OHST
medical technology

# Müller II Cup

## SURGICAL INSTRUCTIONS

# CONTENTS

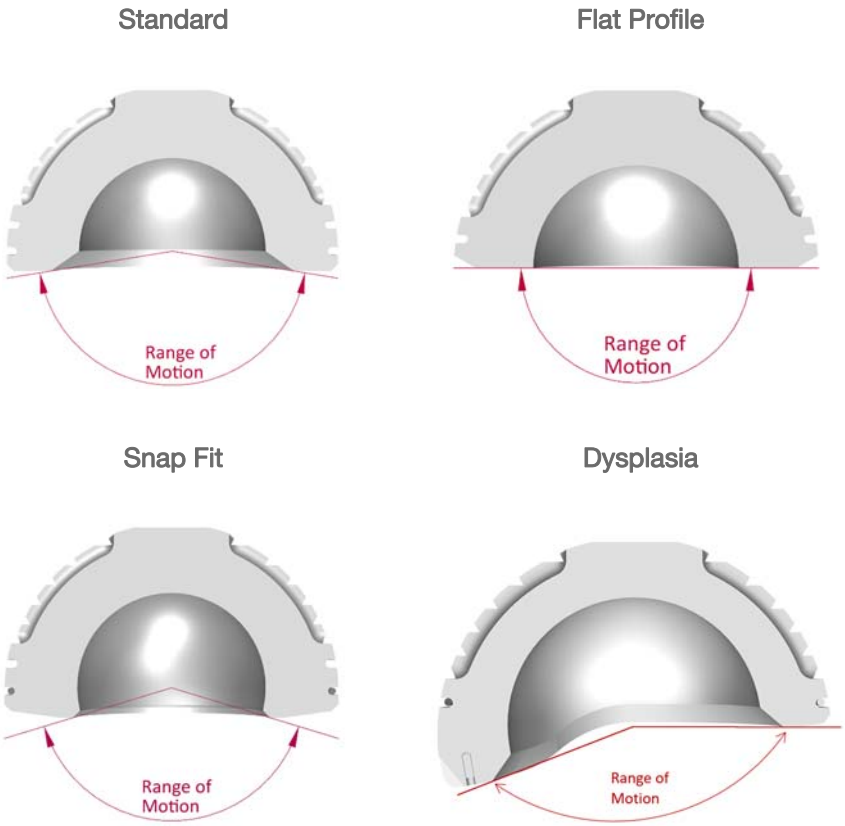
# INTRODUCTION AND PRODUCT DESCRIPTION

Years of experience with excellent clinical results in the implantation of cemented acetabular implants led to the development of the Müller II Cup.
The Müller II Cup is made of UHMWPE in accordance with ISO 5834-2 and is available in numerous sizes and variants. The standard variant and the flat profile as well as the snap-fit variant are supplied with internal diameters of 22 mm, 28 mm and 32 mm. Furthermore, a dysplasia variant for spherical heads with a diameter of 28 mm and 32 mm is available. To ensure radiographic visibility, all implants are equipped with an implant steel ring.

The hemispherical outer cup guarantees a professional and safe insertion into the reamed acetabulum.
The Müller II Cup is made of structured polyethylene on the outside to ensure the best possible and even fixation inside the cement.

Instruments that have been optimized for this implant ensure a safe surgical operation.

## Comparison Range of Motion of the variants of Müller II Cup




When using Snap or Dysplasia cups or cup inserts, the movement range in flexion and extension is reduced by approximately 55° (Snap) and 27° (Dysplasia) and in abduction and adduction by approximately 22° (Snap) and 10° (Dysplasia) as compared to the standard application.

* The Range of Motion is additionally influenced by further combined components.

## Indications for the use of the Müller II Cup

- Advanced degeneration of the hip joint due to degenerative, post-traumatic or rheumatoid arthritis
- Avascular necrosis of the femoral head
- Displaced intracapsular hip fracture
- Sequelae of earlier surgical procedures (osteosynthesis, articular reconstruction, arthrodesis, etc.)

## Contraindications for the use of the Müller II Cup

- Acute local (in relation to the joint undergoing surgery) or active systemic infection
- Insufficient bone substance or quality that does not allow for stable fixation of the implant
- Hypersensitivity to the materials used
- Severe osteoporosis
- Severe malformations, congenital hip dislocations
- Local bone tumours that preclude stable fixation of the implant
- Growth in children and adolescents

## Risk factors and conditions that may affect the success of the surgery

**Caution:**
Clinical experience has shown that the presence of one or more of the following concomitant circumstances (risk factors) may lead to shorter service lives, more frequent complications or an altogether poorer outcome of hip arthroplasty. This list is by no means exhaustive.

General risk factors and conditions:

- Overweight
- Alcohol or substance abuse
- Patient groups with mental disorders or addictions
- Pregnancy
- High-dose ingestion of cortisone or cytostatics
- Previous or threatening infectious diseases with possible joint involvement
- Deep vein thrombosis and/or history of pulmonary embolism
- Systemic diseases and metabolic disorders
- All general surgical risks

Risk factors and conditions specific to hip arthroplasty:

- Occurrence of fissures, in rare cases fractures
- Circulatory disorders of the affected limb
- Neurological disorders of the affected limb
- Muscle malfunction in the affected limb
- Muscle spasms or other spastic conditions
- Anticipated extreme loading e.g. due to work and sport
- Epilepsy or other reasons for repeated trauma with an increased risk of fracture
- Joint deformities that make fixation of the implant difficult
- Weakening of the bearing structures by tumour (e.g. bone cyst, non-ossifying fibroma)
- Loss of the ligamenture

# SURGICAL TECHNIQUE

The information provided in the Surgical Technique constitutes recommendations and notes only the detailed implementation or the implementation options depend on the individual abilities and experience of the user.
For more detailed information about the implant system and the instruments, please see the respective Instructions for Use.

