

BIOTECH DENTAL ATLASURGERY



BROCHURE



BIOTECH DENTAL





BIOTECH DENTAL GROUP, 2.0 DENTAL OFFICE PARTNER

Since its creation in 1987, Biotech Dental is committed to developing a strong relationship of trust with dentists and dental technicians.

Together, we design and develop ever more tailored product lines to the challenges of the future. Our position is located at the crossroads of their expectations, innovation and technology. Allow practitioners to offer the best products at the best prices for their patients: that is the first objective of Biotech Dental.

With more than a million sold dental implants, we have helped to improve the lives of thousands of patients worldwide through all dentists who have trusted us. With our expertise and our know-how, we have chosen to be pioneers of this development through innovative technologies.

In recent years, we have integrated new skills, invested over 10 % of our Business research and development to be able to develop and propose solutions on the cutting edge innovation.

Today we are a key partner for practitioners of dentistry. We offer our customers a wide range of products and services around dental care, to enable them to meet the different needs of their patients.

Innovation and Technology for practitioners to make affordable excellence to patients: this is Ethical currency of BIOTECH DENTAL.

As many products and services serving the dental office 2.0.

Philippe VERAN

President

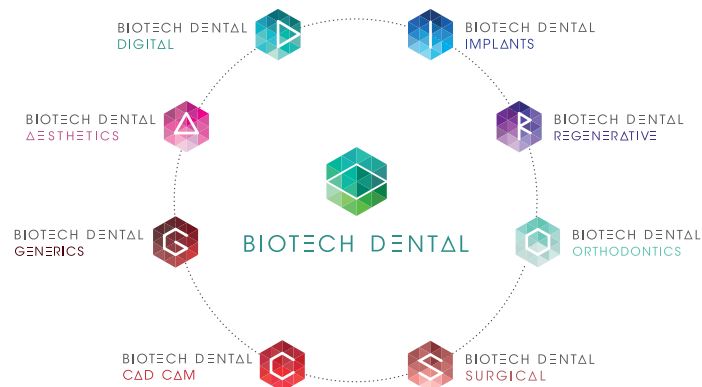




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➤ **Guided surgery kit**



➤ **Deliv
neces**



➤ **Makes the surgical act easier**

➤ **Exclusively with the Kontakt® implant**

**Equipped with all the instruments
necessary for the implant placement**



PRESENTATION

Guided surgery allows treatment time to be optimised, whilst maintaining the bone volumes and controlling aesthetics.

Thanks to this system, the operation is planned in advance and the implants are inserted with extreme accuracy.

But this technique also simplifies your contact with the laboratory and your patients (part tests and live demonstrations).

It is to offer you these advantages that Biotech Dental has created AtlaSurgery in collaboration with experienced surgeons.

SCOPE OF APPLICATION

The AtlaSurgery guided surgery system has been designed to facilitate the operation, from planning to the insertion of the implant(s).

The AtlaSurgery system is exclusively intended to be used to insert the Kontakt® implant **(other than the Ø 5.4 mm)**.



DESCRIPTION

➤ 1. STEP ONE

Once the diagnosis has been established and accepted, the patient undergoes a scan and the results shall be used in the SimPlant® software.

The treatment plan shall then be scheduled and the elements transmitted to Materialise Dental which shall then create the surgical guide and the appropriate protocol.

You will then have all the keys you need to carry out your operation under the best conditions!

➤ 2. SIMPLANT® SOFTWARE

This software, provided by Materialise Dental, allows a tailor-made operation to be planned from a scan of your patient.

Training is required for this software to be used to its full potential.



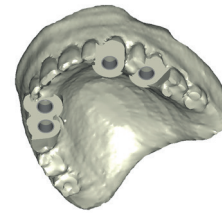
3. SURGICAL GUIDE

Once the operation has been planned, the elements shall be sent to Materialise Dental which shall produce the surgical guide specific to your treatment plan and send it to you directly.

You may request guides for bone, mucous or dental supports.



Notch systematically placed in the vestibular by Materialise Dental on production of the guide.



4. MASTERTUBES

The Mastertubes are metal guides sunken in the resin of the surgical guide.

