Avenir® Hip System
Surgical Technique
## Avenir Hip System
### Surgical Technique

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Templating the Femur
To determine any leg length discrepancy on the x-ray a line should be drawn across the bottom of the ischium (Fig. 1). The distance should then be measured from the lesser trochanter to the drawn reference line. The measured difference between the two measured sides is the radiographic leg length. As an alternate reference point, the tip of the greater trochanter to the drawn reference line may also be measured.

On the AP X-ray (Fig. 2), select the femoral template size that will best:
1. restore the correct offset
2. equalize the leg length
3. fit the femur.

The femoral template should be in line with the long axis of the femur and in a neutral position. The proximal tip of the prosthesis and the tip of the greater trochanter are suitable reference points for determining the height of the final implant.

Surgical Technique
Avenir® Müller Stem

The Avenir Müller Stem can be implanted via different operative approaches. The individual surgical steps shown below are for a conventional posterolateral approach with the patient in lateral position (lateral decubitus). However, all technical details can be adapted to other kinds of approaches, including MIS.

1. The patient is in lateral decubitus.
   Incision of the fascia lata and partial dissociation of the femoral insertion of the gluteus maximus.
   Insertion of a Hohmann lever under the gluteus medius on the level of the femoral neck.
   Exposure and division of the outer rotators and of the dorsal articular capsule.
2. Dislocation of the hip by a combined movement with internal rotation, flexion and adduction. Resection of the residual capsule and osteotomy of the femoral neck according to the pre-operative planning. Removal of the femoral head.

3. Insertion of the Hohmann levers and exposure of the acetabulum. Preparation of the acetabulum and implantation of the cup.

4. Preparation of the femoral canal: the medial section of the greater trochanter is carefully prepared with the boxed chisel and the Luer Rongeur. Opening of the medullary cavity using the T-handle awl. In order to avoid varus positioning, the awl should be positioned close to the tip of the greater trochanter.

5. Insertion of the smallest rasp taking into account the correct anteverision and effectively rasping the greater trochanter (without ever touching the cancellous bone in the femoral calcar). Start with the smallest rasp and progress to the predetermined size. The handle must be adapted to the selected approach (e.g. a straight handle for the posterior lateral approach).

6. Once a satisfactory stability is obtained with the rasp that usually matches the planned size, the handle is removed from the rasp.
7. The modular rasp serves as a test prosthesis. The trial neck is positioned onto the rasp either by hand or using the trial neck-holder. The trial head is mounted on the neck.

8. Trial reduction and checking of the leg length, the muscle tension, the range of motion and the stability of the joint. Any differences in length are examined, the head and the trial neck are then removed, the handle is reconnected to the rasp and used for its removal, making space for the insertion of the final implant.

9. The stem is driven into the femur by an impactor until the edge of the hydroxyapatite coating corresponds to the insertion depth of the rasp. Special attention on the anteversion is necessary during the first few centimeters of insertion only, as subsequently the implant positions itself in the implant bed.
Jet lavage and drying
Rinse and dry again the medullary canal to remove any remaining bone debris.

Cementing
Use high viscosity cement in combination with a third generation technique. Examine the viscosity of the cement. The cement is deemed suitable for insertion when it does not stick to surgeon gloves and appears doughy. Insert and press the cement in a retrograde manner. The cement needs to be constantly pressurized to ensure proper interdigitiation of the cement in the bone.

Final stem insertion
Use the same size stem as the final rasp. Use of incorrect stem size may result in stem subsidence or stem deformation/instability or fracture. The point of insertion should be lateral and close to greater trochanter. Insert the final stem using the stem inserter with closed pressing of stem. During insertion maintain thumb pressure on the cement and insert the stem up to the resection level. If necessary, use the stem impactor to provide few taps to drive the stem inside the cement until the laser etched line corresponds to the insertion depth of the rasp. Maintain high pressure till the cement polymerizes completely. Remove excess cement using curette.

Head impaction
If necessary, a trial reduction is carried out first with the trial head.

After the cement has hardened completely, and the taper has been carefully rinsed and dried, the final ball head is mounted with a rotatory movement. Locking of the head by means of a light hammer blow on the reduction lever.

Final check and wound closure
The joint components are reduced, and the function check repeated. Closure of the wound is followed.
Postoperative Treatment

The postoperative treatment depends on the patient and the bone quality. Immediate weight bearing can be allowed in agreement with the orthopedic surgeon and mobilization may be started on the first postoperative day depending on the individual rehabilitation protocol. Crutches should be used until the patient is able to walk safely without limping.

Implants

Avenir Müller Stem

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The range covers 9 standard and 9 lateraled sizes.

