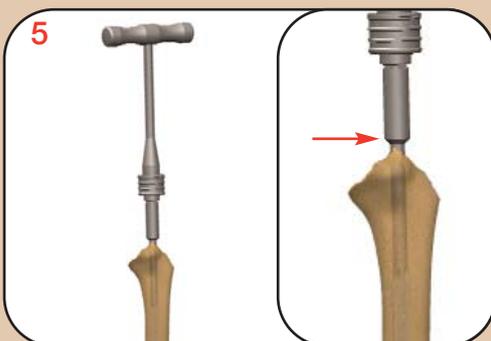
Centering of the bilboquet 2:

Once the trial bilboquet 2 is properly positioned, insert a K-wire in the center of the humeral head through the sizer. Leave the K-wire in place and remove the sizer.



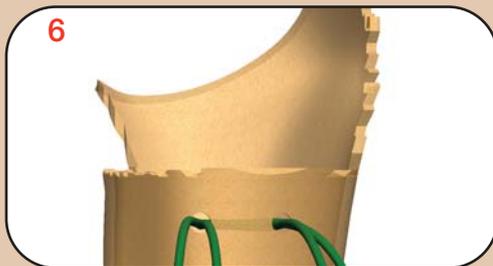
Impaction of the bilboquet 2:

Slide the bilboquet 2 down the K-wire. The size of the bilboquet 2 should be the same as the sizer used. Impact the bilboquet 2 using the impactor. Remove the K-wire.



Preparation of the humeral shaft:

Preparation of the humeral shaft using the reamers from the smallest to the biggest size. Use one size then the other until the reamer diameter fits to the humeral intermedullary canal (Ø8, 10, 12mm for cementless stems). The reamer must be introduced into the canal until it stops (→). (Size of the reamer = Size of the stem).



Fitting of the tension loop (green):

Make two holes in the diaphysis before inserting the stem into the humeral shaft using the same size ($\text{Ø}3.2\text{mm}$) as for interlocking. Introduce the loop from the outside to the inside, then through the second hole from the inside to the outside.

Fitting the stem:

WARNING

Cemented stem:

1- Mount the aiming guide onto the implant.

Cementless stem:

1- Mount the aiming guide onto the implant without tightening the screw.

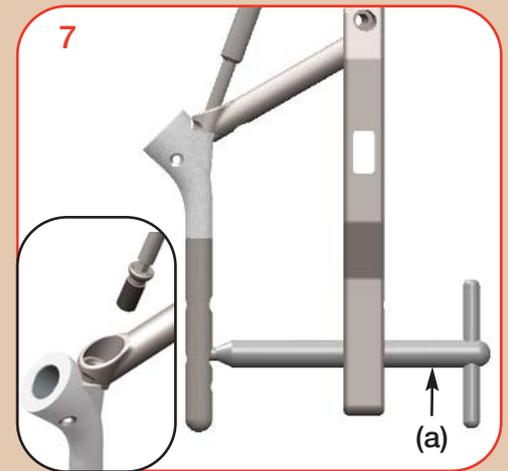
2- Place the stability pin (a) into the distal locking hole of the guide and the stem.

Do not lean on the stability pin, in order to avoid stress on the stem.

3- Tighten the screw of the «implant + guide» assembly.

4- Remove the stability pin.

5- Verify the proper alignment of locking holes with the aimer.



Impaction of the definitive taper:

Put the stem into the stem holder before impacting the double taper in it.



Check carefully that there are no splinters on the top of the humeral metaphysis hindering impaction of the morse taper.



Reduction of the bilboquet 2 on the stem:

Check nothing is trapped in the taper.

Place the arm in abduction.

Use a spatula to expose both tapers.

Position the head against the glenoid for impaction of the morse tapers.

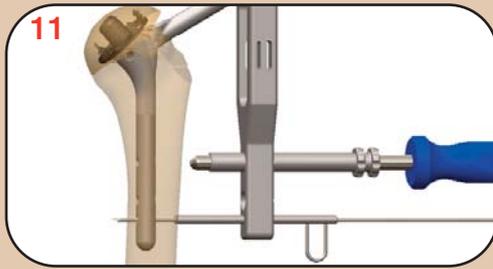
Complete impaction using the stem impactor, positioning this in the slot at the bottom of the tube of the aiming guide.



Stabilizing of height and retroversion:

Insert the $\text{Ø}2.0\text{ mm}$ K-wire through the $\text{Ø}2.2\text{mm}$ guide to make contact with the second cortex.

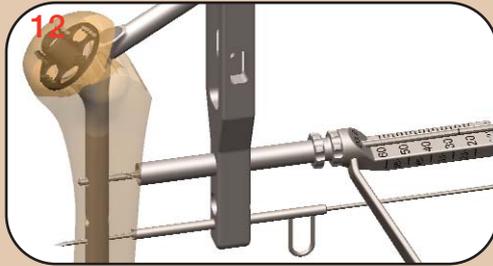
Visually check the height and position of the stem by X-ray before interlocking with two screws.



Proximal interlocking (if cementless stem):

After having carefully dissected the soft parts using Halstead forceps, insert the Ø10mm guide into the top hole of the aiming guide until contact is made with the cortex using the soft-tissue holder. Insert the drill guide depth gauge into the Ø10mm guide.

Leave the distal K-wire in place.



Length of screws (10 sizes) (if cementless stem):

a) 1st method without a gauge:

Drill the 1st cortex with the measurer drill.

When in contact with the 2nd cortex, read the measurement and use screw size **L + 4 mm.**

Drill to the 2nd cortex.

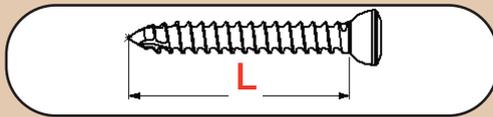
b) 2nd method with gauge:

Drill up to and including the 2nd cortex.

Use the gauge to measure the screw length.

Use screw size **L + 2 mm.**

Screw length is measured from under the head.

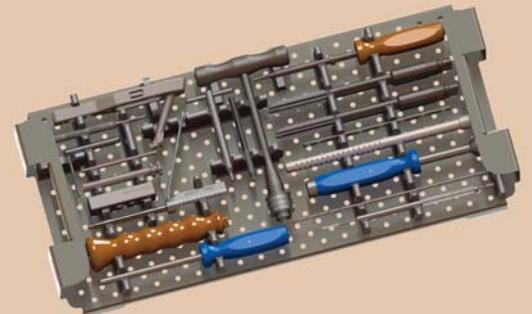


Distal interlocking (if cementless stem):

Proceed in the same way as for proximal interlocking **leaving the K-wire in place.**

IMPLANTS

101-0000	Hex. 3.5 screw for OMS / cage
102-5100	Bilboquet 2 Ø26mm
102-5101	Bilboquet 2 Ø30mm
102-5102	Bilboquet 2 Ø34mm
102-5103	Bilboquet 2 Ø38mm
106-2020	OMS / cage Ø30
106-2021	OMS / cage Ø33
106-2022	OMS / cage Ø36
106-2023	OMS / cage Ø39
106-2024	OMS / cage Ø42
107-4518/4536	Cortical screw Ø4.5mm L.18 to 36mm, inc 2 mm
112-0000	Double taper +0mm 0°
311-0208	Cementless stem Ø08 (Ti+HAP)
311-0210	Cementless stem Ø10 (Ti+HAP)
311-0212	Cementless stem Ø12 (Ti+HAP)
311-0306	Cemented stem Ø06
311-0308	Cemented stem Ø08
311-0310	Cemented stem Ø10



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