

tempting...?



...in the thick of it...

Smile again...

with dental implants!



...gapless...





SKY Implants – following nature's example

Beautiful teeth give you confidence

Life, however, leaves its mark on your teeth too. Tooth loss is possible at any stage of life, whether as a young person after a traumatic accident or in later years with partial or complete tooth loss through age.

For many patients with conventional dentures, a carefree smile is sadly just a dream. For more than four decades, implants have provided a modern, accepted alternative. These are artificial tooth roots, suitable for all patients whose bones have stopped growing.

Since they are firmly embedded in the jawbone, they represent the solution most closely resembling natural teeth.

In terms of appearance, your individuality and quality of life remain the same, whether eating, laughing or chatting.

We cannot stop the ageing process. However, working together with your dentist, we can find a customised and reliable implant for every individual that will improve your quality of life.

What is a tooth implant?

A tooth implant is a screw used to replace the root of a missing tooth. If the tooth were a tree, the implant would form the root. It is screwed into the jaw and held fast in the jawbone, creating a fixed base on which to attach new, artificial teeth. An implant can replace one or several missing teeth.

A component called an abutment is screwed into the implant and is used to support a crown or bridge. The abutment is like the trunk of a tree. The artificial tooth on the structure is like the crown of the tree – strong and beautiful.

What is the purpose of a dental implant?

Implants counteract normal bone loss. The unique characteristics of the material (osseointegration) mean that it becomes a natural part of the body, stimulating the functions of the jawbone and maintaining it long-term. This is not the case with traditional bridges, which produce no stimulation meaning that the bone degrades.

This is why it is recommended that implants are put in place very quickly after the loss of a tooth. In many cases, it is possible to do both at the same time, i.e. the tooth is pulled out and immediately replaced with the implant.

What is a SKY Implant?

SKY is a trademark of bredent medical. The special structure and surface of SKY Implants enable a very smooth, gentle implantation. Further information on the products and company can be found on page 9.

What is osseointegration?

After an implant has been inserted, the surrounding bone grows round the surface of the implant and bonds with it. This binding process is called 'osseointegration'. If osseointegration does not take place, the implant becomes loose and the implantation fails.

The surface of SKY Implants guarantees strong, fast osseointegration, providing greater stability and security.

Materials

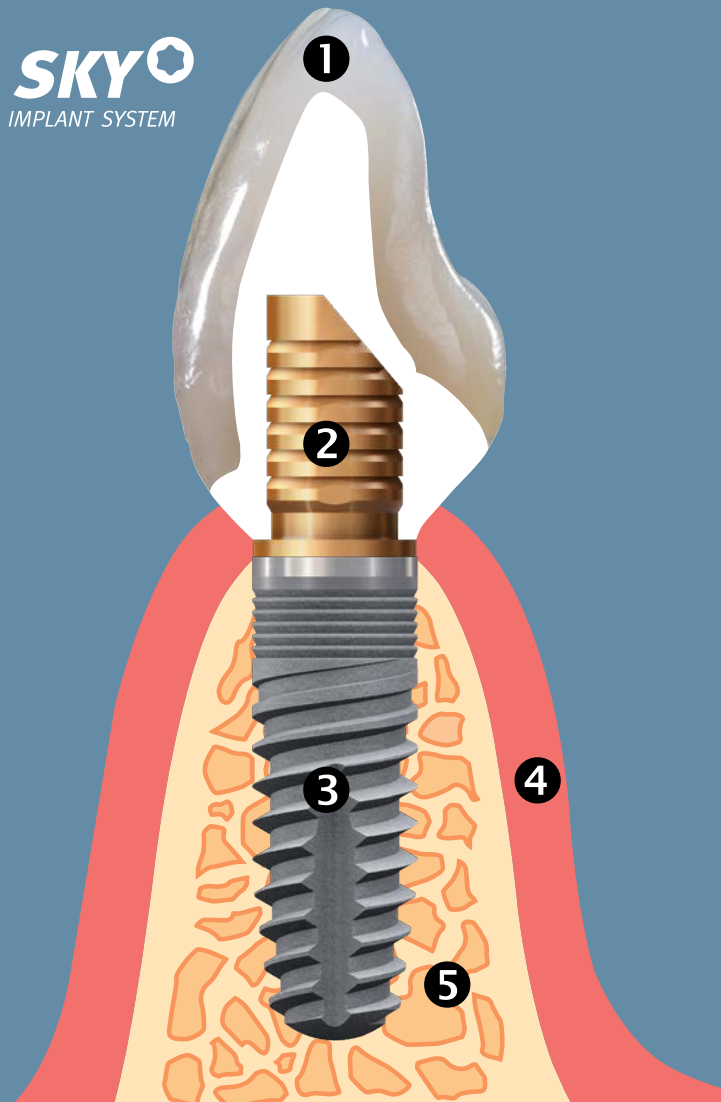
The implant and its structure are normally made of titanium. This material is particularly well tolerated by the body, minimises the risk of potential allergies and bonds quickly with the bone due to its surface characteristics.



