PATIENTS DESERVE A BETTER IMPLANT SOLUTION OSSDSIGN®
CRANIOPLASTY ACCESSORIES

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OSSDSIGN® Cranioplasty Accessories are a collection of devices aimed to facilitate an optimal placement and fitting of OSSDSIGN® Cranial PSI. Each available accessory is a custom-made device specifically designed for the patient’s unique anatomy, using patient specific CT data and 3D printing. All devices are manufactured using PA 2200, and are delivered sterile and ready to use. The currently available devices have the following intended use:

Anatomical Model Original (AMO)
Visual and tactile guidance and orientation of the patient’s anatomy.

Anatomical Model Modified (AMM)
Visual and tactile guidance and orientation of the patient’s anatomy after removal of bone to highlight a specific region of interest.

Plastic Drawing Guide (PDG)
Perioperative surgical guide to facilitate accurate placement and fitting of corresponding OSSDSIGN® Cranial PSI.

Cranial Implant Trial (CIT)
Perioperative surgical guide which facilitates accurate visualization, placement and fitting of corresponding OSSDSIGN® Cranial PSI.

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ANATOMICAL MODEL ORIGINAL
The AMO is 3D printed directly from the patient’s specific CT data and is intended as visual and tactile guidance and orientation of the patient’s anatomy. It allows the surgeon to orientate the patient’s current bone anatomy, to evaluate features such as:
- Location of nerve outlets, major blood vessels, bone thickness
- Tumor location
- Location of existing implants

ANATOMICAL MODEL MODIFIED
The modified anatomical models are based on the patient’s CT data, but also includes computerized changes to specific anatomical regions. The device helps the user to orientate the current bone anatomy according to discussed arrangements, including:
- Location of nerve outlets, major blood vessels, bone thickness
- Tumor location
- Location of existing implants
- Placement of corresponding OSSDSIGN Cranial PSI’s fixation arms
- Dividing the cranium in sections for easier visual access

PLASTIC DRAWING GUIDE
The Plastic Drawing Guide is a perioperative tool, designed to fit a specific topography. It is designed based on the patient’s CT data and discussions with the operating surgeon, and is produced with 3D printing technology. The device is often recommended for cases where the desired cranial cavity for a corresponding Cranial PSI is not established. It facilitates an accurate resection, thus creating an optimal defect by which the implant is designed. The Drawing Guide is also available in titanium, allowing for more design options in complex areas.

CRANIAL IMPLANT TRIAL
The Cranial Implant Trial (CIT) represents OSSDSIGN Cranial PSI in terms of shape, depth and slope of the outer perimeter. It is placed into the cranial cavity during surgery to determine if the corresponding Cranial PSI is compatible, without having to break the sterile barrier of the actual implant. The CIT also maintain the topographical curvature of its corresponding Cranial PSI, allowing the surgeon to evaluate the amount of soft tissue needed to close the defect. Additionally, the location of each Cranial PSI fixation arm is marked on the CIT to help determine if further dissection of tissue is needed to accommodate proper fixation of OSSDSIGN Cranial PSI. The device is supplied with every Cranial PSI shipment.