## Preoperative planning

As part of preoperative planning

- the anticipated size of the implant can be determined
- the ideal location with respect to the depth and position of the cup in the acetabulum can be identified

A cement coating of 2 mm must be taken into account during planning. The final cup size is determined intraoperatively by the surgeon. The final decision is based on the size of the last acetabulum reamer or on the size of the size tester. The size may differ from the size planned on the X-ray image.

For the preoperative planning there are X-ray templates available in an analogous shape with a magnification of 15%. Furthermore, digital X-ray templates at a scale of 1:1 for use with the planning software MediCAD* are available for downloading by default. Figure 1 shows the preoperative planning of a Müller II standard cup with an SPC hip stem.

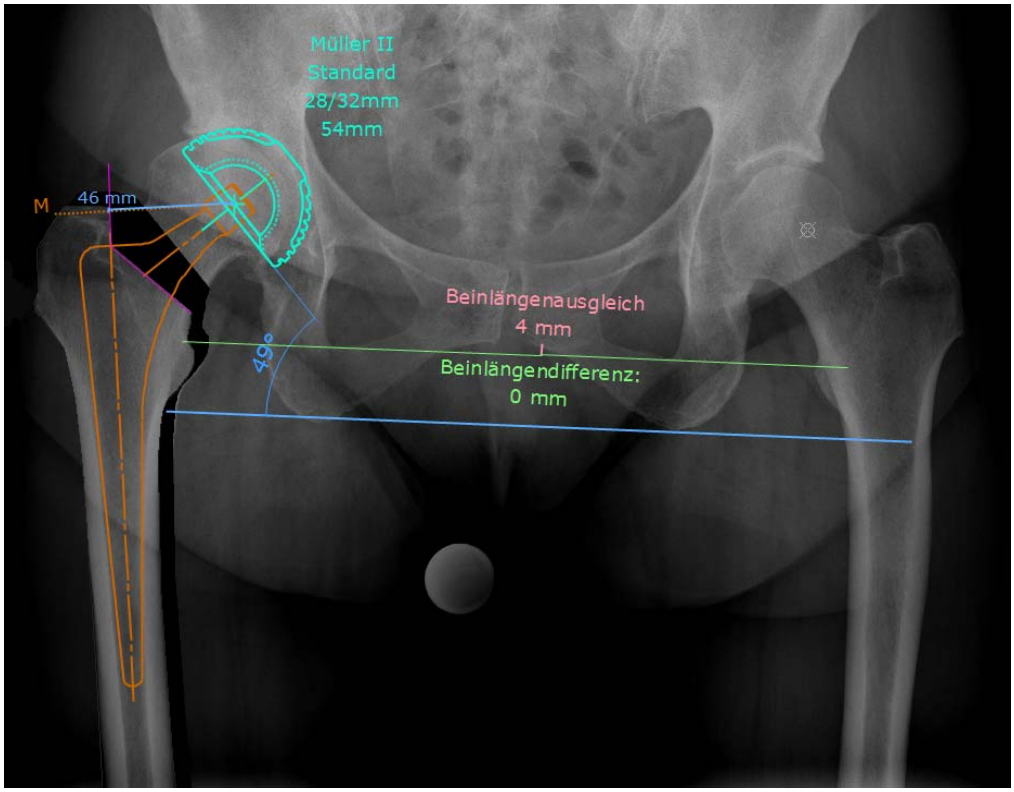



Figure 1: Example of preoperative planning (using the MediCAD software)

* On request we will provide the digital X-ray templates in databases of other suppliers for digital planning software.

## Approach to the hip

Any approach to the hip joint considered appropriate by the surgeon is possible. The surgeon should have a good view of the anatomical structures so that correct working with the instruments is not impeded.

## Resection of the femoral neck

- After opening the joint capsule and dislocating the femoral head from the acetabulum, the femoral head is resected as determined in the preoperative planning of the hip stem (Figure 2).
- The femoral head must be removed in full.

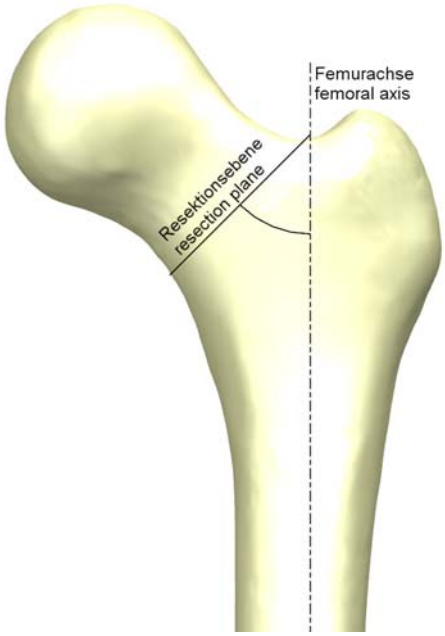



Figure 2: Resection of the femoral head

## Preparation of the implant site

There is an approved and practical instrument set available for implantation of the Müller II Cup.