Actual size

- 1 Artificial dentures
- 2 Component (abutment) for attaching the artificial tooth
- 3 SKY Implant
- 4 Gums
- 5 Jawbone

SKY
IMPLANT SYSTEM





1st step
preliminary examination



2nd step
fitting the implant



3rd step
temporary restoration



4th step
permanent dentures



How does implantation work?

Implantation is nearly always carried out in the same way. There can be slight variations due to the individual restoration options such as:

- loss of a single tooth
- residual dentition not worth saving
- denture fixation.

Treatment procedure

1st step – preliminary examination

The dentist or surgeon starts with a preliminary radiological examination which is required for all restorations. This enables the identification of potential risks and ensures that the implant is fitted in the right place and can be aesthetically restored.

2nd step – fitting the implant

If everything is OK then the implantation can go ahead. A small incision is made in the gums where the tooth is missing. With the bone now easily accessible, a hole is drilled and the implant screwed into it.

3rd step – temporary restoration

After the implant has been put in place, it is screwed in with a locking screw, covered by the gums and stitched up. This enables the implant to bond with the jawbone, providing stability and strength.

If there is sufficient bone stability, the implant can often be put in place immediately after fitting. To do this, a plastic abutment is screwed directly onto the implant and a temporary restoration affixed to it. The special elasticity of the plastic abutment protects the implant during the healing phase.

4th step – permanent dentures

After approximately two to three months, the temporary crown is removed and the permanent restoration is produced. The gum is re-opened slightly and the abutment put in place. If the implant was restored straight after fitting then the abutment does not need to be changed. Using an impression, the dental technician can now create a permanent aesthetic restoration, which normally looks the same as a natural tooth.

The therapy for closing a single tooth gap

Have you lost one or more teeth in an accident?

Have you had teeth removed as a result of inflammation or illness?

Your choices:

A bridge – putting a strain on healthy teeth

Often when a single tooth is lost, a traditional bridge with no implant is recommended. To do this, two neighbouring, healthy teeth are normally ground down to form the bridge abutments. Please be aware that in these cases, naturally healthy teeth are harmed, weakened and put under additional strain. And that's not all: the jawbone under the bridge can degrade due to a lack of functional loading.

Do nothing – look out for tooth misalignment

Doing nothing is cheaper, but is no solution. The neighbouring teeth lose their support because of the gap and slip out of position. At the same time, the adjacent tooth in the other jawbone grows as it no longer meets any resistance when chewing. The overall balance of the forces within the mouth is lost, resulting in misalignments.

Tooth implants – Aesthetics and functionality

Tooth implants are the best way to manage individual tooth loss as they replace the whole tooth. Functional loading of the bone is maintained long-term, as are the gums.

Nowadays, individual tooth implants can often be fitted with a crown straight away; as soon as the operation is complete, you will hardly see or feel any difference from a natural tooth.

A permanent replacement almost always guarantees an extremely natural, aesthetically pleasing appearance.

If several teeth are missing, the gap can be closed using a customised bridge, depending on the size of the gap and the specific anatomical conditions. This lowers the cost of the overall treatment.

Speech, confidence when chewing and, last but not least, appearance are restored by fitting an implant in the gap.

...gapless...



A short story

Emilia Roca: „It was a bike accident“

I look after myself, my health and my appearance. This includes having beautiful teeth, which I look after by brushing, flossing and making regular visits to the dental hygienist. I was therefore devastated when the dentist told me after my accident that he would have to remove the root and leave a space – mind the gap? Whether you lose one or several teeth, if you have a gap your smile just doesn't look as nice.

