

OHST
medical technology



Product catalogue

Edition 5



OHST medical technology is the centre of excellence in the area of endoprosthesis **and is specialised in joint implants and instruments.**

CUSTOMER ORIENTATION AS A MATTER OF PRINCIPLE

We stand for medical devices based on the latest medical and technical developments. Extensive investments in high-tech facilities enable us to work with innovative procedures today. High-quality materials guarantee the quality our customers expect from us.

We have applied our comprehensive knowledge in the field of endoprosthetics to develop our own OEM product range.

OHST customers are market leading distributors worldwide, providing implants & instruments to surgeons and hospitals. They rely on market-ready products which ensure an optimal combination of state-of-the-art medical standards with cost-effectiveness and flexibility. All components are supplied in sterile packaging and labelled.

For more than 80 years, quality, cost-effectiveness and reliability have formed the cornerstone of our continued success.

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Hip implants and instruments



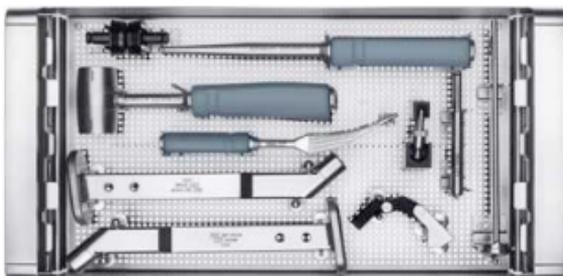


MÜLLER STRAIGHT STEM



PRODUCT DESCRIPTION

- Anching:
cemented
- Material:
CoCrMo (ISO 5832-4)
- Cone:
12/14
- Combinable with:
Metal and ceramic femoral heads
(see page 22)
- Variant:
Standard and Lateral
CCD angle: 135°
- Sizes:
11 sizes



INSTRUMENTS

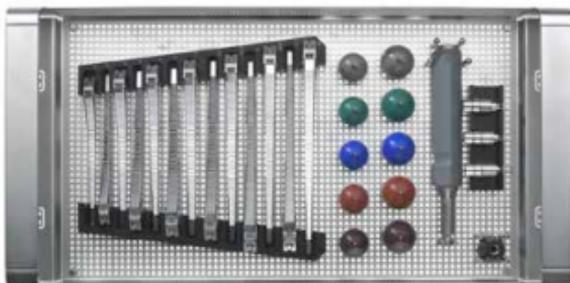
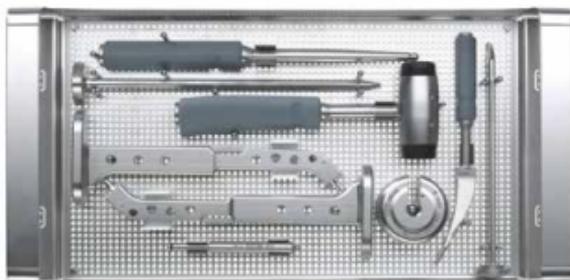
- only a small number of basic instruments required
- enables a smooth switch from the standard to the lateralized version during surgery

SPC HIP STEM



PRODUCT DESCRIPTION

- Anching:
cementless
- Material:
Ti6Al7Nb (ISO 5832-11)
rough surface, blasted
- Cone:
12/14
- Combinable with:
Metal and ceramic femoral heads
(see page 22)
- Variant:
Standard
CCD angle: 125°, 135°, 145°
- Sizes:
13 sizes



INSTRUMENTS

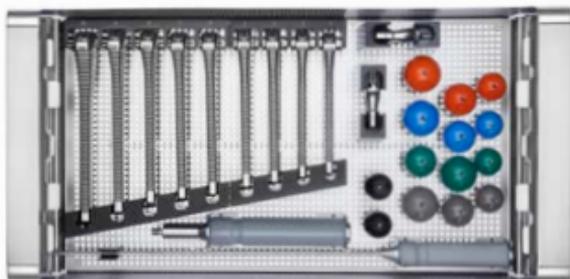
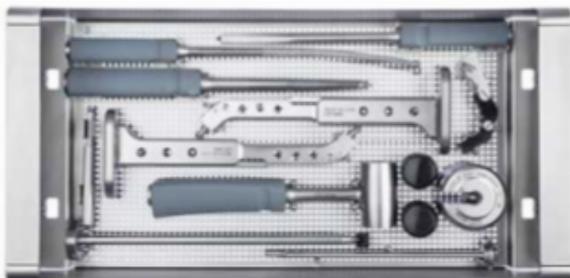
- universal basic instrument set
- the surgeon can implant all SPC variants using the same instrument set and surgical technique