- Ream the acetabulum with spherical acetabulum reamers in ascending order, starting with the smallest (Figure 3).

**Note:**
Always let the reamers move freely.
Never apply force, always allow the reamer to move freely. The final reamer size in particular must not be distorted as a result of lateral pressure!

- The base of the cup should be completely free from cartilage and the subchondral bone should bleed evenly.

Figure 3: Grinding out the acetabulum

**Note:**
The bony mass from the last reaming can be reserved to fill in any potential gaps between the implant and the acetabulum.

**Caution:**
The diameter (nominal size) of the last acetabulum reamer used has to be at least 4 mm larger than the smallest Müller II Cup available to ensure a cement coating of 2 mm all around.

## Definition of the cup size

- Insertion of the equatorial size tester according to the reamer size (Figure 4).
- The alignment (45° inclination and 10° anteversion) of the cup is checked using the equatorial size tester. A positioning guide for cups is optionally available for this (see optional accessories).

**Note:**
The equatorial size tester should remain in place through suction and be surrounded by a sufficient quantity of bone.

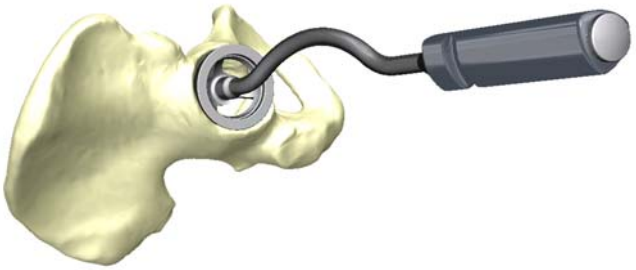


Figure 4: Definition of the cup size

- After these surgical steps are complete, the accurate implant size can be selected.

## Note on removing the implants

Depending on the sterilisation method used, implants are packaged in a triple transparent pouch made of plastic laminated film (sterilisation by irradiation at least 25 kGy) or in a double transparent pouch made of Tyvek® (ethylene oxide sterilisation) with a carton.
The outer pouch of the triple transparent pouch packaging is to be removed by the non-sterile personnel together with the carton. For the double transparent pouch packaging, only the carton is to be removed by the non-sterile personnel. The second pouch must be opened such that the sterility of the inner pouch is not compromised. The inner pouch is removed and opened by the sterile personnel. The implant must then be presented to the surgeon, who can then directly remove the sterile implant.

## Implantation of the cup

- Mix the bone cement as per the manufacturer's instructions and insert it into the prepared implant bed (Figure 5).

**Note:**
The Müller II Cup is designed exclusively for implantation with bone cement.

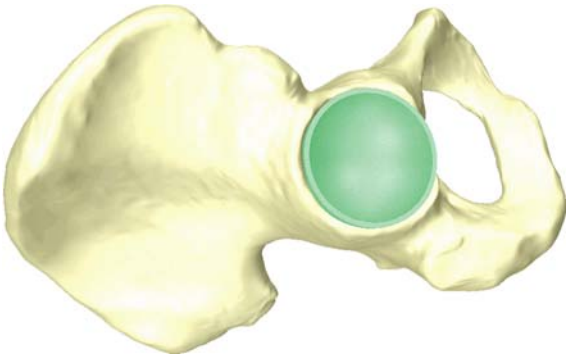


Figure 5: Inserted cement coating

- The inserted cement coating has to be thicker than 2 mm, as bone cement is displaced when inserting the Müller II Cup.

- Insert the required Müller II Cup (standard, flat, snap or dysplasia) using the curved handle and the corresponding insertion head (Figure 6 and Figure 7).

**Note:**
The size of the implant to be used has to be 4 mm smaller than the size of the equatorial size tester selected.

Figure 6: Connection of the components for insertion of the Müller II Cup

- Push the cup into the previously applied bone cement and align it according to the preoperative planning.
- Apply mild pressure and wait until the bone cement has set (note manufacturer's instructions).

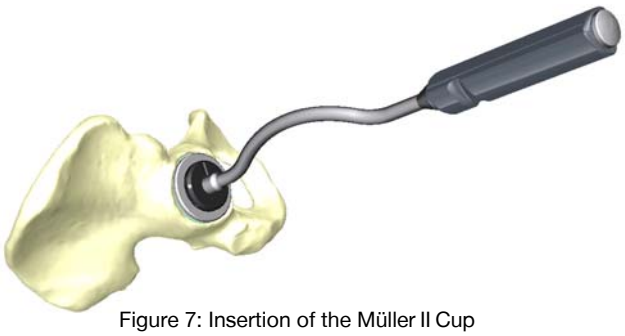


Figure 7: Insertion of the Müller II Cup

**Note:**
The cup is given the necessary stability through permeation of the cement into the prepared grooves.

**Caution:**
It must be ensured that a cement coating of around 2 mm is achieved. Excess cement has to be removed with the utmost care, preventing damage of the cup or cement particles from penetrating the inner articulation surface.

## Continuation of the operation

- The insertion of the cup is now complete (Figure 8).
- It can also be covered by small sterile compresses to avoid damage during the further course of the surgical procedure.
- The operation is then continued with the implantation of the hip stem. The femoral head to be implanted must be suitable for use with the Müller II Cup!
- The operation is routinely completed with the standard wound closure.