That was out of the question for me. So I was delighted when my dentist suggested carefully removing the root, replacing it with an implant and fitting a temporary crown straight away. As the treatment costs of doing this straight away were actually lower than the usual procedure, I agreed to the treatment immediately.

The dentist was able to carry out the treatment as planned, and I left the practice less than two hours later with a happy smile. The gap was closed and you almost couldn't see the temporary crown.



tempting...?



A short story

Richard Watts: „I thought I was too young for dentures“

In the past, the gaps between my teeth were originally closed with bridges. The teeth being used as bridge abutments gradually degraded through excess load and decay under the bridge, so that eventually I could only just about eat with a clasp-retained denture.

I was really pleased when my dentist suggested immediate treatment for my tooth loss. With this proven treatment, only a few implants need to be put into the gaps in the bone and a temporary bridge can even be fitted on the same day. He also explained that no surgical intervention is needed to rebuild the bone, as the angle at which the implants are put in makes optimum use of the available bone.

The low number of implants and the lack of need for any bone surgery meant that the whole treatment was cheap enough for me to afford it. Right after the treatment, I was able to smile freely and eat soft food, as everything had gone to plan.



I'm taking some time now to save up the money to have the work permanently completed. I've also experienced hardly any restrictions since having the temporary treatment. This was carried out after only eight months.

The therapy for potentially edentulous jaws

You have aggressive periodontitis and need to have your teeth removed?

Do you feel too young for full dentures?

Are you scared of major surgical intervention and the associated costs?

Your choices:

Full dentures with adhesive

Full dentures are still the standard solution for treating patients with tooth loss. However, even well-positioned dentures start to wobble after a few months and then no longer fit well. This is due to bone loss and changes in the soft tissue caused by the pressure of the dentures on the bones. They need regular relining and adhesives.

Immediately fixed, implant-supported temporary bridges

Using an immediate restoration such as the SKY fast & fixed therapy from bredent medical, a jaw suffering tooth loss can be restored straight away. Any residual teeth which are not worth saving are extracted and all inflamed tissue is removed. A few implants are then fitted. In order to make use of the existing bone, it is often necessary to fit posterior implants at an angle. This removes the need for surgical intervention to reconstruct the bone. Fitting a temporary bridge immediately helps the implants to support each other to avoid overloading during the healing phase. This means that many patients leave the practice after only a few hours with a fixed, implant-supported, temporary bridge.

In recent years, this procedure has proven effective and more than 20,000 patients have been successfully treated.

The therapy for denture fixation

Are you unable to eat meat and fresh vegetables with your dentures?

Do your dentures wobble constantly – even after relining?

Are you worried that your dentures will fall out in public?

Your choices:

Full dentures with adhesive

Many patients with full dentures subconsciously adapt what they eat based on the condition of their teeth and gums. People with problems chewing often only eat soft food and avoid meat, fresh salad and vegetables. This can have a significant adverse effect on their health, sometimes lead to diabetes and other severe illnesses.

Poorly positioned dentures make you feel insecure and lead some to become isolated: many elderly people don't feel confident enough to take part in social activities for fear that poorly positioned dentures will lead to embarrassment in public.

Implants for denture fixation

Using only a few implants and the required retaining elements, dentures can be fixed securely and permanently. This treatment can often be carried out without major surgical intervention and with minimal discomfort. In many cases, even the existing dentures can be used. This keeps costs manageable.

Fixing dentures with implants enables more efficient chewing than with a normal restoration, a clear bonus when it comes to confidence and joie de vivre. In any case, a palatal plate is no longer required and the ability to taste and sense heat remains unaffected. This significantly improves health and quality of life, even in old age.

...in the thick of it...



A short story

Ljudmila Blinow: „My dentures wouldn't stay in place any more“

Initially, my full dentures held well and I could eat fairly well. After a while I noticed that the dentures were starting to wobble and were becoming looser. I no longer wanted to socialise as I was always worried that my dentures would fall out and that my friends or acquaintances would laugh at me. At first, I had the dentures relined a few times but even that only lasted a few weeks each time.