EXPERSUS HIP STEM



PRODUCT DESCRIPTION

- Anchoing:
cemented
(CE approval in process)
cementless
- Material:
cemented:
Implant Steel (5832-9)
cementless:
Ti6Al4V (5832-3) with
TPS and HA coating
- Cone:
12/14
- Combinable with:
Metal and ceramic
femoral heads
(see page 22)
- Variant:
Standard, CCD angle:
125° & 135°
- Sizes:
cemented:
9 sizes (125°)
10 sizes (135°)
cementless:
9 sizes (125° & 135°)



INSTRUMENTS

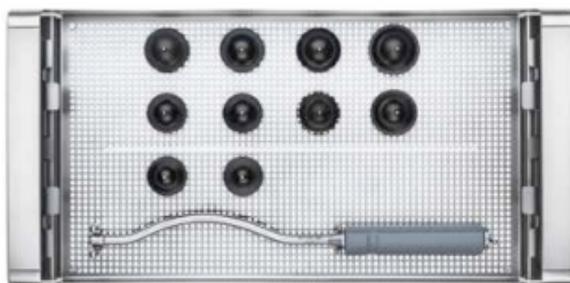
- only a small number of basic instruments required
- same instrument sets for both versions

MÜLLER II CUP



PRODUCT DESCRIPTION

- **Anchoring:**
cemented
 - **Material:**
UHMWPE (ISO 5834-2)
 - **Direct sliding partner:**
Metal and ceramic femoral heads
(see page 22)
 - **Variant:**
Standard
Flat
Dysplasia
Snap
 - **Sizes:**
Available for femoral head sizes \varnothing 22/28/32
- Standard**
in 2 mm increments
 \varnothing 36 – 70 mm
- Flat**
in 2 mm increments
 \varnothing 36 – 70 mm
- Dysplasia**
in 2 mm increments
 \varnothing 42 – 70 mm
- Snap**
in 2 mm increments
 \varnothing 36 – 70 mm



INSTRUMENTS

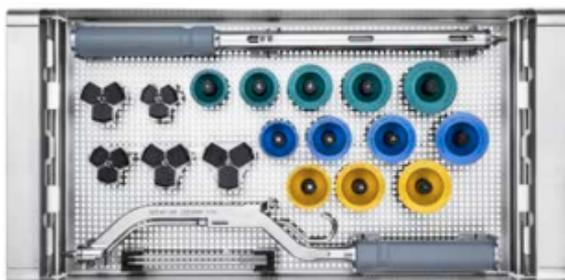
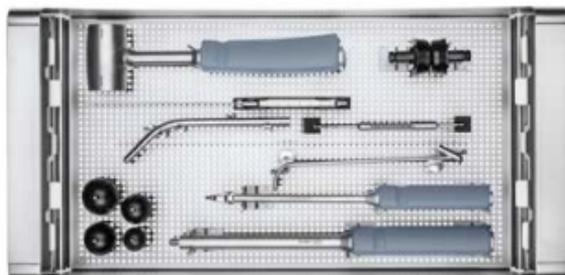
- the basic instrument set for the Müller II Cup contains all insertion head variants and sizes for use with the four different implant variants

PRIMARO CUP



PRODUCT DESCRIPTION

- Anchoing:
cementless
- Material:
Ti6Al4V (ISO 5832-3)
- Variants:
Rough blasted
TPS
TPS + BONIT®
- **PE inlays**
XL-PE 75
- **Ceramic inlays**
ELEC® plus
BIOLOX® delta
- For use in combination
with femoral heads
ø 28/32/36
- Direct sliding partner:
Metal and ceramic femoral
heads (see page 22)
- Variant:
with screw fixation
- Sizes:
13 sizes
in 2 mm increments
ø 44 – 68 mm