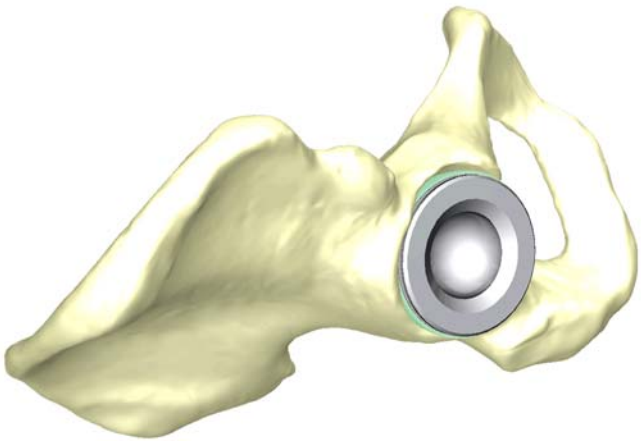


Figure 8: Inserted implant

**Note:**
If a compress was used for covering, it has to be removed again prior to the reduction.

## Special notes about the Müller II Cup Snap

**Note:**
When using the snap variant of the Müller II cup, greater resistance has to be overcome to reduce the femoral head into the cup than with the other Müller II cup variants.

**Note:**
When using the snap variant of the Müller II cup, reduction of the femoral head is only possible after flexion/anteversion of the thigh until the chamfer in the neck area of the femoral head protrudes into the internal contour of the cup, allowing air to escape from the joint body. Otherwise an air pocket would form, thus preventing the femoral head from snapping into place.

**Note:**
After reduction of the femoral head, the correct fit of the femoral head inside the cup has to be verified. The connection between the two implants is correct when the femoral head noticeably snaps into the cup.

# IMPLANTS

## Müller II Cup Standard (ISO 5834-2 UHMWPE)

Figure 9:Müller II Cup Standard

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Standard) Ø36 | cemented, ISO 5834-2 UHMWPE | 22 | 1300-22-36 |
| Mueller II Cup (Standard) Ø38 | cemented, ISO 5834-2 UHMWPE | 22 | 1300-22-38 |
| Mueller II Cup (Standard) Ø40 | cemented, ISO 5834-2 UHMWPE | 22 | 1300-22-40 |
| Mueller II Cup (Standard) Ø42 | cemented, ISO 5834-2 UHMWPE | 22 | 1300-22-42 |
| Mueller II Cup (Standard) Ø44 | cemented, ISO 5834-2 UHMWPE | 22 | 1300-22-44 |
| Mueller II Cup (Standard) Ø42 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-42 |
| Mueller II Cup (Standard) Ø44, | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-44 |
| Mueller II Cup (Standard) Ø46, | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-46 |
| Mueller II Cup (Standard) Ø48 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-48 |
| Mueller II Cup (Standard) Ø50 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-50 |
| Mueller II Cup (Standard) Ø52 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-52 |
| Mueller II Cup (Standard) Ø54 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-54 |
| Mueller II Cup (Standard) Ø56 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-56 |
| Mueller II Cup (Standard) Ø58 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-58 |
| Mueller II Cup (Standard) Ø60 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-60 |
| Mueller II Cup (Standard) Ø62 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-62 |
| Mueller II Cup (Standard) Ø64 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-64 |
| Mueller II Cup (Standard) Ø66 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-66 |
| Mueller II Cup (Standard) Ø68 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-68 |
| Mueller II Cup (Standard) Ø70 | cemented, ISO 5834-2 UHMWPE | 28 | 1300-28-70 |

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Standard) Ø44, | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-44 |
| Mueller II Cup (Standard) Ø46, | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-46 |
| Mueller II Cup (Standard) Ø48 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-48 |
| Mueller II Cup (Standard) Ø50 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-50 |
| Mueller II Cup (Standard) Ø52 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-52 |
| Mueller II Cup (Standard) Ø54 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-54 |
| Mueller II Cup (Standard) Ø56 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-56 |
| Mueller II Cup (Standard) Ø58 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-58 |
| Mueller II Cup (Standard) Ø60 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-60 |
| Mueller II Cup (Standard) Ø62 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-62 |
| Mueller II Cup (Standard) Ø64 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-64 |
| Mueller II Cup (Standard) Ø66 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-66 |
| Mueller II Cup (Standard) Ø68 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-68 |
| Mueller II Cup (Standard) Ø70 | cemented, ISO 5834-2 UHMWPE | 32 | 1300-32-70 |

## Müller II Cup Flat (ISO 5834-2 UHMWPE)

Figure 10: Müller II Cup Flat

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Flat) Ø36 | cemented, ISO 5834-2 UHMWPE | 22 | 1301-22-36 |
| Mueller II Cup (Flat) Ø38 | cemented, ISO 5834-2 UHMWPE | 22 | 1301-22-38 |
| Mueller II Cup (Flat) Ø40 | cemented, ISO 5834-2 UHMWPE | 22 | 1301-22-40 |
| Mueller II Cup (Flat) Ø42 | cemented, ISO 5834-2 UHMWPE | 22 | 1301-22-42 |
| Mueller II Cup (Flat) Ø44 | cemented, ISO 5834-2 UHMWPE | 22 | 1301-22-44 |