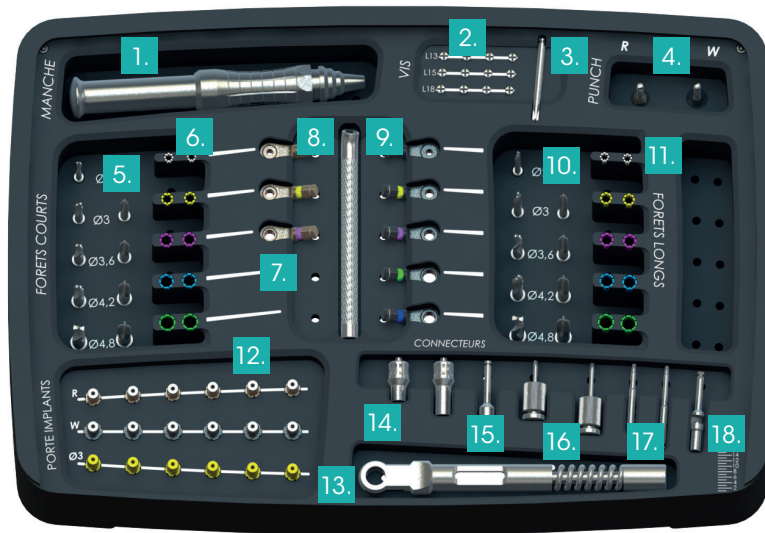
Two diameters of Mastertubes are available, subject to the diameter of the implants:

Ø (mm)	Implants	Instruments
3	K30xx	Regular Ø 4.7 mm
3.6	K36xx	
4.2	K42xx	Wide Ø 5.7 mm
4.8	K48xx	

Biotech Dental shall give these elements to Materialise Dental for integration into the surgical guides.

5. THE KIT

The AtlaSurgery guided surgery kit contains all the equipment needed to insert a Kontakt® implant (other than for \varnothing 5.4 mm).



1. Dental tip screwdriver handle
2. Guide-fixing screws
3. Screwdriver axis
4. Punch
5. Short reamers and drills
6. Stops for short drills
7. Regular spoons
8. Spoon fixation handle
9. Wide spoons
10. Long reamers and drills
11. Stops for long drills
12. Implant holders
13. Surgical dynamometric ratchet
14. Manual screwing connectors
15. Contra-angle screwing connector
16. Manual screwdriver
17. Angle screwdriver
18. Drill extension

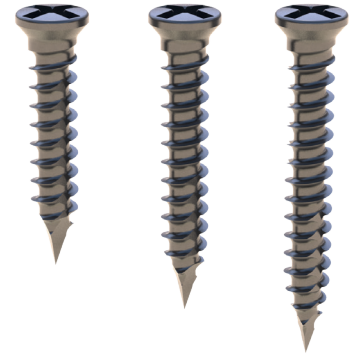
6. GUIDE-FIXING SCREWS

The screw of 2 mm diameter (ref. PV20xx) for fixing the surgical guide is available in 3 different lengths: 13 mm, 15 mm and 18 mm.

The screwdriver axis (ref. PA2), which is 30 mm long, may be used during manual screwing with the screwdriver handle (ref. PMT) or mounted on the contra-angle.



Lg.13 Lg.15 Lg.18



It is recommended that four screws be used to fix the guide.

7. PUNCH (Flapless Technique)

In the case in which the guide is used with mucous supports, the use of "PUNCH" gum cutters is indispensable.



Regular (\varnothing inside 4.10 mm) for \varnothing 3 and 3.6 mm implant.



Wide (\varnothing inside 5.10 mm) for \varnothing 4.2 and 4.8 mm implant.

8. SPOON FIXATION HANDLE

The spoon fixation handle has two ends, a straight one and one angled at 30°.



The spoon inserts into the handle.

They are kept in place by a spring steel ring. They are indexed relative to the handle.

The 6-sided connector guarantees maximum flexibility of orientation.



9. SPOONS

The spoons act as an axial guide for passing the instruments into the surgical guide. These are easy and quick to identify thanks to the coloured ring.



The spoons are identified by the implant diameters:



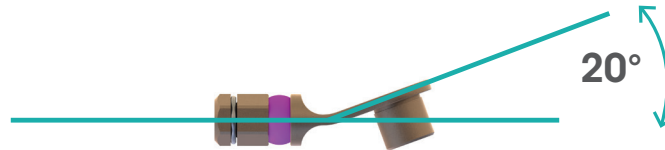
Regular spoons for implants of
Ø 3.0 mm and 3.6 mm