My dentist explained the various options available for fixing dentures with implants and a kind of push-button system. As my jawbone was very narrow and my general health was not good enough for any major operations, we decided on four miniSKY Implants with a spherical head to fix the dentures in my lower jaw. The implants could be fitted without cutting into my gums.

And actually, the operation was quick and there were no complications. The implants were fitted and the current dentures were temporarily fixed using silicone. I noticed that the dentures held better and I felt much better when eating, talking and laughing.

Three months later, the silicone was removed and O-rings fitted which fixed the dentures even better. When I have saved up some money, I will have the dentures in my upper jaw fixed with implants.





Aftercare and subsequent maintenance

In the first few days following implantation, you need to follow your dentist's instructions closely and not eat any solid food. Once the stitches have been removed, you can eat more solid food again. A normal diet can be resumed after approximately eight weeks and it is often easier to eat than before the treatment – almost as good as with natural teeth.

Slight swelling means that cleaning immediately after the operation can be difficult and painful, but it is essential. Cleaning will become easier as soon as the swelling goes down.

In principle, dental implants are cleaned in exactly the same way as natural teeth. In addition to using dental floss, it can help to use special interdental brushes to clean the spaces between your teeth. The dentist can put together an individual care programme that is tailored to your needs. It is recommended that you have a check-up at least once a year. In the case of more extensive restorations, at least twice a year is recommended so that the places that you cannot reach can be cleaned. This prevents inflammation that could compromise the implants.

With good care, all SKY Implants can last a lifetime.

