HIP

SURGICAL TECHNIQUE

DUAL MOBILITY CUP, CEMENTED OR CEMENTLESS

Hip & go

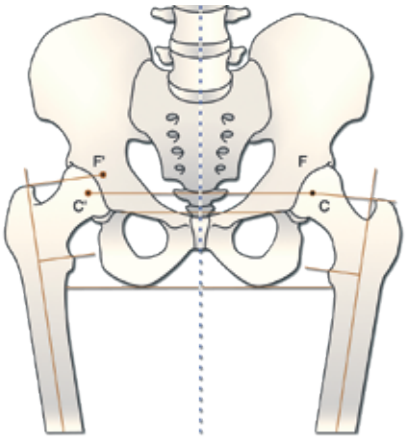
GROUP FH ORTHO™

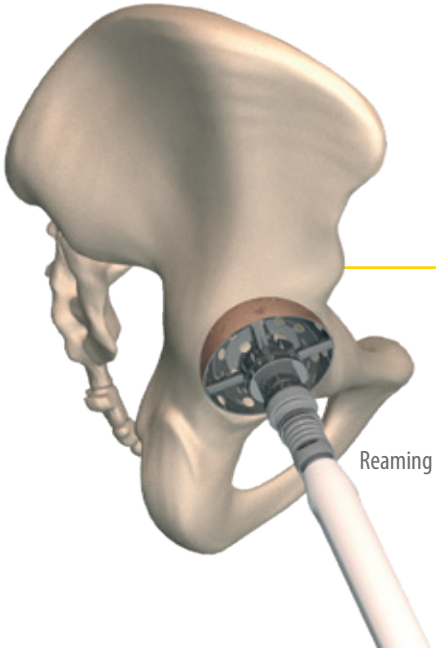
SURGICAL TECHNIQUE

1. Planning and approach

Preoperative planning determines the centre of rotation of the arthroplasty and enables to estimate the size of the implant.

The Hip'n go cup instrumentation is adapted to all approaches.





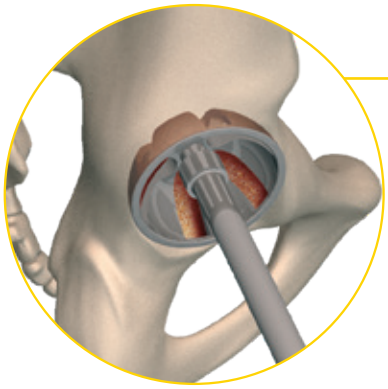
Reaming

2. Reaming

Reaming is carried out using specific reamers in increasing sizes from 44 to 64 mm, in 2 mm increments. The acetabulum will be hollowed out, identifying the quadrilateral lamina to allow the cup to be fully inserted into the acetabular cavity.

The bone should be reamed down to the subchondral bleeding bone, ensuring vascularization and bone regrowth. Once the correct diameter has been reached the reamer will stabilize. The size of the last reamer corresponds to the size of the final metal-back.

Reamer..... ref. 241 599 to 241 609
Reamer handle..... ref. 241 615



Placing the trial cup

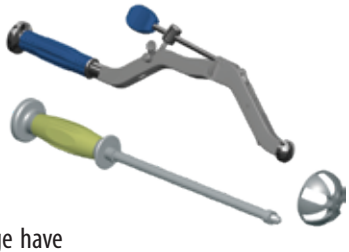
3. Cup trials

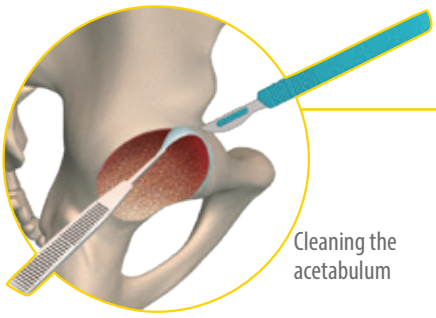
The trial cup corresponding to the last reamer used is screwed onto the M6/M10 straight impactor (or onto the offset cup impactor). The cup is hammered in and firmly fitted thus ensuring the stability of the final implant that matches perfectly.

The tilt and anteversion are checked using the guide that is placed on the impacting handle (according to the one that has been selected), whilst taking care to avoid any anterior overhang.

NOTE: When using a cemented cup, the trial cup must penetrate the reamed cavity without catching in the acetabulum; this will ensure the correct cement mantle.

Trial rings Ø46 to 64 mm..... ref. 241 706 to 241 715
Straight impactor M6/M10..... ref. 256 846
Guide for impacting handle..... ref. 256 847
Removable guide axis ..... ref. 241 504
Offset cup impactor..... ref. 254 798
Offset impactor guide..... ref. 254 799





Cleaning the acetabulum

4. Impacting the final cup

Prior to impaction, ensure that the acetabular cavity and cup edge have been thoroughly cleaned. A Hip'n go cup is then selected in the same size as the last reamer used.

NOTE: When using a cemented cup, select the Hip'n go cup corresponding to the same size cup reinforcement as the last reamer used. This ensures a minimal cement mantle of 1.5mm at the radius.

A Bordeï expandable grip/impaction plate in the same size as the selected cup in clipped onto the offset cup impactor after having screwed on the conical axis (see technical sheet dedicated to the grip).