Wide spoons for implants of
Ø 4.2 mm and 4.8 mm

9. SPOONS

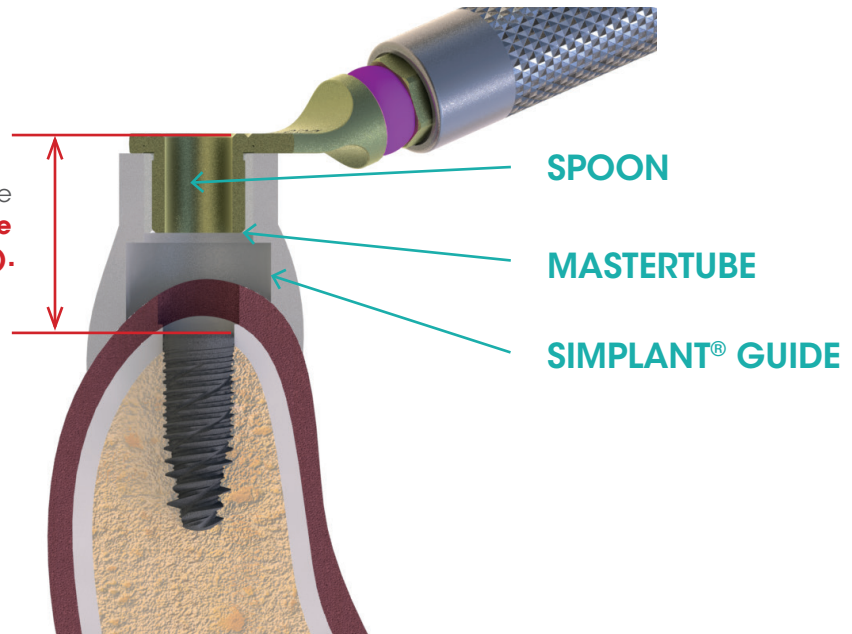
Their 20° angle makes them easy to handle during the operation.



The spoon is a removable instrument. It acts as an axial guide for passing the instruments into the surgical kit.

The Mastertube, which is directly integrated in the guide during production, acts as an axial guide whilst the implant compartment is being drilled.

Total height of the guide and the spoon is 10 mm (**9mm for the guide and 1 mm for the spoon**).

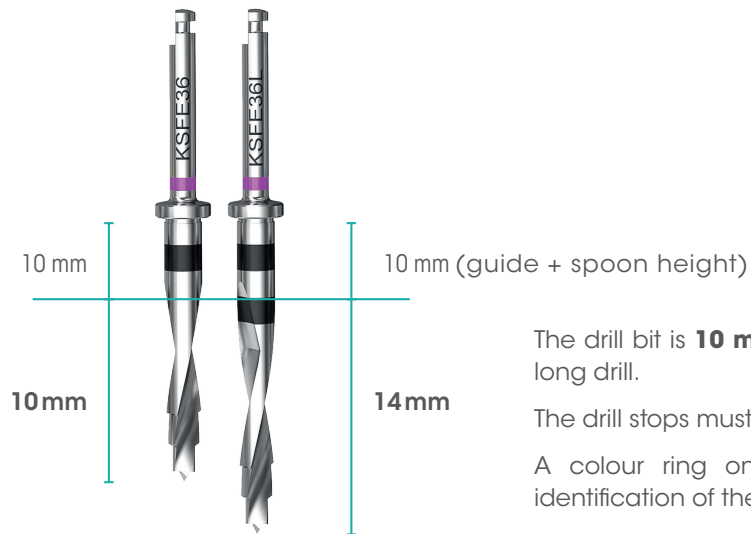


10. STEP DRILLS

Range of drills, pilots and step drills, available in short and long versions.



References	Implants Diameters (mm)
KSFE20	2
KSFE20L	
KSFE30	3
KSFE30L	
KSFE36	3.6
KSFE36L	
KSFE42	4.2
KSFE42L	
KSFE48	4.8
KSFE48L	



The drill bit is **10 mm** for the short drill and **14 mm** for the long drill.

The drill stops must be added to the shoulder of the drill.

A colour ring on the tail of the drill enables quick identification of the diameters.

11. REAMERS

Range of reamers for finishing the apical part of the compartment in case of dense bone, available in short and long versions.



Used in the event of a dense D1, D2 bone, only.

References	Implants Diameters (mm)
KSF30	3
KSF30L	
KSF36	3.6
KSF36L	
KSF42	4.2
KSF42L	
KSF48	4.8
KSF48L	

12. DRILL STOPS



Ø 2 mm



Ø 3 mm



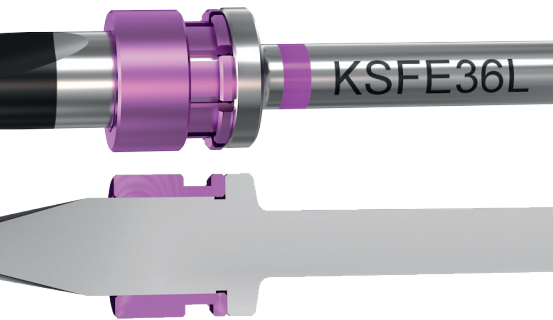
Ø 3,6 mm



Ø 4,2 mm



Ø 4,8 mm








The drill stops are clipped onto the body of the drill.