SKY Implants from bredent medical

bredent medical GmbH & Co. KG

Professionals in the development and manufacture of implants

bredent GmbH & Co. KG

Specialists in functional, aesthetic, natural-looking dentures

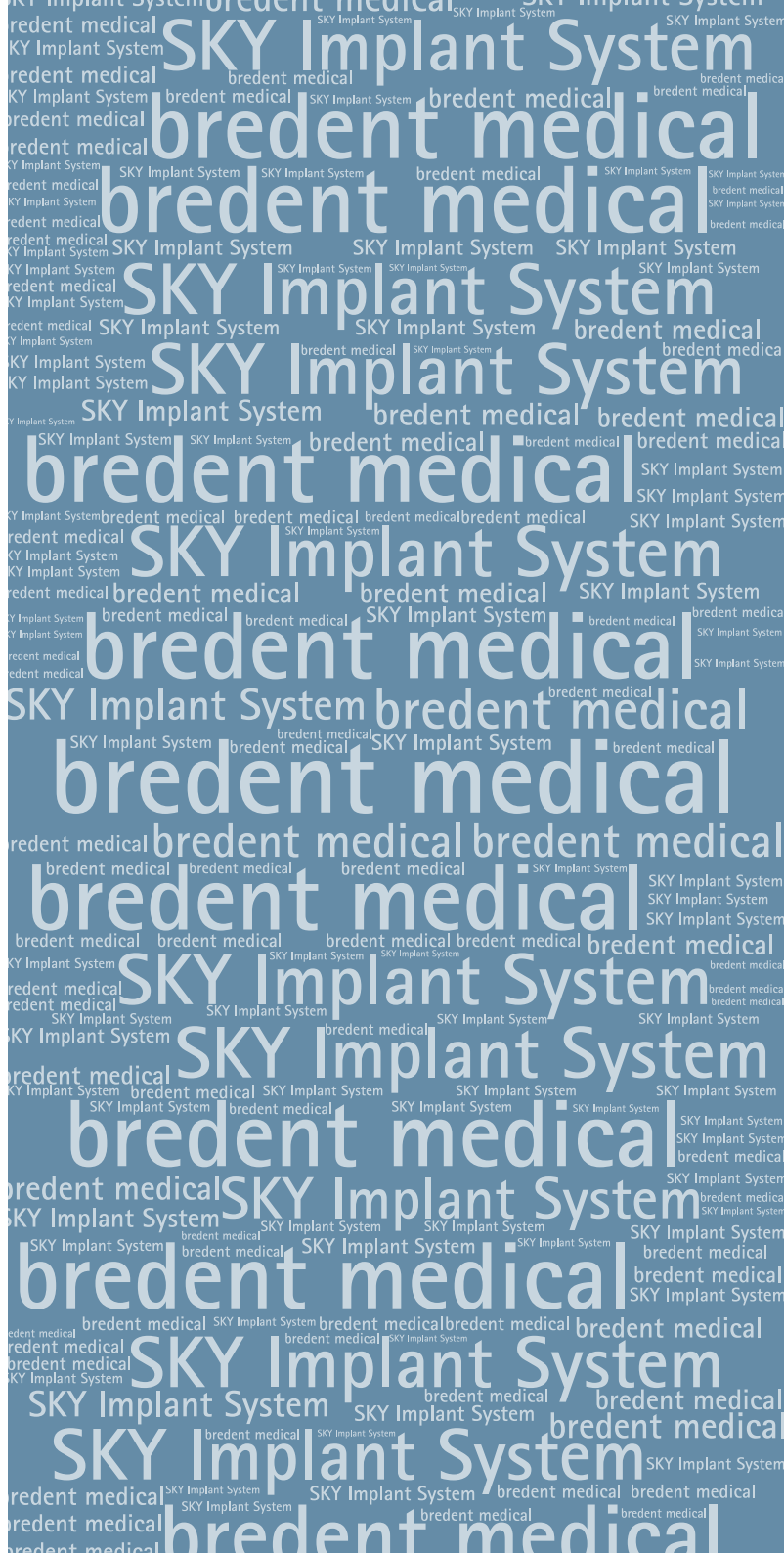
together they make up the

bredent group

the only company in the world that has successfully mastered the challenges of both dental medicine and dental technology.

Advantages

- Certified medical devices
- Compatible systems and treatments
- Everything you need from one source
- ‚Made in Germany‘ quality
- Designs using the latest scientific and technological findings
- Over 40 years' experience
- The market leader in immediate restoration





Questions and answers

Suitability

Dental implants are suitable for people who are in good health or have general conditions that are under control.

Allergic reactions

Dental implants are made from technically pure titanium. A titanium allergy is rare and only a few cases have ever been reported.

Risks and complications

As with all procedures, there is a certain surgical risk when fitting an implant. The probability of a risk occurring depends on a range of factors as well as the area that is being treated. In most cases, minor complaints are only short-term and can be well controlled. These may include bruising, bleeding, swelling and pain. There are very few major risks with implant operations and although they could theoretically occur, they are exceptionally rare.

Functionality

Crowns on dental implants feel very natural and, in most cases, almost like normal teeth. Normally you can't even feel that you have a dental implant. Dental implants remain fixed in the bone, functioning normally and enabling you to chew naturally. Natural teeth, however, are surrounded by periodontal tissues, which allow us to sense pressure when biting and chewing. Implants are not surrounded by periodontal tissues, so their sensitivity to pressure is different from natural teeth.

Contraindications

There are only a few situations where implants are not suitable. The use of dental implants may, however, not be possible if you take certain medication, or if there are certain medical grounds for exclusion. It is important to have an advance consultation with the dentist treating you.

Longevity

Implants have a high average longevity (durability) and there are reports that demonstrated a functional capability over a period of more than 35 years. The latest studies suggest that 90 per cent of implants fitted ten years ago are still functioning today. The long-term success of implants depends largely on how well they are cleaned and looked after.

Temporary restoration

A temporary crown or bridge is sometimes fitted onto the implant(s) for the duration of the healing period. Alternatively, it is possible to fit a removable denture as a temporary solution.

Pain

An effective local anaesthetic is administered before the operation so that no pain can be felt during the implantation. Any mild discomfort after the operation can be managed very well with normal painkillers.

Immediate loading

Immediate loading is the term that is used when a temporary crown is fitted onto the dental implant on the day of the implantation.

Immediate implantation

An immediate implantation is a surgical procedure where the tooth is removed and the dental implant fitted during the same appointment.

Teenagers

Dental implants are only advisable when facial growth is complete. If implants are fitted too early by a dentist, this can have adverse cosmetic effects after facial growth is complete. Your dentist can find the most effective temporary solution until it is the right time to go ahead with an implantation.



Surgery stamp

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medical

bredent medical GmbH & Co. KG
Weissenhorner Str. 2 | 89250 Senden | Germany
T: (+49) 0 73 09 / 8 72-4 40
F: (+49) 0 73 09 / 8 72-4 44
www.bredent-medical.com
@: info-medical@bredent.com