INSTRUMENTS

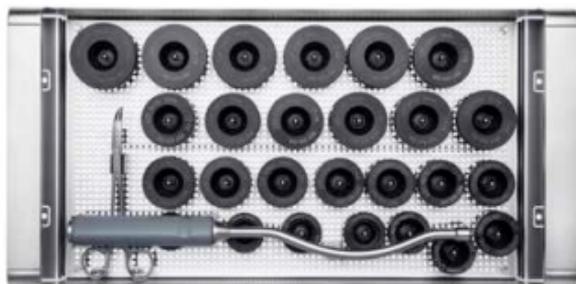
- both instrument sets contain all instruments for insertion of the cup, the inlay and the flat head screw

BIPOLAR HEAD



PRODUCT DESCRIPTION

- **Anchoring:**
within the natural acetabulum
- **Material:**
Implant steel
(ISO 5832-1)
- **Direct sliding partner:**
Metal femoral heads
(see page 22)
- **Variant:**
with pre-assembled locking ring
- **Sizes:**
Implant steel
23 sizes
in 1 mm increments
ø 38 – 60 mm



INSTRUMENTS

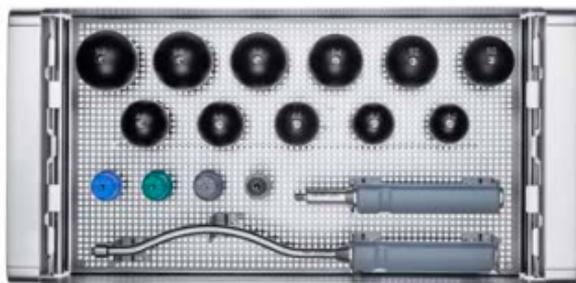
- compact instrument set with trial bipolar heads

UNIPOLAR HEAD



PRODUCT DESCRIPTION

- **Anchoring:**
within the natural acetabulum
- **Material:**
Implant steel
(ISO 5832-9)
- **Variant:**
neck lengths: S, M, L
- **Sizes:**
11 sizes
in 2 mm increments
ø 40 – 60 mm



INSTRUMENTS

- compact instrument set with trial unipolar heads

FEMORAL HEADS



PRODUCT DESCRIPTION

Femoral heads act as the articulation partner between the hip stem and the cup component.

Material	Sizes & Neck length	Diameter
Implant steel (ISO 5832-9)	S-XXL	28/32
CoCrMo (ISO 5832-12)	S-L S-XXL	22 28/32
ELEC [®] plus (ISO 6474-2)	S-L S-XL	28 32/36
BIOLOX [®] delta (ISO 6474-2)	S-L S-XL	28 32/36

CERAMIC INLAYS AND CERA GUIDE



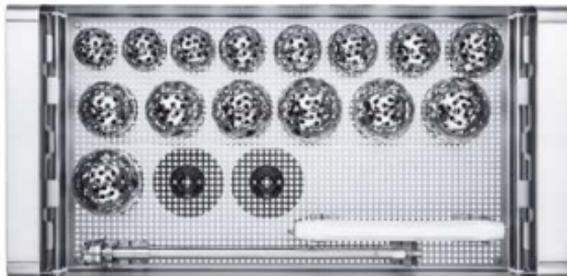
PRODUCT DESCRIPTION

BIOLOX® delta inlays are classed as state of the art for many years.

We developed a special insertion instrument – CERA-Guide – that ensures a safe placement of ceramic inserts for the BIOLOX® delta series XLW 18 and XLW 18 zero. The complete insertion instrument set consists of three components: mounting device, connector and liner handle.