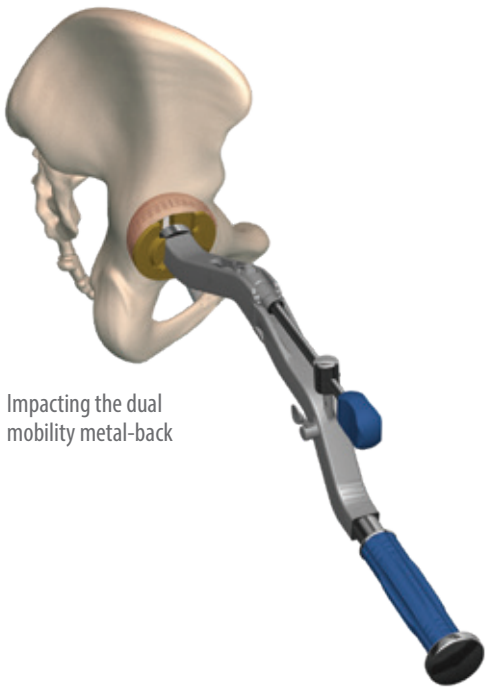
The cup will be fitted on the plate ensuring correct orientation.

Locate the position of the offset or the tripod cup overhang. These elements must be placed at the top.

Tilt and anteversion are checked using the guide that is put on the impacting handle, whilst taking care to avoid any anterior overhand.

The guide allows marks to be made at 45° and 20°.

When withdrawing avoid putting too much torsional force on the system.



Impacting the dual mobility metal-back

DM Bordeï plates for offset handle S46 to S56..... ref. 266 958 to 266 967
Conical axis for offset handle..... ref. 266 957
Offset cup impactor..... ref. 254 798
Offset impactor guide..... ref. 254 799

When using the cemented version, the quality of the seal is directly related to the cementing technique and care when applying it.

The cement mantle should ideally be 1mm thick to ensure optimal fixation of the cemented dual mobility Hip'n go cup.

Constant pressure will be applied either with the plate system or the expandable ball, until the cement is set.

Option

An optional impaction system for dual mobility cups is available. It consists in an expandable ball (cup holder). Montage should be carried out as described below.

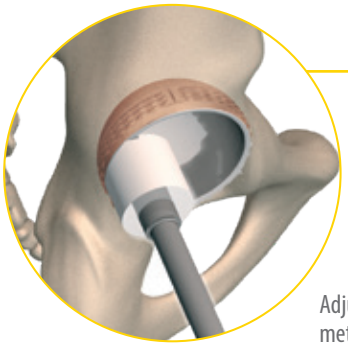
Position the metal-back correctly then screw the handle on to secure desired blockage. Impact once then unscrew the handle by several turns before impacting again to free the system and withdraw the expandable ball.

DM cup impacting handle ..... ref. 265 748
Cup grip S46 to S64 ..... ref. 265 750 to 265 759
Conical axis ..... ref. 265 749

In case of detachment between the metal back and the impactor.
Descend the metal back by hand, to the maximum, in the acetabulum.

Then, using the cup positioner adjuster on the impaction sleeve M6 / M10, hit several time in the bottom of the metal back to perform the impaction.

Cup position adjuster..... ref. 256 876
Straight impactor M6/M10..... ref. 256 846

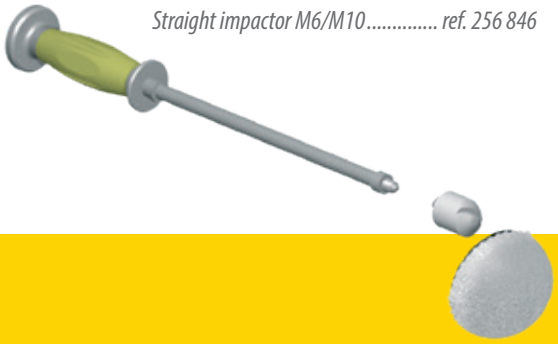


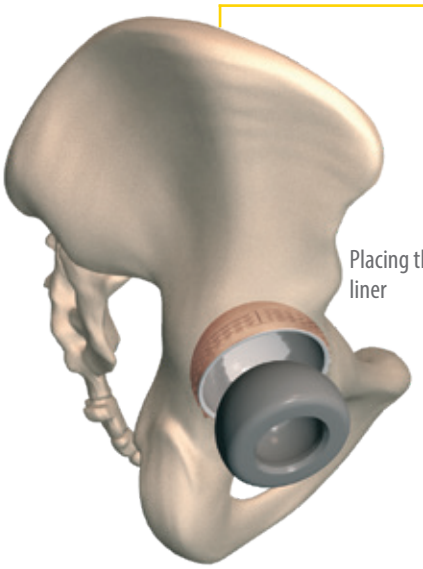
Adjusting the metal-back

5. Adjusting the metal-back

In the event of the metal-back requiring several degrees adjustment in tilt or anteversion, a cup position adjuster fixed onto the M6/M10 impactor is available in the instrument set.

Cup position adjuster..... ref. 256 876
Straight impactor M6/M10..... ref. 256 846





Placing the trial liner

6. Placing the trial liner

Trial liners allow stability and absence of impingement to be verified and neck length to be selected.

Trial liners are available in internal diameters of 22mm for size 46 and of 28mm from size 48. Forceps for trial liners are available, for easy placing and removal.

Trial inserts Ø22 S46..... ref. 258 557
Trial inserts Ø28 S48 to S64..... ref. 258 548 to 258 556
Forceps for trial liner..... ref. 258 313

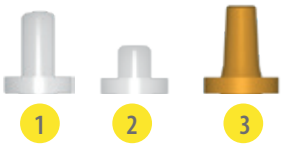
7. Placing the head in the liner

The head is impacted into the liner using a cup press and its impaction attachment. 3 impaction attachments are available:

1 - Attachment for metal head with 12/14 taper;

2 - Attachment specific to ceramic heads with 12/14 taper. This impactor presses on the head overhang, not the bottom of the cone;

3 - Head for 10/12 taper.