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Flat) Ø42 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-42 |
| Mueller II Cup (Flat) Ø44, | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-44 |
| Mueller II Cup (Flat) Ø46, | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-46 |
| Mueller II Cup (Flat) Ø48 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-48 |
| Mueller II Cup (Flat) Ø50 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-50 |
| Mueller II Cup (Flat) Ø52 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-52 |
| Mueller II Cup (Flat) Ø54 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-54 |
| Mueller II Cup (Flat) Ø56 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-56 |
| Mueller II Cup (Flat) Ø58 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-58 |
| Mueller II Cup (Flat) Ø60 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-60 |
| Mueller II Cup (Flat) Ø62 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-62 |
| Mueller II Cup (Flat) Ø64 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-64 |
| Mueller II Cup (Flat) Ø66 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-66 |
| Mueller II Cup (Flat) Ø68 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-68 |
| Mueller II Cup (Flat) Ø70 | cemented, ISO 5834-2 UHMWPE | 28 | 1301-28-70 |
| Mueller II Cup (Flat) Ø44, | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-44 |
| Mueller II Cup (Flat) Ø46, | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-46 |
| Mueller II Cup (Flat) Ø48 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-48 |
| Mueller II Cup (Flat) Ø50 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-50 |
| Mueller II Cup (Flat) Ø52 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-52 |
| Mueller II Cup (Flat) Ø54 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-54 |
| Mueller II Cup (Flat) Ø56 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-56 |
| Mueller II Cup (Flat) Ø58 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-58 |
| Mueller II Cup (Flat) Ø60 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-60 |
| Mueller II Cup (Flat) Ø62 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-62 |
| Mueller II Cup (Flat) Ø64 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-64 |
| Mueller II Cup (Flat) Ø66 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-66 |
| Mueller II Cup (Flat) Ø68 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-68 |
| Mueller II Cup (Flat) Ø70 | cemented, ISO 5834-2 UHMWPE | 32 | 1301-32-70 |

## Müller II Cup Snap (ISO 5834-2 UHMWPE)

Figure 11: Müller II Cup Snap

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Snap) Ø36 | cemented, ISO 5834-2 UHMWPE | 22 | 1310-22-36 |
| Mueller II Cup (Snap) Ø38 | cemented, ISO 5834-2 UHMWPE | 22 | 1310-22-38 |
| Mueller II Cup (Snap) Ø40 | cemented, ISO 5834-2 UHMWPE | 22 | 1310-22-40 |
| Mueller II Cup (Snap) Ø42 | cemented, ISO 5834-2 UHMWPE | 22 | 1310-22-42 |
| Mueller II Cup (Snap) Ø44 | cemented, ISO 5834-2 UHMWPE | 22 | 1310-22-44 |
| Mueller II Cup (Snap) Ø42 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-42 |
| Mueller II Cup (Snap) Ø44, | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-44 |
| Mueller II Cup (Snap) Ø46, | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-46 |
| Mueller II Cup (Snap) Ø48 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-48 |
| Mueller II Cup (Snap) Ø50 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-50 |
| Mueller II Cup (Snap) Ø52 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-52 |
| Mueller II Cup (Snap) Ø54 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-54 |
| Mueller II Cup (Snap) Ø56 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-56 |
| Mueller II Cup (Snap) Ø58 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-58 |
| Mueller II Cup (Snap) Ø60 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-60 |
| Mueller II Cup (Snap) Ø62 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-62 |
| Mueller II Cup (Snap) Ø64 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-64 |
| Mueller II Cup (Snap) Ø66 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-66 |
| Mueller II Cup (Snap) Ø68 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-68 |
| Mueller II Cup (Snap) Ø70 | cemented, ISO 5834-2 UHMWPE | 28 | 1310-28-70 |
| Mueller II Cup (Snap) Ø44, | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-44 |

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Snap) Ø46, | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-46 |
| Mueller II Cup (Snap) Ø48 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-48 |
| Mueller II Cup (Snap) Ø50 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-50 |
| Mueller II Cup (Snap) Ø52 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-52 |
| Mueller II Cup (Snap) Ø54 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-54 |
| Mueller II Cup (Snap) Ø56 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-56 |
| Mueller II Cup (Snap) Ø58 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-58 |
| Mueller II Cup (Snap) Ø60 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-60 |
| Mueller II Cup (Snap) Ø62 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-62 |
| Mueller II Cup (Snap) Ø64 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-64 |
| Mueller II Cup (Snap) Ø66 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-66 |
| Mueller II Cup (Snap) Ø68 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-68 |
| Mueller II Cup (Snap) Ø70 | cemented, ISO 5834-2 UHMWPE | 32 | 1310-32-70 |

## Müller II Cup Dysplasia (ISO 5834-2 UHMWPE)

Figure 12: Müller II Cup Dysplasia

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Dysplasia) Ø42 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-42 |
| Mueller II Cup (Dysplasia) Ø44, | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-44 |
| Mueller II Cup (Dysplasia) Ø46, | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-46 |
| Mueller II Cup (Dysplasia) Ø48 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-48 |
| Mueller II Cup (Dysplasia) Ø50 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-50 |
| Mueller II Cup (Dysplasia) Ø52 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-52 |
| Mueller II Cup (Dysplasia) Ø54 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-54 |