ACETABULAR REAMER



PRODUCT DESCRIPTION

- precisely crafted acetabular reamers create a clean implant bearing to accommodate cemented and cementless hip joints
- sizes: \varnothing 42–74 mm in 1 mm increments
- the nominal diameter of the reamer corresponds to the diameter of the prepared implant bed



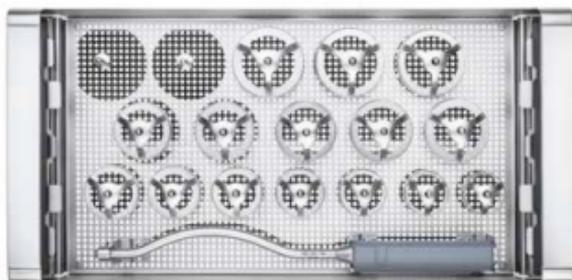
PRIMA CURVE



PRODUCT DESCRIPTION

- the Prima-Curve is a double-curved acetabular reamer shaft for the mounting of acetabular reamers
- allows to prepare the acetabulum through a minimal invasive approach
- simple reprocessing
- handy dismounting (no extra instruments needed)

EQUATORIAL SIZE TESTER



PRODUCT DESCRIPTION

- excellent visibility of the implant bed through the 3-spoke design which allows for precise size testing of the acetabulum
- sizes: \varnothing 42–74 mm in 2 mm increments
- handle is equipped with a thread and is simply screwed on to the size tester



OPENING INSTRUMENTS FOR MEDULLARY CAVITY

femoral rasp



box chisel
small



opening broach
hewed

opening rasp
hewed



cavity chisel

PRODUCT DESCRIPTION

The opening of the medullary cavity is one of the crucial factors for a successful hip-arthroplasty. Thus, it is needed to have the right opening instrumentation for each approach.

RASP HANDLES



PRODUCT DESCRIPTION

- for minimal invasive surgeries a curved version for the right and left hip is available
- different connection geometries are available
- a mechanism locks the rasp handle/adapter automatically when it is attached to the rasp
- an ergonomically designed spring lever disengages the rasp easily
- for machine application, equivalent rasp adapters (straight, curved) are available with an IMT connection
- the choice of high quality materials and the excellent processing quality ensures a long life cycle

CONTRACT MANUFACTURING FOR HIGH PRECISION RASPS



PRODUCT DESCRIPTION

- rasps produced by OHST are characterized by high precision
- all rasps are plasma-polished
- this process results in a smooth surface and thus facilitates cleaning and allows for an esthetic shine
- we can manufacture parts according to your drawings or we can assist in the development of your product
- we are able to grind almost any rasp geometry including parallel, staggered and radiating tooth systems with standard tooth angles of 60° and 70°
- connecting geometries for handles can be conveniently selected as needed

SCREW INSTRUMENTS



drill guide for
screws



screw measuring instrument,
curved



screw holding
forceps



cardan screw driver



hexagon screw driver

PRODUCT DESCRIPTION

Screw instruments are used for the fixation of other instruments during surgery, to mount implant components or as a drill guide for a screw fixation.



FlexiDrill

- flexible drill with an AO-connection
- can be used in hip and knee endoprosthetics as well as traumatology
- is used to carry out bore holes into the bone at an angle of up to 45°



FlexiBit-Shaft and FlexiBit-Drill

- enhancement of the FlexiDrill
- modular flexible drill with AO-connection
- has a quick coupling system that enables an easy tool exchange
- handy cleaning and sterilization
- several sizes FlexiBit-Drills available

REPOSITIONING INSTRUMENTS



PRODUCT DESCRIPTION

- a set of tools for the intraoperative repositioning of hip stems
- the Stem-repositioner is the core element, it features the connection between the hip stem and various repositioning instruments (e.g. rasp handle or sliding hammer)
- available with the Stem-repositioner are: extraction rod and a striking weight as well as different adapters for rasp handles



EXTRACTION INSTRUMENTS



PRODUCT DESCRIPTION

- a set of tools for the extraction of hip stems during a revision surgery
- the core element is the Stem-extractor: it features the connection between the hip stem and various extraction instruments (e.g. rasp handle or sliding hammer)
- available with the Stem-extractor are: extraction rod and a striking weight as well as different adapters for rasp handles





Knee implants and instruments





ZEN KNEE

MOBILE BEARING



PRODUCT DESCRIPTION

- Sizes:
6 sizes
- Anchoring:
cemented
cementless or hybrid



■ Components & Material:

Femur and Tibia

right / left versions

cemented: CoCrMo

cementless: CoCrMo with TPS & BONIT® coating

PE insert

UHMWPE: STD, UC

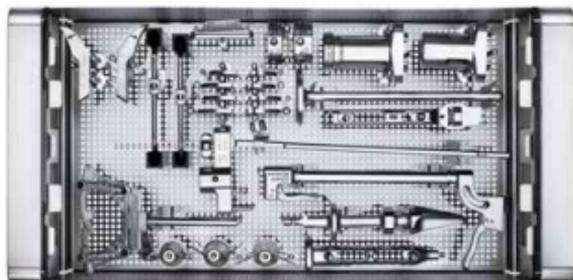
Vitamin-E XL-PE: STD, UC

Patella

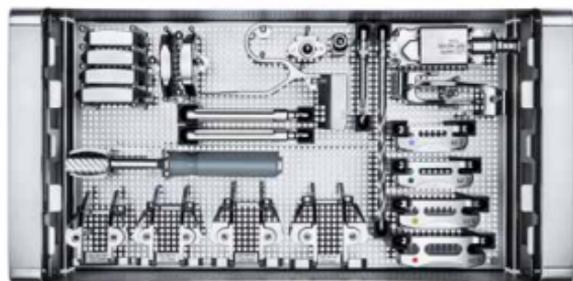
cemented: *mobile*: CoCrMo & UHMWPE,
fix: UHMWPE

cementless: *mobile*: CoCrMo with
TPS & BONIT® coating
& UHMWPE

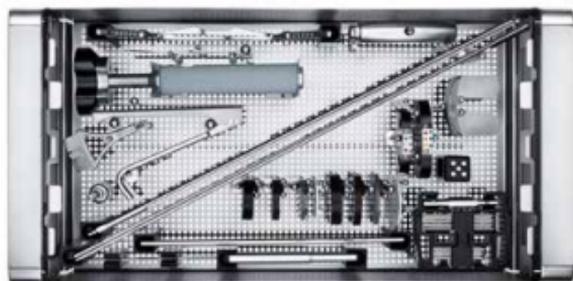
ZEN KNEE MOBILE BEARING INSTRUMENT SETS



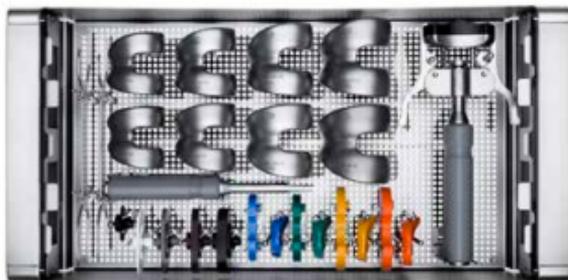
Tray Tibia



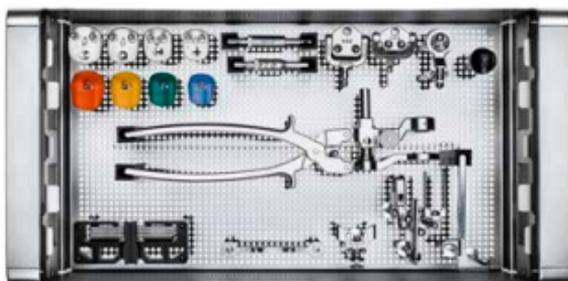
Tray Femur



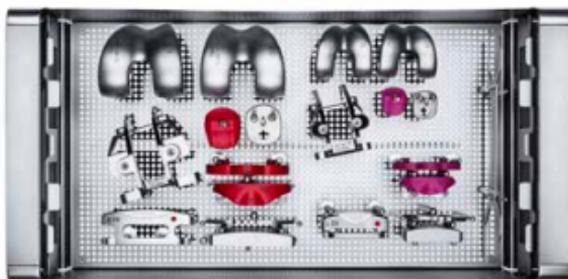
Tray General



Tray Trial
Components



Tray Patella



Tray Size 1 & 6



■ Components & Material:

