



HIP



SURGICAL TECHNIQUE

**CEMENTLESS ELASTIC
ACETABULAR CUP**

ATLAS[®]



GROUP
FH ORTHO™

ATLAS[®]

SURGICAL TECHNIQUE

1. Planning and approaches

The center of rotation of the arthroplasty is determined during pre-operative planning and enables the size of the implant to be estimated. The ATLAS[®] cup instrumentation is adapted to all approaches.

2. Reaming

Once the soft tissue is clean, osteophytes will need to be removed. 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. This avoids possible anterior conflict with the psoas tendon, which can cause pain.

The reamer can be used as a template. Once the correct size has been reached the reamer will stabilize and lateral movement will no longer be possible. The bone should be reamed down to the subchondral bleeding bone, thus ensuring vascularization and bone regrowth.

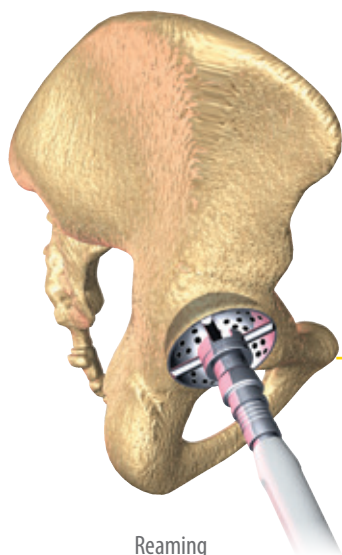
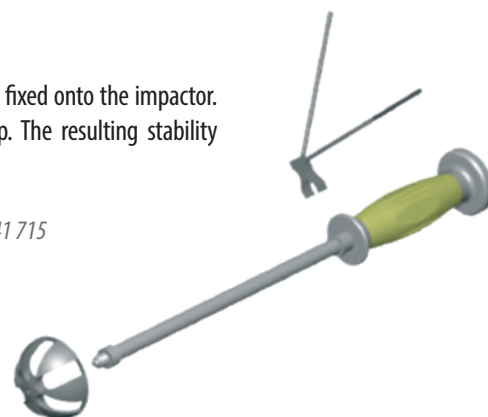
Reamers Ø44 to Ø64 ref. 241 599 to 241 609
Reamer handle ref. 241 615



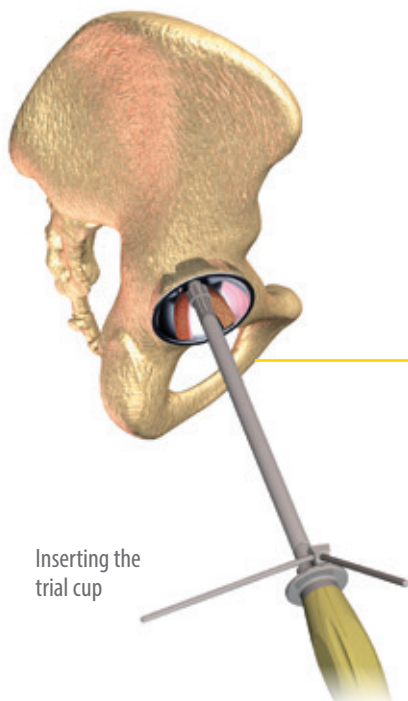
3. Cup trials

The trial cup corresponding to the last reamer used is fixed onto the impactor. A light tapping ensures its penetration into the cup. The resulting stability guaranties the stability of the final implant.

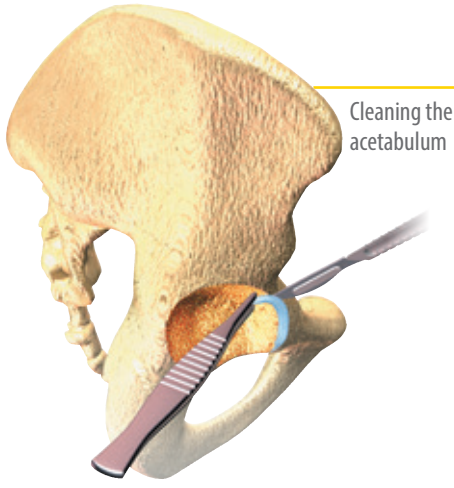
Trial rings T46 to T64 ref. 241 706 to 241 715
Straight impactor M6/M10 ref. 256 846
Guide ref. 256 847
Removable guide axis ref. 241 504



Reaming



Inserting the trial cup



Cleaning the acetabulum

4. Impacting the final cup

Prior to impactation, ensure that the acetabular cavity and cup edge have been thoroughly cleaned.