| Implant | | HD | Art.-No. |
|---|---|---|---|
| Mueller II Cup (Dysplasia) Ø56 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-56 |
| Mueller II Cup (Dysplasia) Ø58 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-58 |
| Mueller II Cup (Dysplasia) Ø60 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-60 |
| Mueller II Cup (Dysplasia) Ø62 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-62 |
| Mueller II Cup (Dysplasia) Ø64 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-64 |
| Mueller II Cup (Dysplasia) Ø66 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-66 |
| Mueller II Cup (Dysplasia) Ø68 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-68 |
| Mueller II Cup (Dysplasia) Ø70 | cemented, ISO 5834-2 UHMWPE | 28 | 1303-28-70 |
| Mueller II Cup (Dysplasia) Ø44, | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-44 |
| Mueller II Cup (Dysplasia) Ø46, | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-46 |
| Mueller II Cup (Dysplasia) Ø48 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-48 |
| Mueller II Cup (Dysplasia) Ø50 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-50 |
| Mueller II Cup (Dysplasia) Ø52 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-52 |
| Mueller II Cup (Dysplasia) Ø54 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-54 |
| Mueller II Cup (Dysplasia) Ø56 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-56 |
| Mueller II Cup (Dysplasia) Ø58 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-58 |
| Mueller II Cup (Dysplasia) Ø60 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-60 |
| Mueller II Cup (Dysplasia) Ø62 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-62 |
| Mueller II Cup (Dysplasia) Ø64 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-64 |
| Mueller II Cup (Dysplasia) Ø66 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-66 |
| Mueller II Cup (Dysplasia) Ø68 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-68 |
| Mueller II Cup (Dysplasia) Ø70 | cemented, ISO 5834-2 UHMWPE | 32 | 1303-32-70 |

# INSTRUMENTS

## Instrument set acetabulum reamer (Art. no. 367-147)

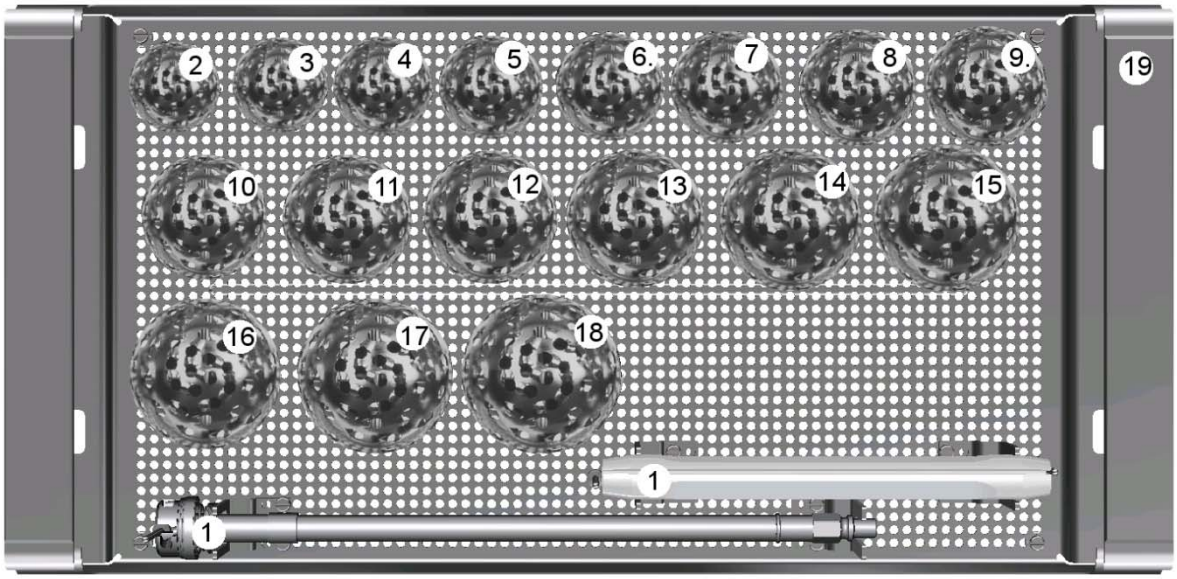



Figure 13: Acetabulum reamer

| No. | Instrument | | Art.-No. |
|---|---|---|---|
| 1 | Prima Straight with AO Connection | | 506-516 |
| 2 | Acetabular Reamer Ø42 mm | stamped | 506-515 |
| 3 | Acetabular Reamer Ø44 mm | stamped | 506-501 |
| 4 | Acetabular Reamer Ø46 mm | stamped | 506-502 |
| 5 | Acetabular Reamer Ø48 mm | stamped | 506-503 |
| 6 | Acetabular Reamer Ø50 mm | stamped | 506-504 |
| 7 | Acetabular Reamer Ø52 mm | stamped | 506-505 |
| 8 | Acetabular Reamer Ø54 mm | stamped | 506-506 |
| 9 | Acetabular Reamer Ø56 mm | stamped | 506-507 |
| 10 | Acetabular Reamer Ø58 mm | stamped | 506-508 |
| 11 | Acetabular Reamer Ø60 mm | stamped | 506-509 |
| 12 | Acetabular Reamer Ø62 mm | stamped | 506-510 |
| 13 | Acetabular Reamer Ø64 mm | stamped | 506-511 |
| 14 | Acetabular Reamer Ø66 mm | stamped | 506-512 |
| 15 | Acetabular Reamer Ø68 mm | stamped | 506-513 |
| 16 | Acetabular Reamer Ø70 mm | stamped | 506-514 |
| 17 | Acetabular Reamer Ø72 mm | stamped | 506-517 |
| 18 | Acetabular Reamer Ø74 mm | stamped | 506-518 |
| 19 | Tray Prima Cut | | 367-150 |
| | Acetabular Reamer Ø40 mm (Optional) | | 367-540 |