Femur and Tibia

right / left versions

cemented: CoCrMo

cementless: CoCrMo with TPS & BONIT® coating

PE insert

UHMWPE: STD

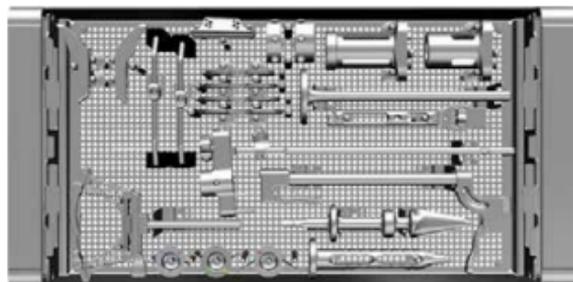
Vitamin-E XL-PE: STD, UC

Patella

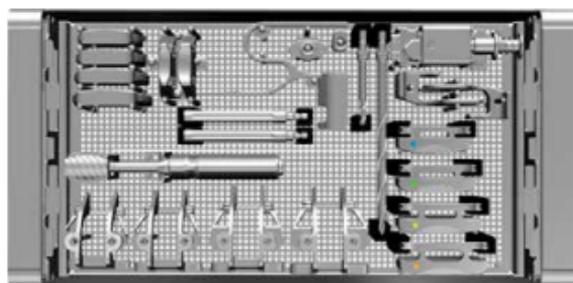
cemented: *mobile*: CoCrMo & UHMWPE,
fix: UHMWPE

cementless: *mobile*: CoCrMo with
TPS & BONIT® coating
& UHMWPE

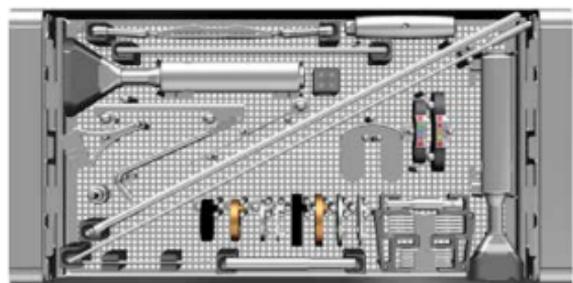
ZEN KNEE FIXED BEARING INSTRUMENT SETS



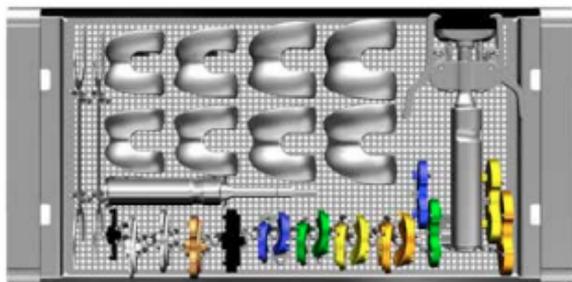
Tray Tibia



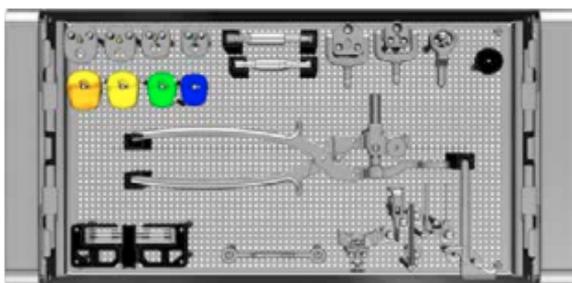
Tray Femur



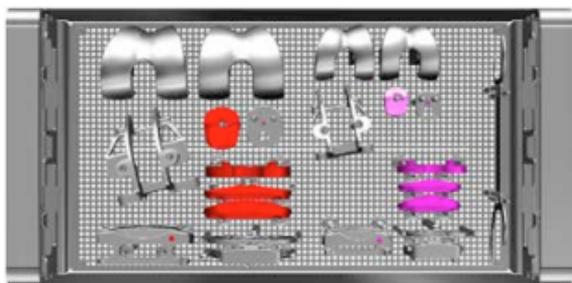
Tray General



Tray Trial
Components



Tray Patella



Tray Size 1 & 6

ZEN TIBIA MODULAR

MOBILE BEARING + FIXED BEARING



INSTRUMENTS



PRODUCT DESCRIPTION

- Sizes:
5 sizes
- Anchoring:
cemented
- Components & Material:
Tibia mobile bearing (mb)
CoCrMo
Tibia fixed bearing (fb)
CoCrMo