Fragments of soft tissue and bone fragment interposition could compromise primary stability of the cup.

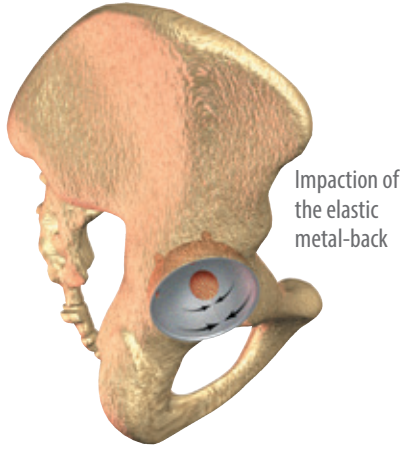
The ATLAS® cup corresponding to the size of the last used reamer is screwed tightly onto the straight M6/M10 impactor in order to ensure correct positioning. Before impactation, locate the position of the screw holes. They must be placed at the top on the impactor, on the same side as the 45° angle guide which is the vertical marker.

The metal-back is ideally at a 45° angle and cup anteversion is ideally between 10° and 20°. Final impactation with a mallet ensures an intimate bone-implant contact, controlled by the polar hole of the ATLAS®, cup after unscrewing the impactor.

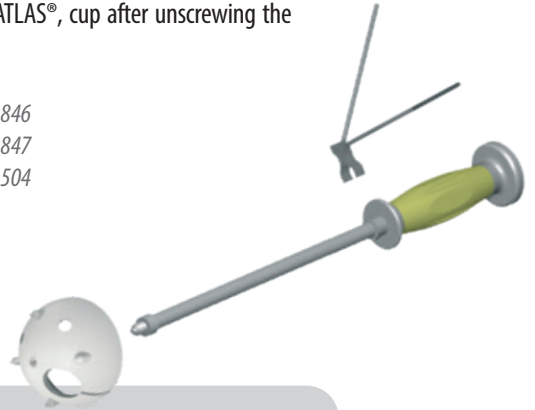
Straight impactor M6/M10 ref. 256 846

Guide ref. 256 847

Removable guide axis ref. 241 504



Impaction of the elastic metal-back



Option: Anterior approach

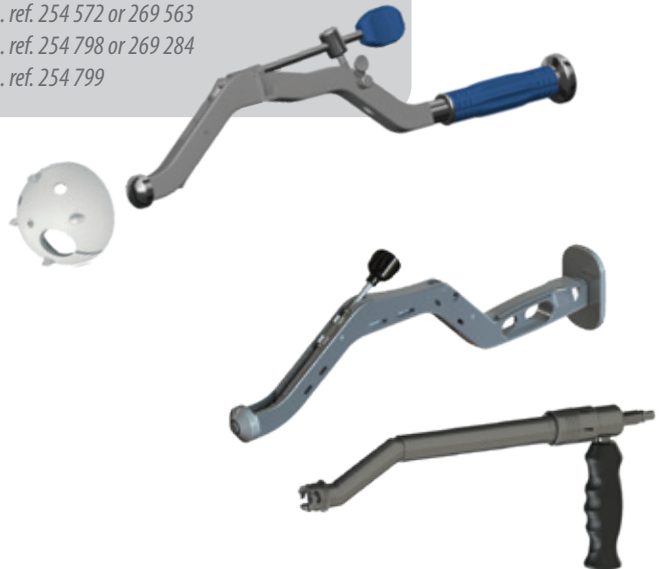
FH Orthopedics instrumentation set allows an anterior approach to be performed for the different steps described previously. This requires replacing:

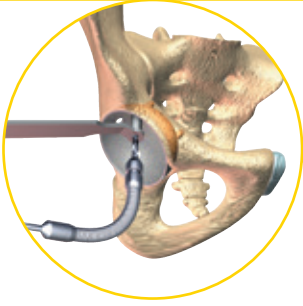
- the reamer handle with an offset reamer handle
- the straight M6/M10 impactor with an offset cup impactor.