## Instrument set equatorial size testers (Art. no. 367-148)

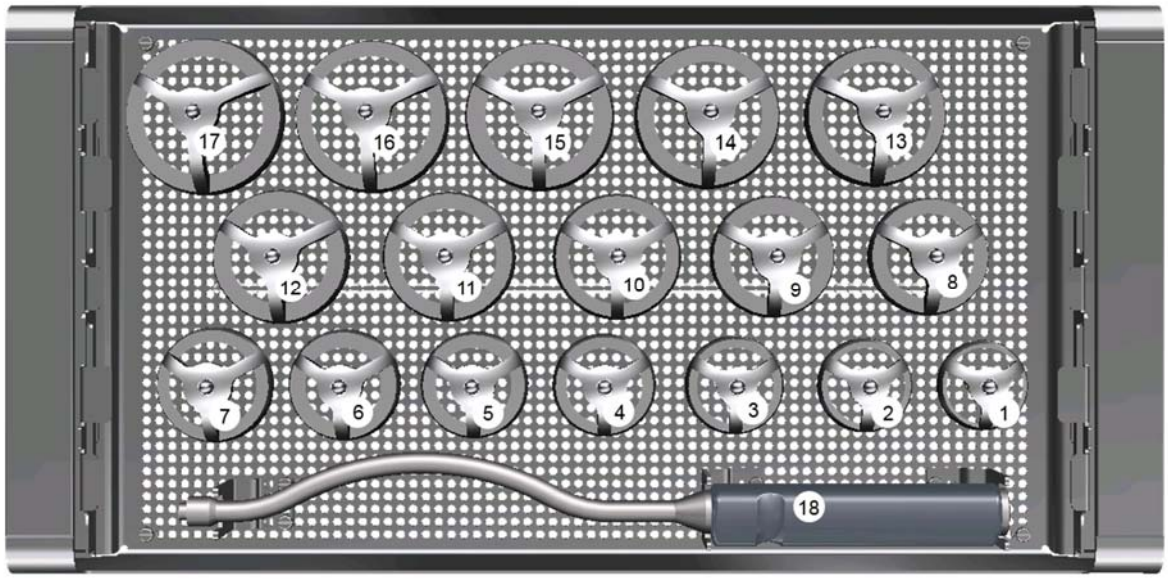



Figure 14: Equatorial size testers instrument set

| No. | Instrument | | Art.-No. |
|---|---|---|---|
| 1 | Equatorial Acetabular Size Tester Sz.42 M8 | | 506-313 |
| 2 | Equatorial Acetabular Size Tester Sz.44 M8 | | 506-314 |
| 3 | Equatorial Acetabular Size Tester Sz.46 M8 | | 506-315 |
| 4 | Equatorial Acetabular Size Tester Sz.48 M8 | | 506-316 |
| 5 | Equatorial Acetabular Size Tester Sz.50 M8 | | 506-317 |
| 6 | Equatorial Acetabular Size Tester Sz.52 M8 | | 506-318 |
| 7 | Equatorial Acetabular Size Tester Sz.54 M8 | | 506-319 |
| 8 | Equatorial Acetabular Size Tester Sz.56 M8 | | 506-320 |
| 9 | Equatorial Acetabular Size Tester Sz.58 M8 | | 506-321 |
| 10 | Equatorial Acetabular Size Tester Sz.60 M8 | | 506-322 |
| 11 | Equatorial Acetabular Size Tester Sz.62 M8 | | 506-323 |
| 12 | Equatorial Acetabular Size Tester Sz.64 M8 | | 506-324 |
| 13 | Equatorial Acetabular Size Tester Sz.66 M8 | | 506-325 |
| 14 | Equatorial Acetabular Size Tester Sz.68 M8 | | 506-326 |
| 15 | Equatorial Acetabular Size Tester Sz.70 M8 | | 506-327 |
| 16 | Equatorial Acetabular Size Tester Sz.72 M8 | | 506-331 |
| 17 | Equatorial Acetabular Size Tester Sz.74 M8 | | 506-332 |
| 18 | Handle bent | with Silicone Handle grey, L=377mm | 600-300 |
| 19 | Tray Equatorial Size Tester | h=75mm, with holder for lid | 367-151 |

