



**IPS** Implants®

Epithesis Base





Oral and maxillofacial surgery is our passion! It is our policy to continue enhancing this field in collaboration with our customers. Every day we work on developing innovative products and services which meet the highest demands on quality, and which contribute to the wellbeing of the patient.

## **IPS** Implants® Epithesis Base

Custom-made framework structure for fixating epitheses

IPS® is ideal for solutions custom-made to the patient by a simple and efficient process – from planning to the functional implant.

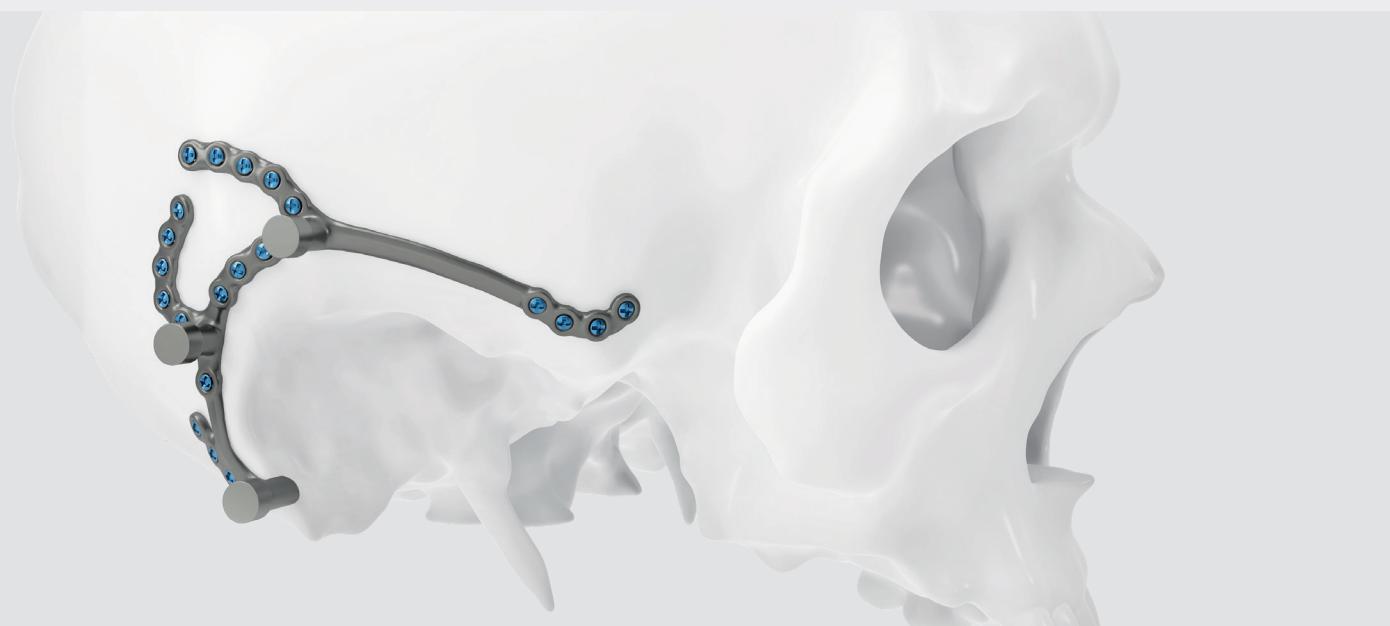
We supply IPS Gate®, a platform that guides surgeons and users reliably and efficiently through the process of inquiring about, planning, and completing custom-made products. The intuitive concept offers the user maximum mobility, flexibility, and functionality. With the “HTTPS” standard, IPS Gate® ensures encrypted data transmission, which is additionally certified by the TÜV Süd seal.

Custom-made implants, planning aids, and anatomical models are made from various materials using state-of-the-art fabrication technologies. Thanks to computer-based planning and functionalized custom-made implants, pre-operative planning can be implemented in the OR with unprecedented precision.

The resulting advantages for patients are reduced complication rates, improved esthetic and functional results, reduced surgical time and faster rehabilitation.