Cup press..... ref. 265 098
Screw for cup press..... ref. 265 101
Mobile insert pusher for press..... ref. 265 099
Press attachment for standard cups, 12/14 taper..... ref. 265 184 1
Press attachment for ceramic cups, 12/14 taper..... ref. 265 185 2
Press attachment for cups, 10/12 taper..... ref. 265 186 3

Place the liner axially onto the head and screw until the liner retentive edge has passed. Check head and liner mobility in the liner.

Once the head has been impacted into the liner, fix the device on the stem and impact gently.

NB: The press can be used without impaction attachment for monobloc stems. In this event, apply the press fork to the base of the femoral head.

8. Closing

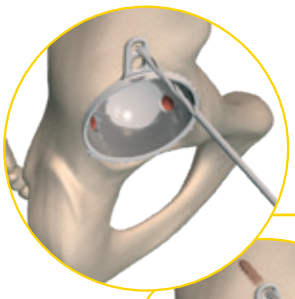
Closing is carried out layer by layer, in the surgeon's usual manner.

SPECIFICITIES FOR THE TRIPOD CUP

1. Shaping the flange

Before impacting the Hip'n go Tripod cup, the Cobalt Chrome flange can be shaped using the flange adjuster provided in the instrument set. The flange can be slightly bent or straightened to adapt to the anatomy of the patient's iliac bone.

Flange adaptor..... ref. 256 875



Drilling the iliac bone

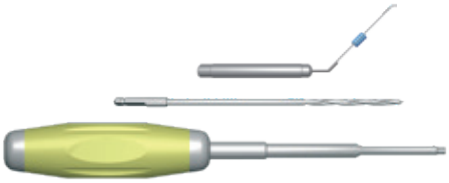
2. Iliac screwing

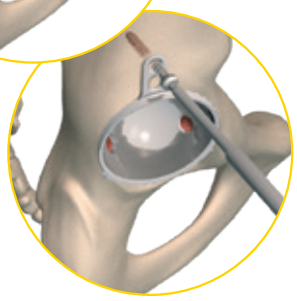
The iliac hole is drilled using the long, 3.2 mm diameter bit.

The length is then determined with the screw calibration gauge.

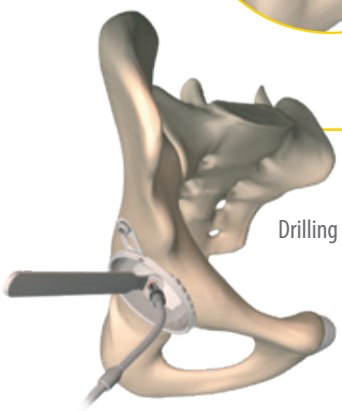
The round-headed 4.5mm diameter cortical screw is inserted with the straight screwdriver.

Calibration gauge..... ref. 206 976
Long bit Ø 3,2mm..... ref. 236 649
Straight 3.5 screwdriver..... ref. 256 877





Placing the iliac screw



Drilling the peg hole

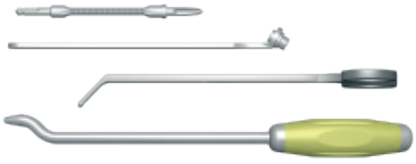
3. Inserting pegs

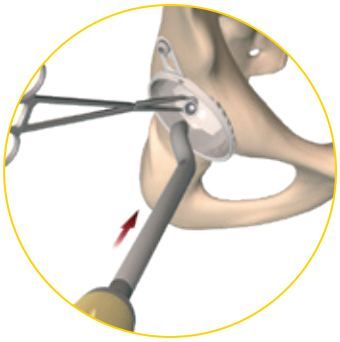
The peg hole is drilled using the flexible peg drill and guided by the specific bit guide.

The pegs are inserted with the peg forceps and impacted with the curved impactor.

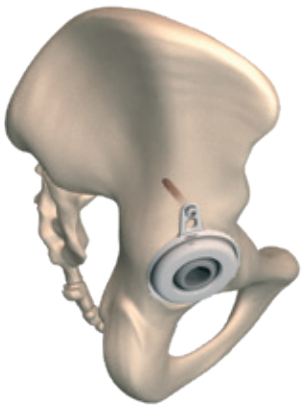
Check the pegs are impacted at the back and that they don't stick out from the metal-back to avoid conflict with the polyethylene liner.

Flexible peg drill..... ref. 263 691
Bit guide..... ref. 256 842
Peg and screw forceps..... ref. 267 270
Curved peg impactor..... ref. 256 852





Impacting the peg



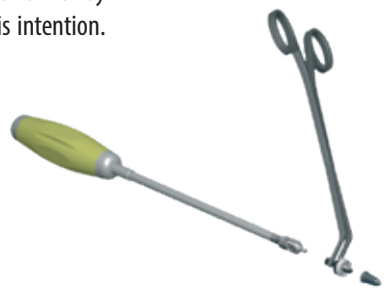
Final view. Tripod dual mobility cup in place

Extraction

If the pegs need to be extracted, fit the peg extractor onto the peg forceps.