Offset reamer handle ref. 254 572 or 269 563

Offset cup impactor ref. 254 798 or 269 284

Offset impactor guide ref. 254 799





Drilling the screw hole

5. Optional fitting of screws

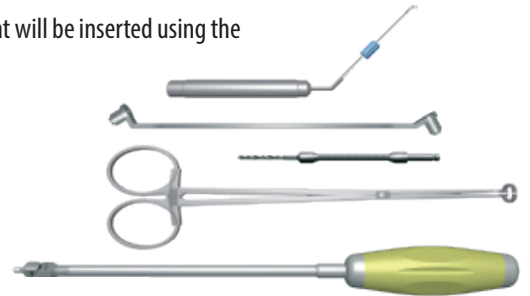
If in doubt regarding the stability of the implant, it is possible to use specific titanium cancellous bone screws, 6.5 mm in diameter.

The drilling guide is required and must be used carefully to avoid the screw head interfering with the impaction of the insert.

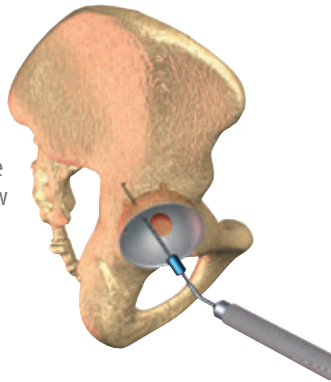
The hole is drilled with the flexible 3.2 drill bit.

The calibrator will help to select the best screw that will be inserted using the screw tongs and the cardan screwdriver.

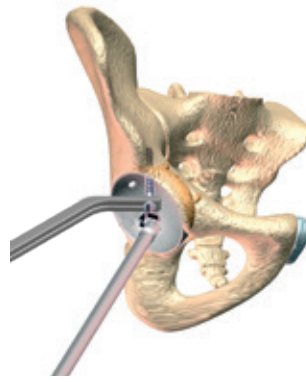
- Screw calibrator* ref. 206 976
- 2 canon 3.2 mm drill guide* ref. 252 453
- Flexible 3.2mm drill bit – L. 44mm* ref. 263 690
- Screw tongs* ref. 267 270
- Cardan 3.5 screwdriver* ref. 256 812



Calibrating the length of screw



Fitting the fixation screws



6. Fitting a polyethylene liner

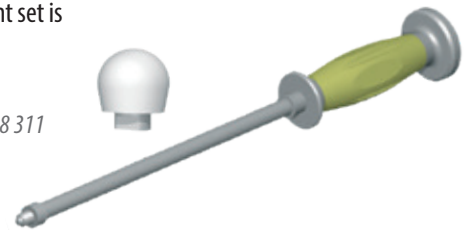
You must ensure that the interior of the cup is clean and free of soft tissue or bone fragments that could compromise correct fitting of the insert in the cup.

A **ATLAS®** cup must only be coupled with a **ATLAS®** liner of the same size.

The polyethylene liner is fitted into the cup.