---

## Feature, function and benefit



In everyday interactions with the public, the face is the most important visible feature. A trauma or reconstruction can lead to the loss of facial structures. An epithesis can restore the afflicted patient's original appearance to a large extent.

IPS Implants® Epithesis Base is a framework implant with integrated attachment points for screw-in magnets to which an epithesis can be fixated. Anchoring in the bone, the framework structure, and the position of the magnet attachments can be defined individually during planning.

The implant is manufactured using the laser melting process in the 3D technique. Depending on the case, intraoperative drill and marking guides are available for optimal implant placement.

# IPS Implants® Epithesis Base

## 3D-printed titanium implant

- Alloy: Ti6Al4V
- Screw system: 1.5 mm
- Material thickness: 1.5 mm
- Polished surface around the soft tissue penetration site and uncovered areas
- Backward planning:  
Flexible positioning of the epithesis magnet, irrespective of the bone situation
  - Epithesis restoration
  - Magnet position and angle
  - Framework implant



## Magnetic abutment

- For screw-retention in the framework implant

## Interface magnet/implant

- External hex 4.0 mm implant platform RP (regular platform)
- M2 thread



## Epithesis magnet

- For integration in the epithesis



#### Orbita

Framework structure attached supraorbitally to the orbit roof with three attachment points for an orbital epithesis.



#### Midface/nose

Framework structures attached to the maxilla and zygomatic bone to accommodate a midfacial epithesis.



#### Nose

Bilateral piriform aperture-attached framework structure for accommodating a nasal epithesis with two magnets.



#### Nose

Bilateral piriform aperture-attached framework structures for accommodating a nasal epithesis with four magnets.



### Ear

Framework structure attached to the temporal bone around the auditory canal with three attachment points for an ear epithesis.



### Combination

Restoration of the left maxilla with IPS Implants® Preprosthetic and IPS Implants® Epithesis Base with three attachment points for a nasal epithesis.

## FAQs



### Which data are required for planning?

The following apply: IPS Implants® Scan protocol Cranium | Midface | Midface Orbita | Mandible | Mandible Reconstruction | Distraction 90-249-XX-04.

### Use of possible magnetic abutments:\*

#### ■ Steco (Germany)

Titanmagnetics Insert X-Line, diameter 4.8 mm, 3.5 mm height for the Bränemark Regular Platform (RP) implant (M2-thread, gradient 0.4 mm)  
Article number I.02.01.X350

#### ■ Technovent (United Kingdom)

- Mini Magnabutment: 3.6 mm height, 4.4 mm diameter  
Article number B-MA1-S
- Maxi Magnabutment: 3.6 mm height, 5.1 mm diameter  
Article number B-MA2-S

### Use of possible epithesis magnets:\*

#### ■ Steco (Germany)

X-Line epithesis magnet, diameter 4.8 mm, height 2.65 mm, universal with collar and retention ring  
Article number U.00.02.X265K

\* All information subject to changes by the manufacturer



### Can I purchase accessories and magnets directly from KLS Martin?

No, these articles are not part of the KLS Martin portfolio and can be ordered from the supplier of your choice.

### Which osteosynthesis accessories are required for surgical procedures in addition to IPS Implants® and/or the supplied marking guides?

- Sufficient number of KLS Martin osteosynthesis screws in the planned diameters (1.5 mm) for fixating the implant and marking guides.
- In the case of unknown or reduced bone quality, the use of emergency screws ( $\varnothing$  1.8 mm) is recommended.
- A screwdriver that fits the planned osteosynthesis screws.
- If no Drill-free screws are used: a twist drill suitable for the planned osteosynthesis screws.

## Fields of use

### Fields of use

- Reconstruction of bone structures after destruction/deformation by, for example, tumors, ulcers, cysts, traumas, infections or rejection reactions
- Reconstruction in cases of congenital deformations
- Orthognathic surgeries
- Cerebrocranial traumata with elevated intracranial pressure
- Bone augmentation
- Cosmetic surgery

## The IPS® product range



### IPS CaseDesigner®

The IPS CaseDesigner® makes virtual 3D surgical planning easier and faster than ever before. With this flexible software tool, orthognathic procedures can be efficiently and reliably planned, simulated, and custom-made for treatment in the OR.