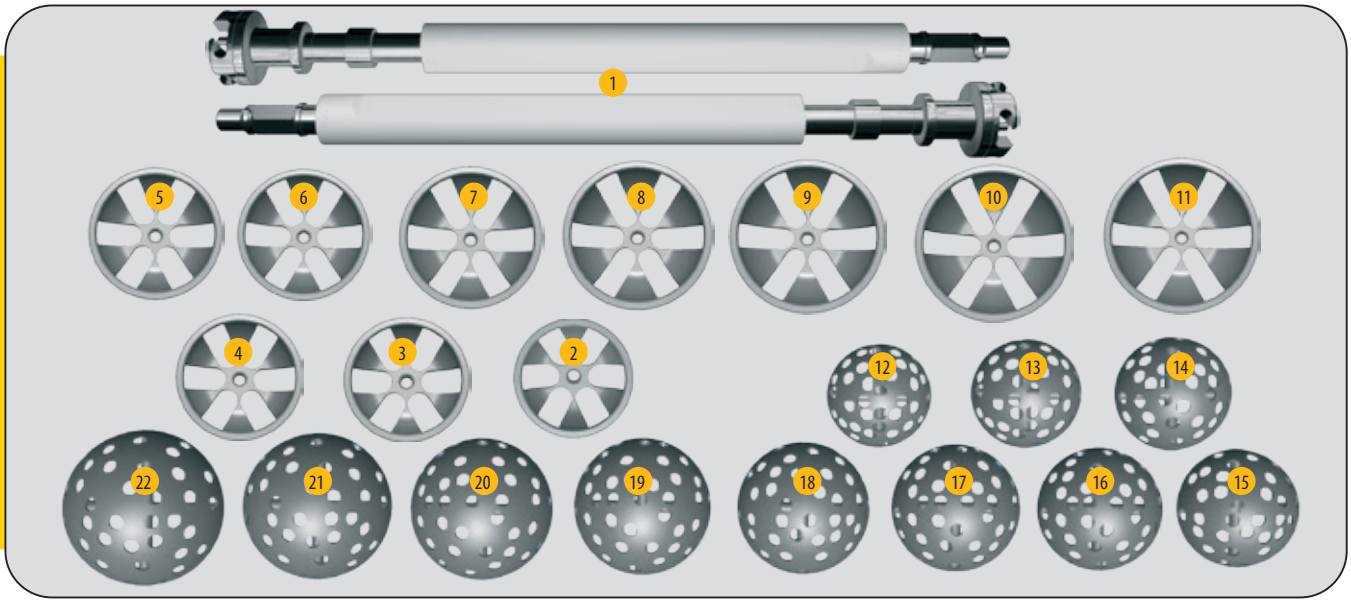
The system is then fitted onto the peg, using the cardan screwdriver by screwing the extractor onto the screw thread available for this intention. Turn clockwise to remove the peg.

Peg extractor..... ref. 256 853
Peg and screw forceps..... ref. 267 270
3.5 cardan screwdriver..... ref. 256 812