The difference between two sizes (frontal view) varies by 0.9 mm for sizes 1 and 2 and by 2.3 mm for sizes 8 and 9.

This choice of size increments allows a precise insertion of the small sizes which can be more challenging.

Materials

Stem:
Protasul® 64WF Forged Titanium, Aluminum 6 and Vanadium 4 Alloy ISO 5832-3

Coating:
Layer made of nonalloyed titanium ISO 5832-2 and hydroxyapatite Ca5(OH) (PO4)3 – ISO 13779-2
Implants

Avenir® Cemented Hip Stem

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Range, sizing, neck length, offset and stem length are the same as for Avenir Müller Stem. Please refer to the table page 13.

Material

Stem: Protasul®-S30 Stainless Steel Alloy ISO 5832-9

* Not available in the United States.

Outside USA

Instruments with Trunnion Connection

For use with cementless and cemented techniques

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Avenir® Hip System – Surgical Technique
Upon request

MIS A/S Double Offset Rasp Handle 45°

Left  00-7808-035-01
Right  00-7808-035-02

Trial Head 12/14

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Instruments with Alloclassic® Zweymüller®/CLS® Spotorno® Connection Type

For use with cementless and cemented techniques

Avenir® Hip System – Surgical Technique

Upon request

MIS Double Offset Rasp Handle 45°

Left  01.00001.003
Right  01.00001.002

Standard Tray Cover

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Avenir® Hip System Instrument Tray

(complete) REF 2501.06010.902

Avenir® Hip System Tray Base

(Empty) REF 01.06010.910

Avenir® Hip System Instrument Tray for MIS Handles (empty) REF 01.06010.911

Avenir® Müller Modular Rasp

Size REF
1 01.06610.001
2 01.06610.002
3 01.06610.003
4 01.06610.004
5 01.06610.005
6 01.06610.006
7 01.06610.007
8 01.06610.008
9 01.06610.009

Avenir® Müller MIS Modular Trial Neck, Standard

REF 01.06510.000

Avenir® Müller MIS Modular Trial Neck, Lateral

REF 01.06510.100

Straight Handle for Modular Rasps

REF 01.00001.001

Upon request

MIS Double Offset Rasp Handle with Strike Plate

right 01.00001.002
left 01.00001.003

Avenir® Müller MIS Modular Trial Neck, Standard

REF 01.06510.000

Avenir® Müller MIS Modular Trial Neck, Lateral

REF 01.06510.100

Straight Handle for Modular Rasps

REF 01.00001.001

Upon request

MIS Double Offset Rasp Handle with Strike Plate

right 01.00001.002
left 01.00001.003
### General Instruments (available with both instruments connection types)

**For use with cementless and cemented techniques**

- **Long Bar**
  - REF: 70.00.01

- **Stem Impactor**
  - REF: 01.06310.004

- **Repositioning Lever**
  - REF: 75.11.00-02

- **Repositioning Top**
  - REF: 75.13.02-10

- **Ball-Head Impactor Attachment**
  - REF: 78.00.38

- **Trial Neck Holder**
  - REF: 01.06510.001

- **Trial Head 12/14**
  - Dimensions: S 78.00.38-28, M 78.00.38-32, L 78.00.38-36, XL 78.00.38-36

- **Extractor with Small Sliding Hammer**
  - REF: 01.06808.300

- **Extended Awl**
  - REF: 70.08.89

- **Box Chisel**
  - REF: 72.13.02-10

### Upon request

- **Trial Head 12/14**
  - Dimensions: S 01.01559.128, M 01.01559.228, L 01.01559.328, XL 01.01559.428

- **Measure cone**
  - Dimensions: 8 5951, 11 5952, 12 5953, 14 5954, 15 5955, 16 5956, 19 5961, 21 5962

### Cementing Instruments

**To be ordered separately for use with the cemented technique.**

- **Setting instrument for measuring cones with scale**
  - Dimensions: 5950

- **Cementing Instruments**

- **Measure cone**
  - Dimensions: 8 1 5951, 11 2 5952, 12 2.5 5953, 14 3 5954, 15 3.5 5955, 16 4 5956, 19 5 5961, 21 6W 5962

### Cementing Instruments

- **Setting instrument for measuring cones with scale**
  - Dimensions: 5950
**Avenir® Hip System – Surgical Technique**