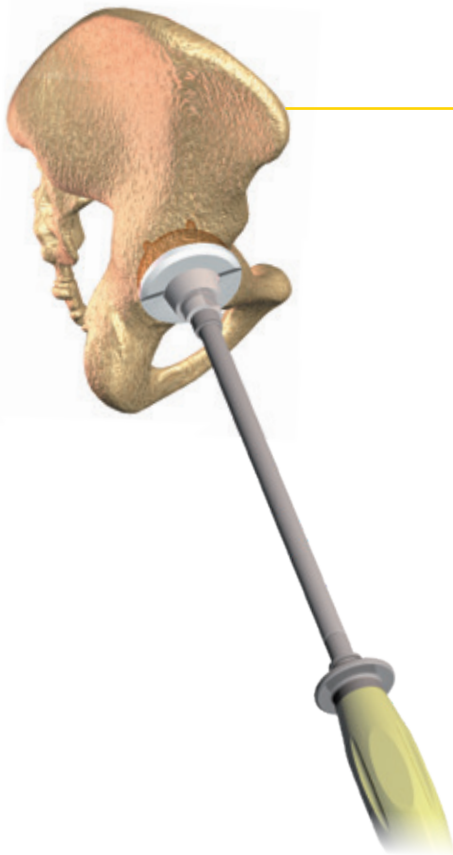
The final impactor (impaction ball) provided in the instrument set is mounted on the straight M6/M10 impactor.

- Straight M6/M10 impactor* ref. 256 846
- Teflon Impactor Ø28 to Ø 36* ref. 256 819, 256 820 & 258 311



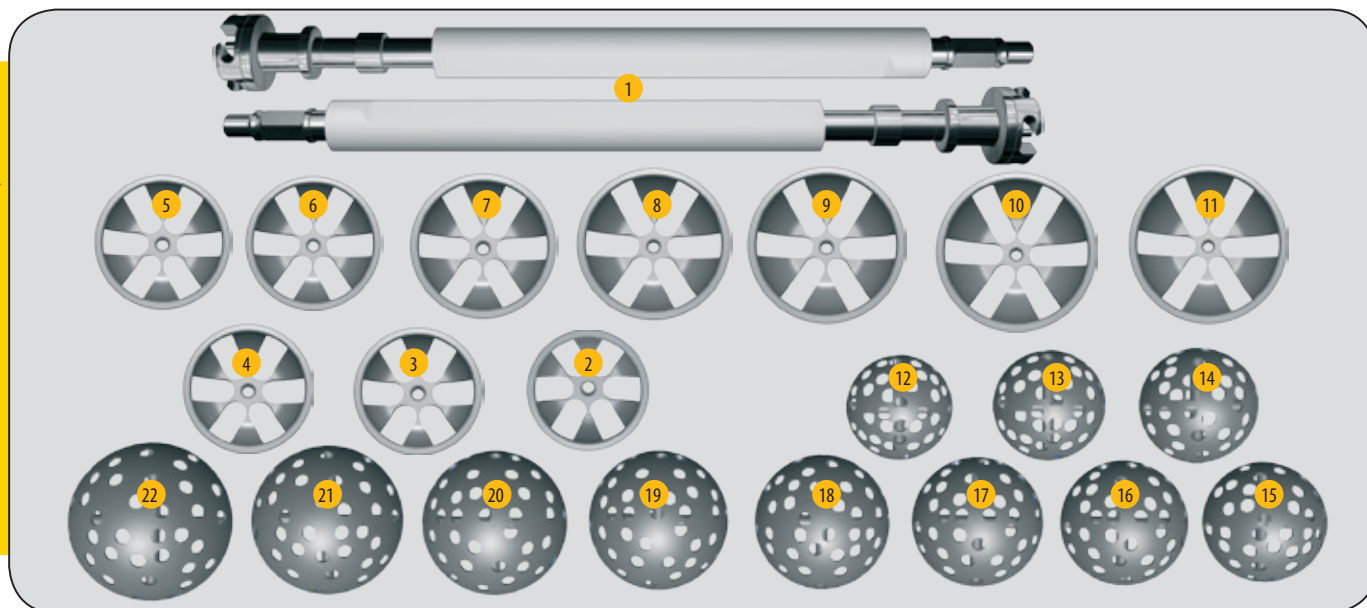
A flat key is provided in the instrument set to facilitate assembling and disassembling impaction attachments (ball or other) on the straight M6/M10 impactor.