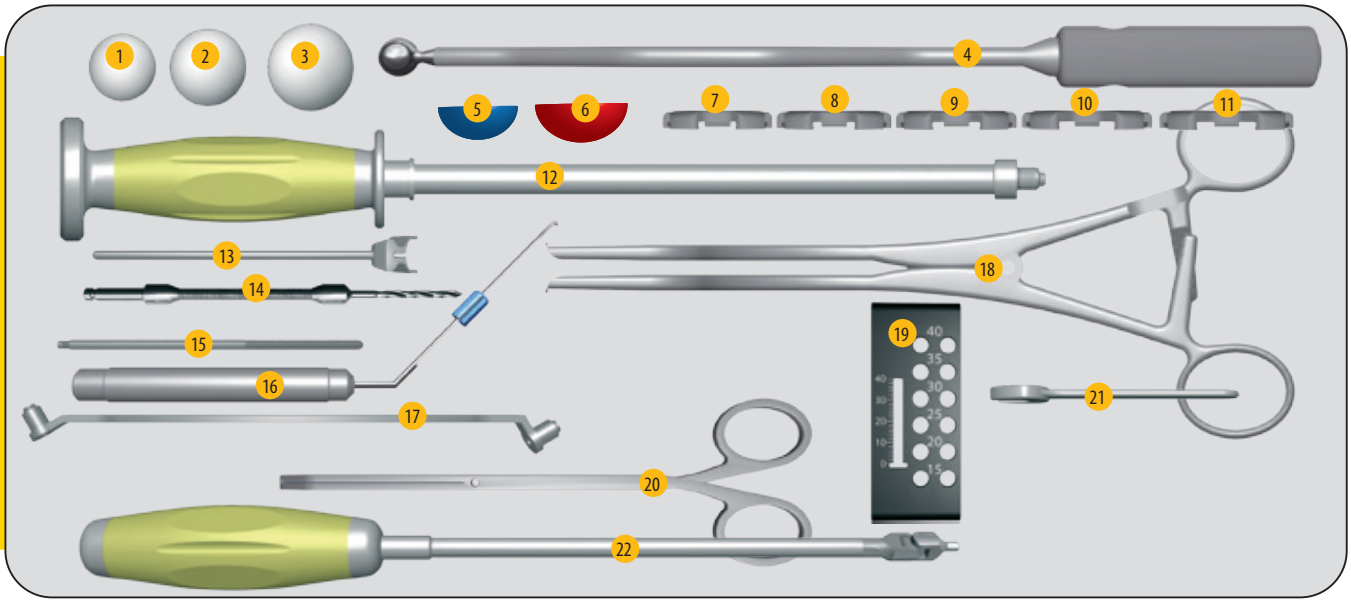
INSTRUMENT SET

Universal cup insert tray



1. Shaft for reamer (ref: 241 615)
2. Trial ring S46 (réf : 241 706)
3. Trial ring S48 (ref: 241 707)
4. Trial ring S50 (ref: 241 708)
5. Trial ring S52 (ref: 241 709)
6. Trial ring S54 (ref: 241 710)
7. Trial ring S56 (ref: 241 711)
8. Trial ring S58 (ref: 241 712)
9. Trial ring S60 (ref: 241 713)
10. Trial ring S62 (ref: 241 714)
11. Trial ring S64 (ref: 241 715)
12. Acetabular reamer Ø44 (ref: 241 599)
13. Acetabular reamer Ø46 (ref: 241 600)
14. Acetabular reamer Ø48 (ref: 241 601)
15. Acetabular reamer Ø50 (ref: 241 602)
16. Acetabular reamer Ø52 (ref: 241 603)
17. Acetabular reamer Ø54 (ref: 241 604)
18. Acetabular reamer Ø56 (ref: 241 605)
19. Acetabular reamer Ø58 (ref: 241 606)
20. Acetabular reamer Ø60 (ref: 241 607)
21. Acetabular reamer Ø62 (ref: 241 608)
22. Acetabular reamer Ø64 (ref: 241 609)

Universal cup tray

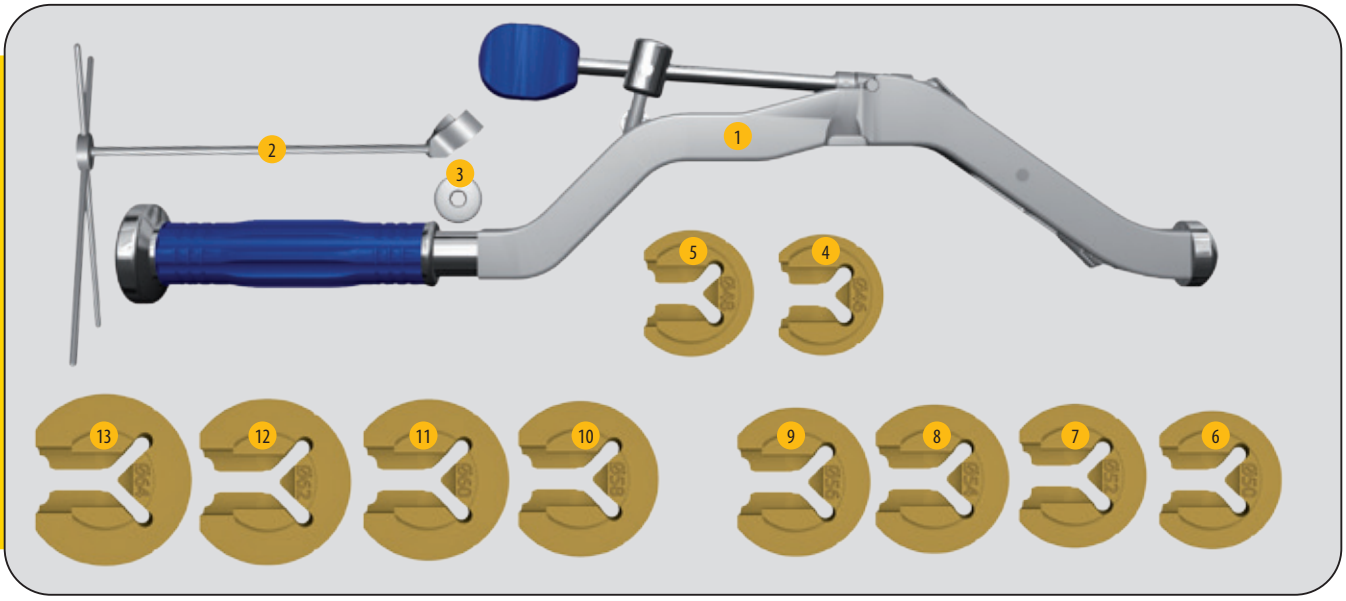


1. PE insert impactor Ø28 (ref: 256 819)
2. PE insert impactor Ø32 (réf : 256 820)
3. PE insert impactor Ø36 (ref: 258 311)
4. HNG ceramic liner holder (ref: 266 680)
5. BALL D32mm for HNG ceramic liner holder Ø32 (ref: 266 681)
6. BALL D36mm for HNG ceramic liner holder Ø36 (ref: 266 682)
7. HNG ceramic liner connector Ø32 S46-48 (ref: 266 683)
8. HNG ceramic liner connector Ø32 S50 (ref: 266 684)
9. HNG ceramic liner connector Ø32/36 S52 (ref: 266 685)
10. HNG ceramic liner connector Ø32/36 S54-56 (ref: 266 686)
11. HNG ceramic liner connector Ø32/36 S58-74 (ref: 266 690)
12. M6/M10 straight cup impactor (ref: 256 846)
13. Orientator for impactor handle (ref: 256 847)
14. Flexible drill bite D.3,2 Lg44 (ref: 263 690)
15. Axis for impaction handle (ref: 241 504)
16. Depth gauge for screws (ref: 206 976)
17. Drill guide 2 angles D.3,2mm (ref: 252 453)
18. Alumina insert holder (ref: 258 313)
19. Screw rac
20. HNG screw and plug holder (ref: 267 270)
21. Spanner (ref: 257 237)
22. Hexagonal screwdriver (ref: 256 812)