They are available in two heights (2 and 4mm) and available for each drill diameter from Ø 2 mm.






They use the same colour code as the implants.

These drill stops enable the drilling depth to be modified, depending on the length of the implants to be inserted.

Drill stops using in the case of a juxtacrestal implant positioning.

Implants Lengths (mm)	Drill Only	Drill + Drill Stop height 2 mm (KSBxx-2)	Drill + Drill Stop height 4 mm (KSBxx-4)
			
6			KSFExx 
8		KSFExx 	
10	KSFExx 		KSFExxL 
12		KSFExxL 	
14	KSFExxL 		

Drill stops using in the case of a subcrestal implant positioning **2 mm** recommended).

Implants Lengths (mm)	Drill Only	Drill + Drill Stop height 2 mm (KSBxx-2)
		
6		KSFExx 
8	KSFExx 	
10		KSFExxL 
12	KSFExxL 	

Same use of the drill stop for the reamers (KSFxx).

➤ 13. IMPLANT HOLDER

The implant holder is screwed into the implant in order to ensure it is positioned perfectly.

The implant holder is guided into the Mastertube.
There are three versions available:

References	Porte-implant	Diameters implants (mm)
KSMPI30	Ø 3	3
KSMPIREG	REGULAR	3.6
KSMPIWID	WIDE	4.2 and 4.8



The axial stop is achieved using a shoulder which abuts the Mastertube.
This shoulder comprises 6 machined and laser marked notches which correspond to the indexing of the implant.

The implant-screwing connector comes to index itself on the implant holder.

Notches corresponding to the implant indexing.



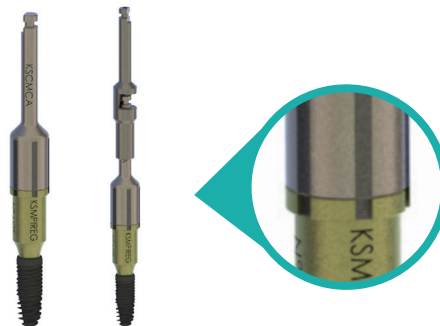
14. IMPLANT-SCREWING CONNECTOR

The implant-screwing connector comes to index itself on the implant holder. It is tightened using the angle piece or manual connector. Whatever the model, laser marking, indicating the indexing is extended to the connectors for greater legibility. The implant holder is kept in place by friction with the connector.

CONTRA-ANGLE INSERTION

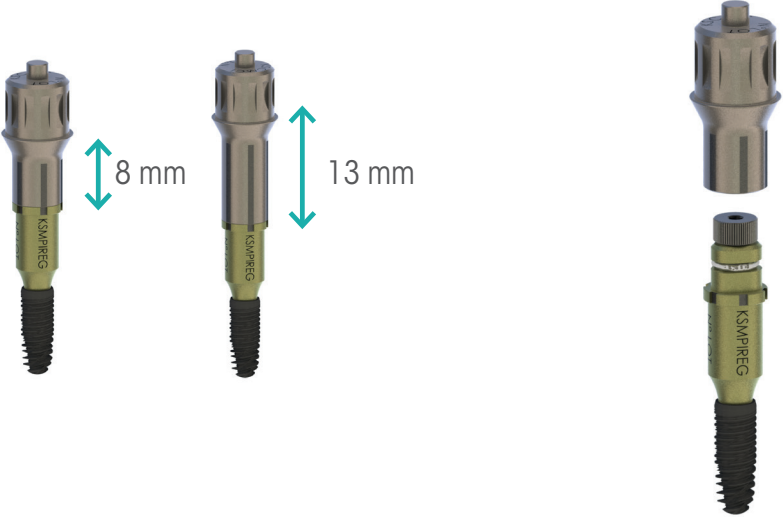
Connector for contra-angle insertion of the implant.

The contra-angle connector may be extended using the drill extender (ref.:1028).



MANUAL INSERTION

Manual connector in short and long versions





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Manufactured by: Biotech Dental. Biotech Dental. A French company under the French law with a capital of 24 866 417 €
Commercial register Salon de Provence: 795 001 304 - SIRET: 795 001 304 00018 - VAT number: FR 31 79 500 13 04.
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Imprimerie VALLIERE - 163, Avenue du Luxembourg - ZAC des Molières - 13140 Miramas - France.