Following components are identical for either mb or fb version:

Stem extension (Ti6Al4V)

Centralizer (UHMWPE)

Augment (Ti6Al4V)

The ZEN Knee Tibia Modular components are designed for use in primary surgeries where a secure fixation of the standard tibia implants is no longer ensured due to insufficient bone quality and in revision surgeries.

PIN FIXATION INSTRUMENTS

pin-adapter, \varnothing 3,2 mm, Zimmer-connection



pin-adapter, \varnothing 3,2 mm



pin-extractor



pin drill, \varnothing 3,2 mm



pin, \varnothing 3,2 mm, length 50 mm



pin, \varnothing 3,2 mm, length 70 mm



PRODUCT DESCRIPTION

A secure fixation of the cutting block is one of the essential factors for a successful knee surgery. A good pin improves the treatment and minimizes risks of complications.

Pins are used to fix instruments to the bone. All pins have a self-tapping trocar tip. They are made of corrosion-resistant stainless steel.

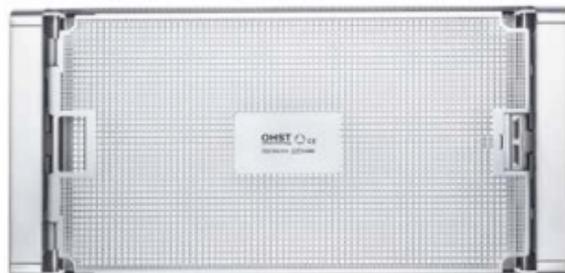
There are different instruments available for insertion of the pins into the bone like the pin-adapter and pin-impactor. Besides that we are offering a pin-extractor to remove pins that have been inserted.



Universal OHST-products



MONOLITE TRAYS



PRODUCT DESCRIPTION

- transport and storage systems for endoprosthetics, traumatology, dental and other medical areas
- the trays are cast in one piece from high quality stainless steel
- high thermal and chemical resistance
- easy cleaning and sterilization
- characterized by its light weight
- can be stacked
- a lid for each tray is available for easier transportation
- classified as medical product class 1

- suitable for a variety of container systems
- a shaded layout at the bottom of the tray, facilitates the arrangement of instruments
- tray can be delivered empty or complete with fixtures

Customized marking of the tray and tray lid with your company logo is possible.



FULL METAL HAMMER



PRODUCT DESCRIPTION

Dimensioning and weight (1300g) of the full metal hammer allow for a very good force transmission out of the wrist in direction of the axis of the implant.

POSITIONING GUIDE



PRODUCT DESCRIPTION

We recommend the Positioning Guide to securely position hip cups. It is for use with the Impactor Handle with a stem diameter from $\varnothing 8$ to $\varnothing 24$ mm.

WOUNDRETRACTOR



PRODUCT DESCRIPTION

OHST has developed retractors for

- anterior approach hip and
- dorsal approach to the lumbar spinal column

Our retractors allow for smaller incisions, thus reduce patient stress and shorten rehabilitation time.

ADVANTAGES OF OHST OEM PRODUCTS:

- OHST is certified according to ISO 13485
- OHST was successfully audited by our notified body according to MDR-criteria in February 2021
- OHST products are CE-marked by MedCert
- very good price-performance ratio

THIS MEANS FOR YOU:

- fast and easy handling of your products
- a high level of product reliability & clinical expertise
- a partner with many years of industry know-how with regards to production processes, materials and products
- a reliable partner that is committed to continuous further development

BEST QUALITY

MADE IN GERMANY



Orthopaedic Devices made in Germany

OHST Medizintechnik AG

Grünauer Fenn 3
14712 Rathenow
Deutschland | Germany

Fon +49 (0) 3385 5420 0
Fax +49 (0) 3385 5420 99
E-Mail info@ohst.de
URL www.ohst.de