Offset cup impactor (ref. 269 284)

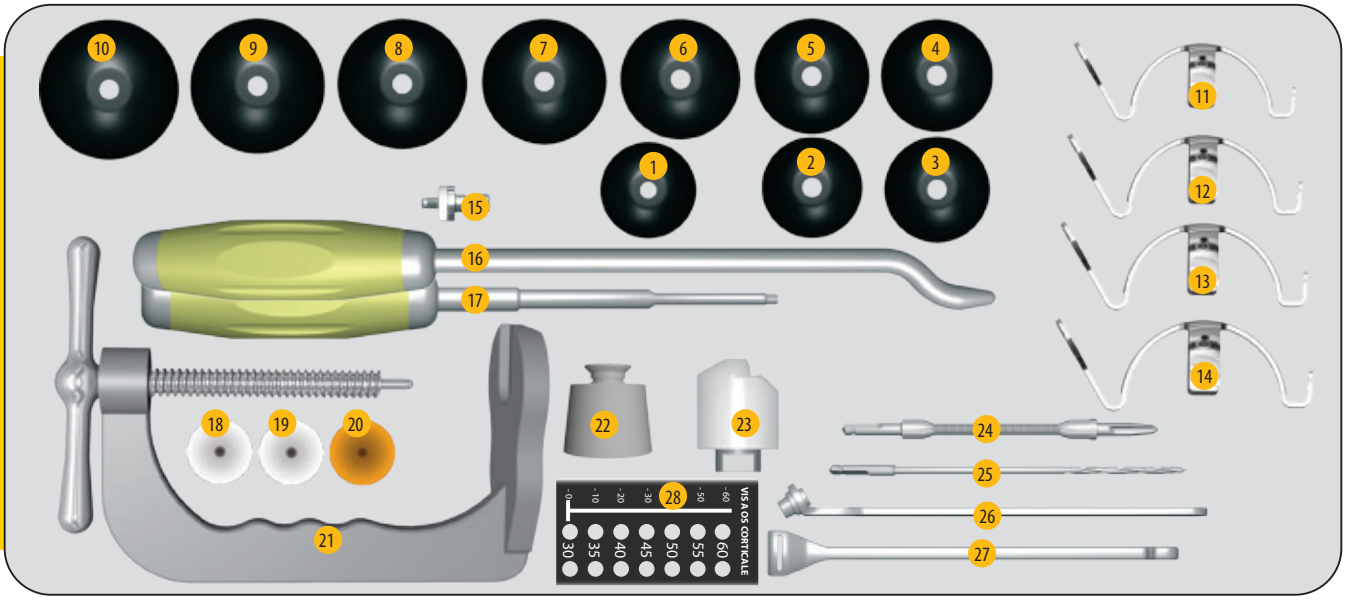
Offset acetabular reamer (ref : 269 563)

Dual Mobility expansion plate insert tray



1. Lis offset impactor for cup (ref: 254 798)
2. Mark line offset impactor cup (ref: 254 799)
3. HNG DM axis for curved holder (réf. 266 957)
4. HNG DM grasping plate curved holder S46 (ref: 266 958)
5. HNG DM grasping plate curved holder S48 (ref: 266 959)
6. HNG DM grasping plate curved holder S50 (ref: 266 960)
7. HNG DM grasping plate curved holder S52 (ref: 266 961)
8. HNG DM grasping plate curved holder S54 (ref: 266 962)
9. HNG DM grasping plate curved holder S56 (ref: 266 9563)
10. HNG DM grasping plate curved holder S58(ref: 266 964)
11. HNG DM grasping plate curved holder S60 (ref: 266 965)
12. HNG DM grasping plate curved holder S62 (ref: 266 966)
13. HNG DM grasping plate curved holder S64 (ref: 266 967)