- Flat key* ref. 257 237



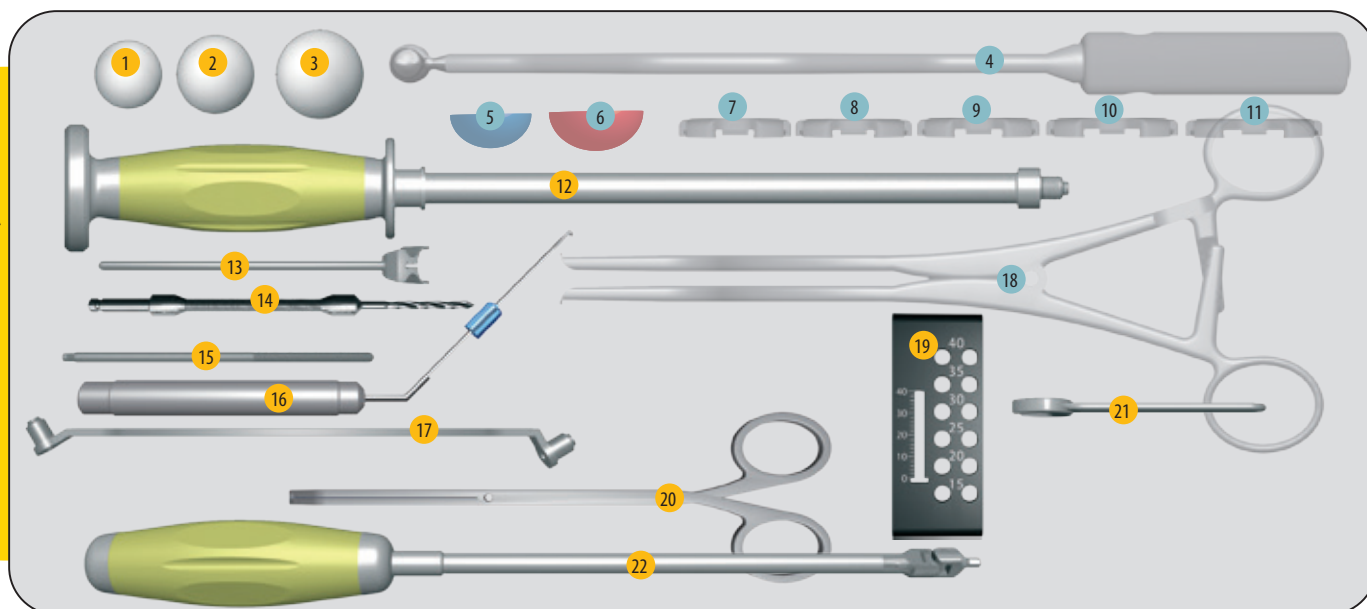
INSTRUMENT SET

Universal cup insert tray



- 1 Shaft for reamer (ref: 241 615)
- 2 Trial ring S46 (ref: 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 (ref: 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)

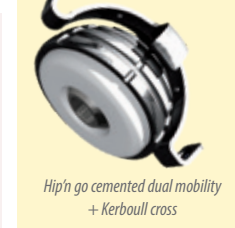
OPTION, ONLY ON REQUEST

SALES REFERENCES

SIZES	ATLAS® IIIP (with screw hole)	XPE TRIANON STD D28 LINER	XPE TRIANON STD D32 LINER	XPE TRIANON D36 LINER
46	241 363	252 472		
48	241 364	252 473		
50	241 365	252 474	256 197	
52	241 366	252 475	256 198	
54	241 367	252 476	256 199	263 673
56	241 368	252 477	256 200	263 674
58	241 369	252 478	256 201	263 675
60	241 370	252 479	256 202	263 676
62	241 371	252 480	256 203	263 677
64	241 372	252 481	256 204	263 678

STERILE FIXATION SCREWS	
245 215	Ø 6,5mm - L.15mm
245 216	Ø 6,5mm - L.20mm
245 217	Ø 6,5mm - L.25mm
245 218	Ø 6,5mm - L.30mm
245 219	Ø 6,5mm - L.35mm
245 220	Ø 6,5mm - L.40mm
245 221	Ø 6,5mm - L.45mm
245 222	Ø 6,5mm - L.50mm

OTHER IMPLANTS OF THE RANGE



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