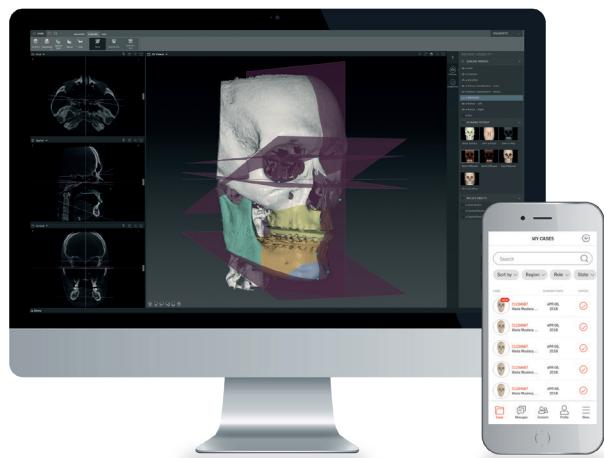
### IPS Gate®

The web-based platform and app guide surgeons and users reliably and efficiently through the process of inquiry, planning, and completing custom-made products. With the “HTTPS” standard, IPS Gate® guarantees encrypted data transmission, which is additionally certified by the TÜV Süd seal.



### IPS Implants®

Custom-made implants, planning aids, and anatomical models are made from various materials using state-of-the-art fabrication technologies. Thanks to computer-based planning and functionalized custom-made implants, preoperative planning can be implemented in the OR with unprecedented precision.



## KLS Martin Group

### KLS Martin Australia Pty Ltd.

Sydney · Australia  
Tel. +61 2 9439 5316  
australia@klsmartin.com

### KLS Martin do Brasil Ltda.

São Paulo · Brazil  
Tel. +55 11 3554 2299  
brazil@klsmartin.com

### KLS Martin Medical (Shanghai) International Trading Co., Ltd

Shanghai · China  
Tel. +86 21 5820 6251  
info@klsmartin.com

### KLS Martin India Pvt Ltd.

Chennai · India  
Tel. +91 44 66 442 300  
india@klsmartin.com

### KLS Martin Italia S.r.l.

Milan · Italy  
Tel. +39 039 605 67 31  
info@klsmartin.com

### KLS Martin Japan K.K.

Tokyo · Japan  
Tel. +81 3 6410 8471  
japan@klsmartin.com

### KLS Martin SE Asia Sdn. Bhd.

Penang · Malaysia  
Tel. +604 261 7060  
malaysia@klsmartin.com

### KLS Martin de México, S.A. de C.V.

Mexico City · Mexico  
Tel. +52 55 7572 0944  
mexico@klsmartin.com

### KLS Martin Nederland B.V.

Huizen · Netherlands  
Tel. +31 35 523 45 38  
infoni@klsmartin.com

### KLS Martin SE & Co. KG

Moscow · Russia  
Tel. +7 499 792 76 19  
russia@klsmartin.com

### KLS Martin Taiwan Ltd.

Taipei · Taiwan  
Tel. +886 2 2325 3169  
taiwan@klsmartin.com

### KLS Martin SE & Co. KG

Dubai · United Arab Emirates  
Tel. +971 4 454 16 55  
middleeast@klsmartin.com

### KLS Martin UK Ltd.

Reading · United Kingdom  
Tel. +44 118 467 1500  
info.uk@klsmartin.com

### KLS Martin LP

Jacksonville · Florida, USA  
Tel. +1 904 641 77 46  
usa@klsmartin.com

### KLS Martin SE Asia Sdn. Bhd.

Hanoi · Vietnam  
Tel. +49 7461 706-0  
vietnam@klsmartin.com

### KLS Martin SE & Co. KG

#### A company of the KLS Martin Group

KLS Martin Platz 1 · 78532 Tuttlingen · Germany  
PO Box 60 · 78501 Tuttlingen · Germany  
Tel. +49 7461 706-0 · Fax +49 7461 706-193  
info@klsmartin.com · www.klsmartin.com