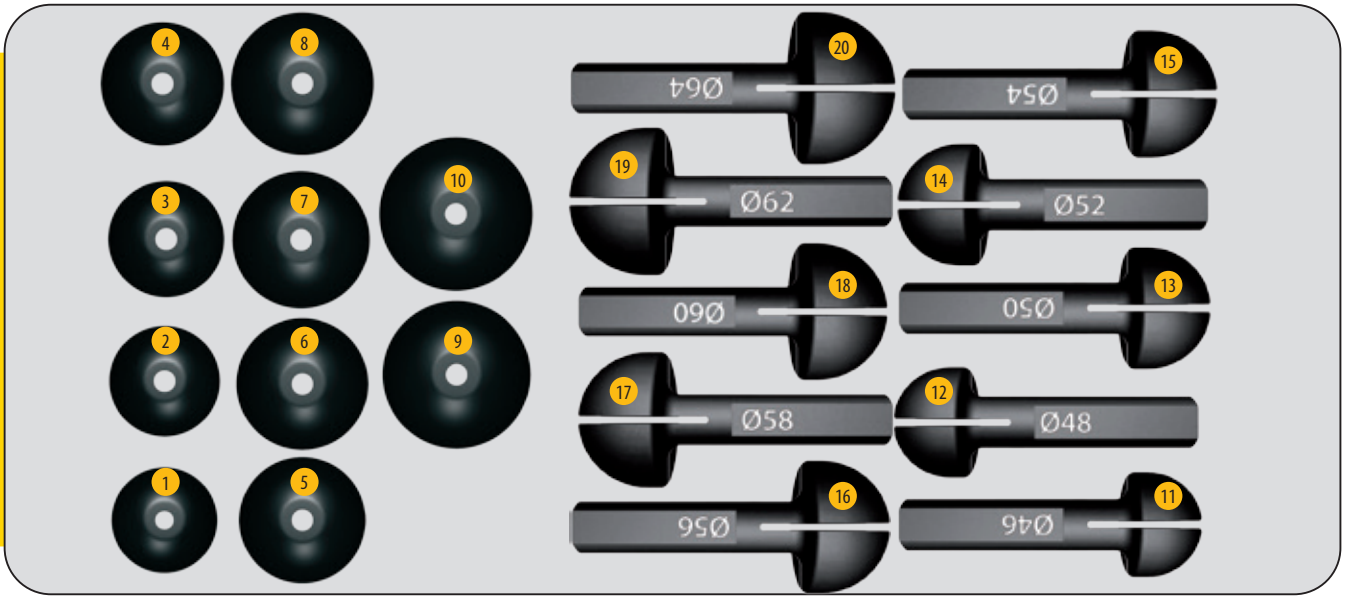
Dual Mobility expansion plate tray



1. HNG DM trial insert not const S46 Ø22 (ref: 258557)
2. HNG DM trial insert not const S48 Ø28 (ref: 258548)
3. HNG DM trial insert not const S50 Ø28 (réf: 258549)
4. HNG DM trial insert not const S52 Ø28 (ref: 258550)
5. HNG DM trial insert not const S54 Ø28 (ref: 258551)
6. HNG DM trial insert not const S56 Ø28 (ref: 258552)
7. HNG DM trial insert not const S58 Ø28 (ref: 258553)
8. HNG DM trial insert not const S60 Ø28 (ref: 258554)
9. HNG DM trial insert not const S62 Ø28 (ref: 258555)
10. HNG DM trial insert not const S64 Ø28 (ref: 258556)
11. Trial Kerboull cross S50 (ref: 265455)
12. Trial Kerboull cross S54 (ref: 265456)
13. Trial Kerboull cross S58 (ref: 265457)
14. Trial Kerboull cross S62 (ref: 265458)
15. Tripod plug extractor (ref: 256853)
16. HNG curved plug impactor (ref: 256852)
17. HNG straight screwdriver (ref: 256877)
18. 12/14 taper standard attachment (ref: 265184)
19. 12/14 taper alumina attachment (ref: 265185)
20. 10/12 taper attachment (ref: 265186)
21. Cup press + screw (ref: 265098 & 265101)
22. Insert attachment (ref: 265099)
23. Cup adjuster (ref: 256876)
24. Flexible drill bite for tripod plug (ref: 263691)
25. Drill dia.3.2mm (236649)
26. Drill guide (ref: 256842)
27. Iliac support adjuster (ref: 256875)
28. Screw rac

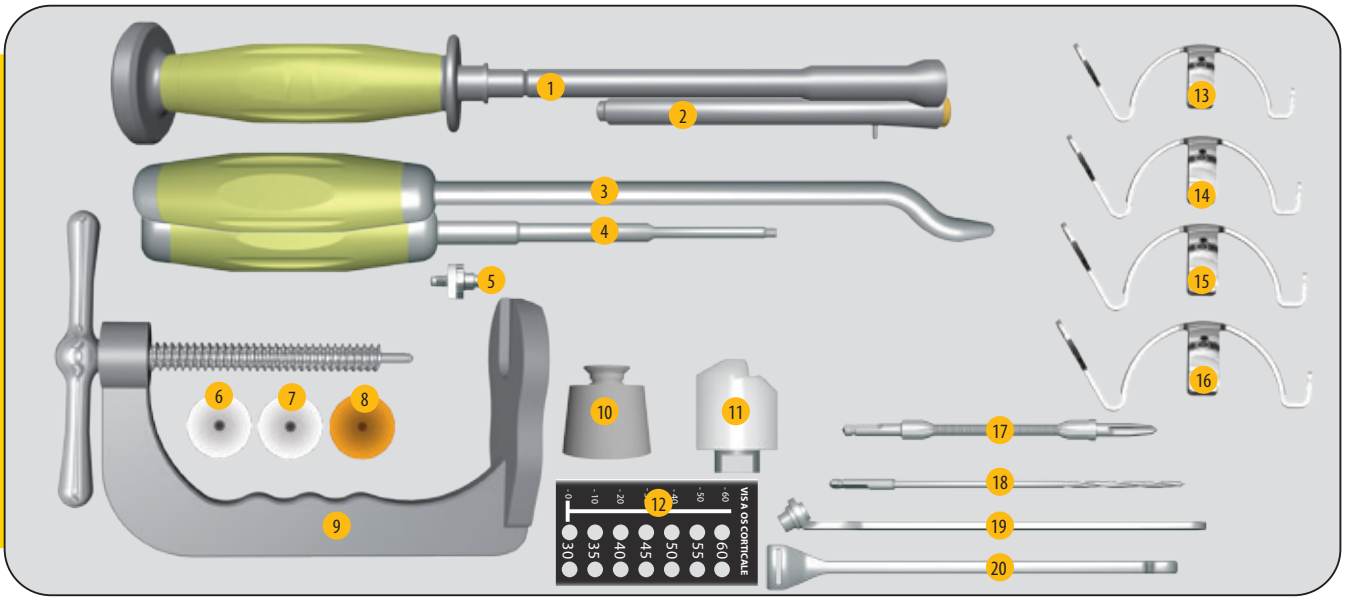
INSTRUMENT SET [Option]