**Instruments**
For use with cementless and cemented techniques

- Avenir® Hip System Instrument Tray (complete)  REF KT-AVNR-0903
- Avenir® Hip System Base Instrument Tray (empty)  REF 00-6300-004-00
- Avenir® Hip System Insert Tray for Instruments with Trunnion Connection (empty)  REF 00-6300-005-00
- Avenir® Hip System Instrument Tray (complete)  REF KT-AVNR-0903
- Avenir® Hip System Base Instrument Tray (empty)  REF 00-6300-004-00
- Avenir® Hip System Insert Tray for Instruments with Trunnion Connection (empty)  REF 00-6300-005-00
- Standard Tray Cover  REF 00-5900-099-00
- Avenir® Müller Modular Rasp
  - 1  REF 01.06620.001
  - 2  REF 01.06620.002
  - 3  REF 01.06620.003
  - 4  REF 01.06620.004
  - 5  REF 01.06620.005
  - 6  REF 01.06620.006
  - 7  REF 01.06620.007
  - 8  REF 01.06620.008
  - 9  REF 01.06620.009
- Avenir® Müller MIS Modular Trial Neck, Standard  REF 01.06520.000
- Straight Rasp Handle 45°  REF 00-7712-050-60
- Avenir® Müller MIS Modular Trial Neck, Lateral  REF 01.06520.100
- MIS Double Offset Rasp Handle
  - Left  REF 00-7712-035-01
  - Right  REF 00-7712-035-02
- MIS A/S Double Offset Rasp Handle 45°
  - Left  REF 00-7808-035-01
  - Right  REF 00-7808-035-02

**FOR US MARKET ONLY**

**Upon request**

- MIS Double Offset Rasp Handle
  - Left  REF 00-7712-035-01
  - Right  REF 00-7712-035-02
- MIS A/S Double Offset Rasp Handle 45°
  - Left  REF 00-7808-035-01
  - Right  REF 00-7808-035-02
General Instruments
For use with cementless and cemented techniques

- **Long Bar**
  - **REF**: 70.00.01

- **Stem Impactor**
  - **REF**: 01.06310.004

- **Repositioning Lever**
  - **REF**: 75.11.00-02

- **Repositioning Top**
  - **∅**: 28
    - **REF**: 78.00.38-28
    - **∅**: 32
    - **REF**: 78.00.38-32
    - **∅**: 36
    - **REF**: 78.00.38-36

- **Ball-Head Impactor Attachment**
  - **REF**: 78.00.38

- **Femoral Head Provisionals**
  - **Size**
    - **Quantity**
    - **REF**
    - **∅**: 28 mm (-3.5) 1 00-7895-028-01
    - **∅**: 28 mm (+0) 1 00-7895-028-02
    - **∅**: 28 mm (+3.5) 1 00-7895-028-03
    - **∅**: 28 mm (+7.0) 1 00-7895-028-14
    - **∅**: 28 mm (+10.5) 1 00-7895-028-05
    - **∅**: 32 mm (-3.5) 1 00-7895-032-01
    - **∅**: 32 mm (+0) 1 00-7895-032-02
    - **∅**: 32 mm (+3.5) 1 00-7895-032-03
    - **∅**: 32 mm (+7.0) 1 00-7803-032-14
    - **∅**: 32 mm (+10.5) 1 00-7895-032-05
    - **∅**: 36 mm (-3.5) 1 00-7895-036-01
    - **∅**: 36 mm (+0) 1 00-7895-036-02
    - **∅**: 36 mm (+3.5) 1 00-7895-036-03
    - **∅**: 36 mm (+7.0) 1 00-7895-036-04
    - **∅**: 36 mm (+10.5) 1 00-7895-036-05

- **Extractor with Small Sliding Hammer**
  - **REF**: 01.06808.300

- **Ball-Head Impactor Attachment**
  - **REF**: 78.00.38

- **Extended Awl**
  - **REF**: 70.08.89

- **Box Chisel**
  - **REF**: 72.13.02-10

Cementing Instruments
To be ordered separately for use with the cemented technique.

- **Measure cone**
  - **∅**: 8
    - **Size**: 1
    - **REF**: 5951
  - **∅**: 11
    - **Size**: 2
    - **REF**: 5952
  - **∅**: 12
    - **Size**: 2.5
    - **REF**: 5958
  - **∅**: 14
    - **Size**: 3
    - **REF**: 5953
  - **∅**: 15
    - **Size**: 3.5
    - **REF**: 5959
  - **∅**: 16
    - **Size**: 4
    - **REF**: 5954
  - **∅**: 19
    - **Size**: 5
    - **REF**: 5955
  - **∅**: 21
    - **Size**: 6W
    - **REF**: 5961
  - **∅**: 24
    - **Size**: 7W
    - **REF**: 5962

- **Setting instrument for measuring cones with scale**
  - **∅**: 17
    - **Size**: Ref
    - **REF**: 5950

* Not available in the United States.
Disclaimer

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