## Instrument Set Müller II Cup with Handle bent (Art. no. 367-400)

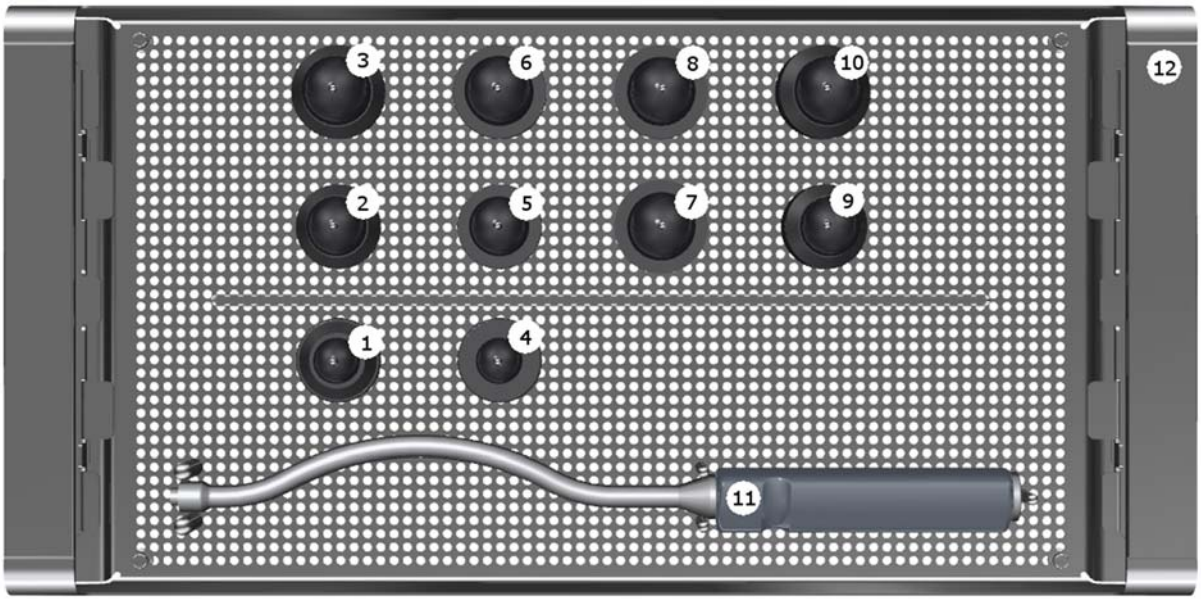



Figure 15: Instrument Set Müller II Cup with Handle bent

| No. | Instrument | Art.-No. |
|---|---|---|
| 1 | PE-Cup Inserter Head Ø 22 mm standard | 506-1239 |
| 2 | PE-Cup Inserter Head Ø 28 mm standard | 506-1031 |
| 3 | PE-Cup Inserter Head Ø 32 mm standard | 506-1079 |
| 4 | PE-Cup Inserter Head Ø 22 mm flat | 506-1254 |
| 5 | PE-Cup Inserter Head Ø 28 mm flat | 506-1255 |
| 6 | PE-Cup Inserter Head Ø 32 mm flat | 506-1256 |
| 7 | PE-Cup Inserter Head Ø 28 mm snap fit | 506-1027 |
| 8 | PE-Cup Inserter Head Ø 32 mm snap fit | 506-1030 |
| 9 | PE-Cup Inserter Head Ø 28 mm dysplasia | 506-1237 |
| 10 | PE-Cup Inserter Head Ø 32 mm dysplasia | 506-1238 |
| 11 | Handle bent with Silicone Handle grey, L=377mm | 600-300 |
| 12 | Tray Müller II Cup with Handle bent | 367-0801 |

## X-ray templates

| Designation | | Art.-No. |
|---|---|---|
| X-Ray Templates Mueller II Cup Standard | HD 22 mm | 367-2002 |
| X-Ray Templates Mueller II Cup Standard | | 367-2003 |
| X-Ray Templates Mueller II Cup Flat Profile | HD 22 mm | 367-2010 |
| X-Ray Templates Mueller II Cup Flat Profile | | 367-2004 |
| X-Ray Templates Mueller II Cup Snap Fit | HD 22 mm | 367-2006 |
| X-Ray Templates Mueller II Cup Snap Fit | | 367-2005 |
| X-Ray Templates Mueller II Cup Dysplasia | | 367-2001 |

## Optional accessories

| Designation | | Art.-No. |
|---|---|---|
| Positioning Guide for Cups | for Ø8mm to Ø24mm | 506-010 |
| Instrument Set Müller II Cup | | 367-402 |

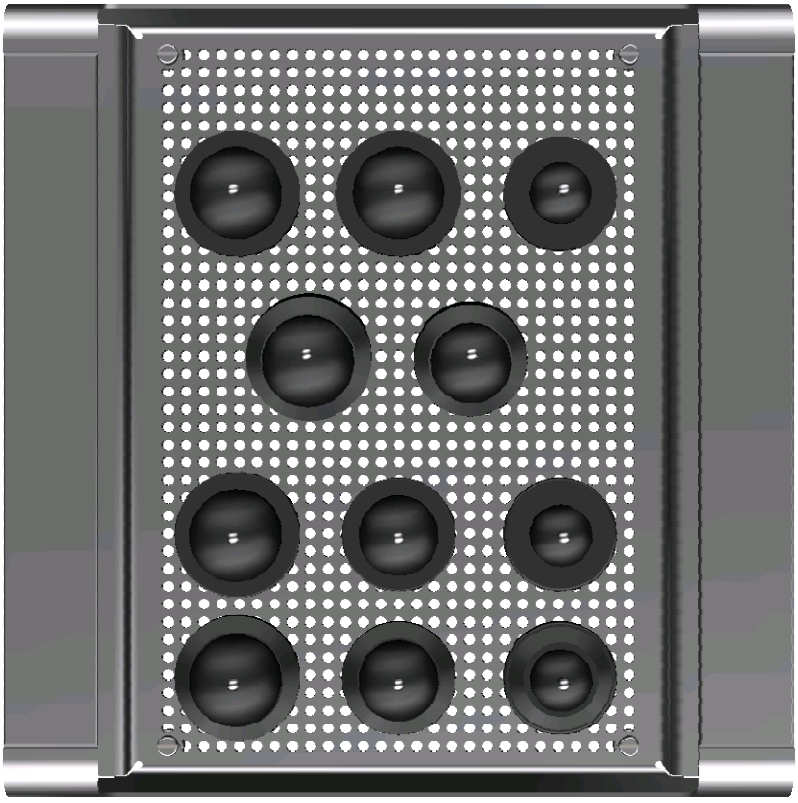


Figure 16: Instrument Set Müller II Cup

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