Dual Mobility expansion ball insert



1. HNG DM trial insert not const S46 Ø22 (ref: 258 557)
2. HNG DM trial insert not const S48 Ø28 (ref: 258 548)
3. HNG DM trial insert not const S50 Ø28 (réf : 258 549)
4. HNG DM trial insert not const S52 Ø28 (ref: 258 550)
5. HNG DM trial insert not const S54 Ø28 (ref: 258 551)
6. HNG DM trial insert not const S56 Ø28 (ref: 258 552)
7. HNG DM trial insert not const S58 Ø28 (ref: 258 553)
8. HNG DM trial insert not const S60 Ø28 (ref: 258 554)
9. HNG DM trial insert not const S62 Ø28 (ref: 258 555)
10. HNG DM trial insert not const S64 Ø28 (ref: 258 556)
11. DM expansion ball S46 (ref: 265 750)
12. DM expansion ball S48 (ref: 265 751)
13. DM expansion ball S50 (ref: 265 752)
14. DM expansion ball S52 (ref: 265 753)
15. DM expansion ball S54 (ref: 265 754)
16. DM expansion ball S56 (ref: 265 755)
17. DM expansion ball S58 (ref: 265 756)
18. DM expansion ball S60 (ref: 265 757)
19. DM expansion ball S62 (ref: 265 758)
20. DM expansion ball S64 (ref: 265 759)

Dual Mobility expansion ball tray



1. HNG DM impact.handle for expans. ball (ref: 265 748)
2. Expansion cone (réf : 265 749)
3. HNG curved plug impactor (ref: 256 852)
4. HNG straight screwdriver (ref: 256 877)
5. Tripod plug extractor (ref: 256 853)
6. 12/14 taper standard attachment (ref: 265 184)
7. 12/14 taper alumina attachment (ref: 265 185)
8. 10/12 taper attachment (ref: 265 186)
9. Cup press + screw (ref: 265 098 & 265 101)
10. Insert attachment (ref: 265 099)
11. Cup adjuster (ref: 256 876)
12. Screw rac
13. Trial Kerboull cross S50 (ref: 265 455)
14. Trial Kerboull cross S54 (ref: 265 456)
15. Trial Kerboull cross S58 (ref: 265 457)
16. Trial Kerboull cross S62 (ref: 265 458)
17. Flexible drill bite for tripod plug (ref: 263 691)
18. Pistolet a ciment (236 649)
19. Drill guide (ref: 256 842)
20. Iliac support adjuster (ref: 256 875)

REFERENCES [Dual mobility cups]

PRESSFIT DUAL MOBILITY CUPS	
256 688	Pressfit dual mobility S46
256 689	Pressfit dual mobility S48
256 690	Pressfit dual mobility S50
256 691	Pressfit dual mobility S52
256 692	Pressfit dual mobility S54
256 693	Pressfit dual mobility S56
256 694	Pressfit dual mobility S58
256 695	Pressfit dual mobility S60
256 696	Pressfit dual mobility S62
256 697	Pressfit dual mobility S64

DUAL MOBILITY LINERS	
256 709	Dual mobility liner Ø22 S46
256 720	Dual mobility liner Ø28 S48
256 721	Dual mobility liner Ø28 S50
256 722	Dual mobility liner Ø28 S52
256 723	Dual mobility liner Ø28 S54
256 724	Dual mobility liner Ø28 S56
256 725	Dual mobility liner Ø28 S58
256 726	Dual mobility liner Ø28 S60
256 727	Dual mobility liner Ø28 S62
256 728	Dual mobility liner Ø28 S64

TRIPOD DUAL MOBILITY CUPS*	
256 698	Tripod dual mobility S46
256 699	Tripod dual mobility S48
256 700	Tripod dual mobility S50
256 701	Tripod dual mobility S52
256 702	Tripod dual mobility S54
256 703	Tripod dual mobility S56
256 704	Tripod dual mobility S58
256 705	Tripod dual mobility S60
256 706	Tripod dual mobility S62
256708	Tripod dual mobility S64

* 2 pegs are delivered in sterile packaging with the cups.

CORTICAL FIXATION SCREW (STERILE)	
271 180	Ø4,5 L.30
271 181	Ø4,5 L.35
271 182	Ø4,5 L.40
271 183	Ø4,5 L.45
271 184	Ø4,5 L.50
271 185	Ø4,5 L.55
271 186	Ø4,5 L.60

CEMENTED DUAL MOBILITY CUPS	
264 388	Cemented dual mobility S46
264 389	Cemented dual mobility S48
264 390	Cemented dual mobility S50
264 391	Cemented dual mobility S52
264 392	Cemented dual mobility S54
264 393	Cemented dual mobility S56
264 394	Cemented dual mobility S58
264 395	Cemented dual mobility S60
264 396	Cemented dual mobility S62
264 397	Cemented dual mobility S64

OTHER IMPLANTS OF THE RANGE

Hip'n go - 1st intention cementless straight stems, standard or lateralized

F2H - 1st intention straight stems
Cemented - standard
Cementless - standard, lateralized or with collar

ESOP Atlas IIIP

Pharo bipolar cup

Stainless steel heads
22,2-28 mm CoCr

Biolox Delta ceramic heads
28-32-36 mm

Hip'n go UHMWPE

Hip'n go ceramic

Hip'n go dual mobility press-fit

Hip'n go
dual mobility tripod

Hip'n go cemented
dual mobility

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