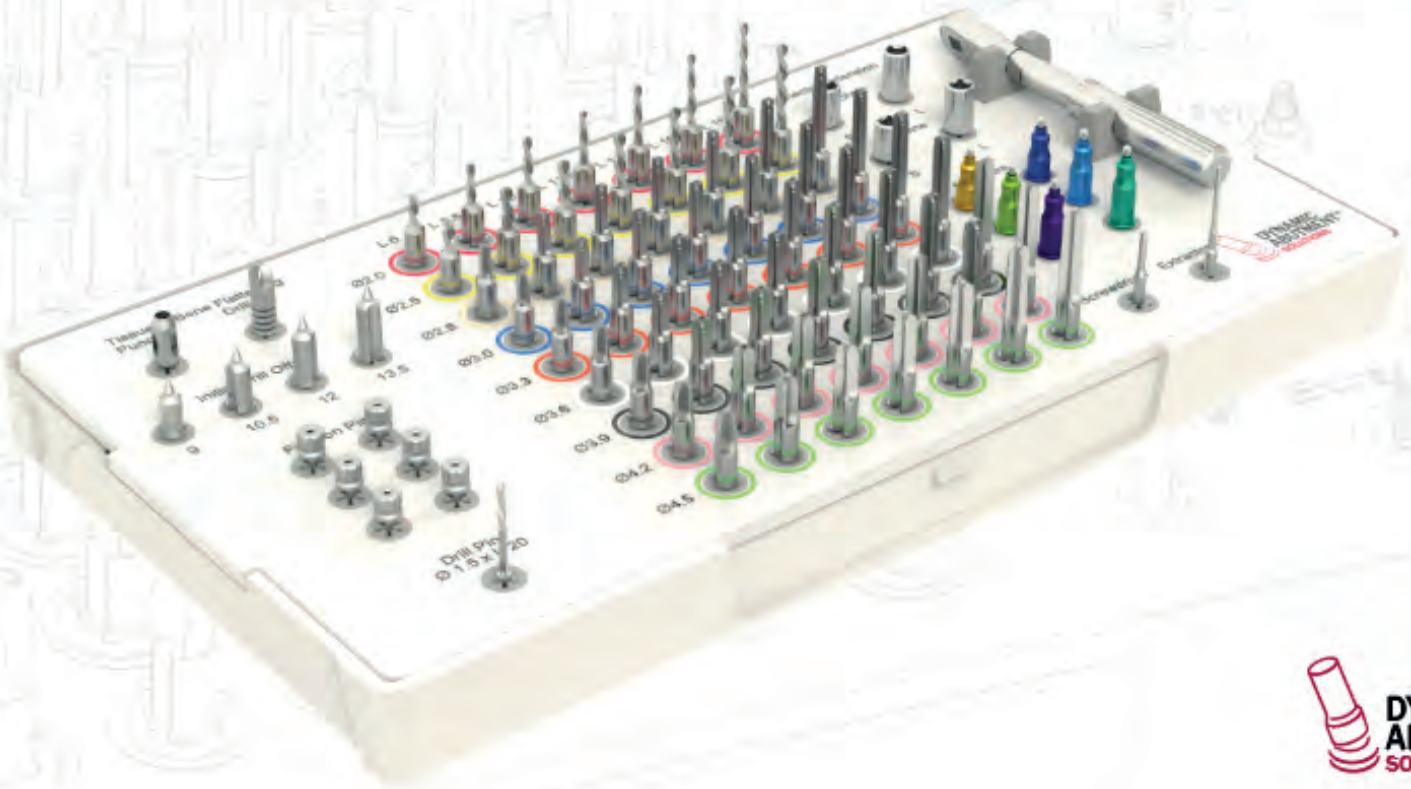
DYNAMIC ABUTMENT SOLUTIONS

GUIDED KIT

DASSURGICAL

UNIVERSAL SYSTEM



DYNAMIC ABUTMENT SOLUTIONS


GUIDED
DASSURGICAL
KIT

INTRODUCTION

GUIDED DASSURGICAL KIT

This manual is aimed exclusively at clinical professionals. The manual, including all images and logos, is protected by copyright. Any use which violates copyright is prohibited and punisable unless authorized in writing by Dynamic Abutment Solutions.

The GUIDED DAS SURGICAL KIT has been designed for use in the placement of all implant systems according to the drills and lengths included in the kit. This is the most versatile guided surgical kit on the market.

The kit includes guided surgical drills, dedicated drivers, and mounting devices for guided surgery. All the components are organized in order to make the workflow easier.


Tissue Punch
Bone Flattening Drill
Ø2.0
Ø2.5
Ø2.8
Ø3.0
Ø3.3
Ø3.6
Ø3.9
Ø4.2
Ø4.5
Connector Extension
Ratchet
Screwdriver
Extractor
DYNAMIC ABUTMENT SOLUTIONS

INDEX

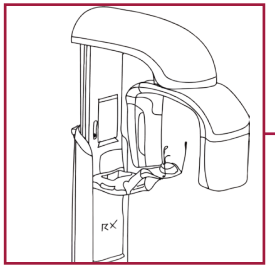

GUIDED
DAS SURGICAL KIT
Tissue Punch
Initial Drill Ø2.0
10.5
Fixation Pin
Ø2.3
Ø3.6
Ø3.9
Ø4.2
Ø4.5
Drill Pin Ø 1.5 x L 20
Screwdriver
Extractor
DYNAMIC ABUTMENT

ADVANTAGES

- Universal Kit
  For all implant systems
  (max. Ø 4,7mm).
- 100% guided drill system.
- Only one DAS Sleeve.
- Guided implant mounts per connection and prosthetic platform.
- Drill up to 19mm.
- Multiple options between implant and mounts.
- The design of the different offsets allows an optimal implant and sleeve placement.
- All calculations and measurements before surgery.
- Minimally invasive.
- Can save bone augmentation and sinus lift.
- Surgery takes less time.
- Abutments and healing caps planned.
- Maximum accuracy.
- Full guided workflow
  Relating to Dynamic TiBase
  and Multi-Unit DAS System.

DAS SURGICAL GUIDE WORKFLOW

CBCT



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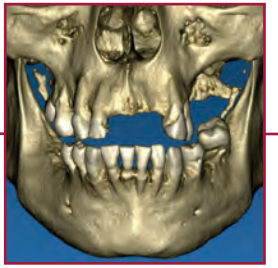
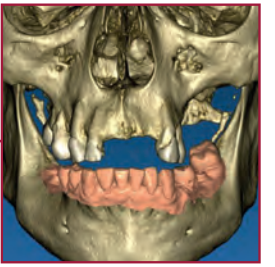
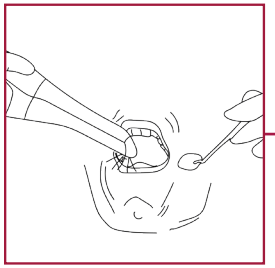
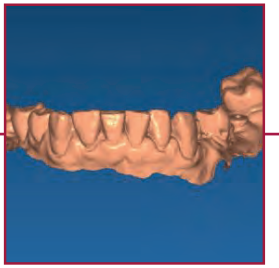


OVERLAP





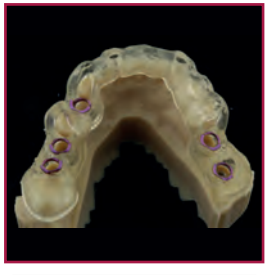
INTRAORAL SCANNER



EXPORT STL FORMAT

LABORATORY
PROSTHETIC MODELING
WITH DAS COMPONENTS

IMPLANT
PLANNING

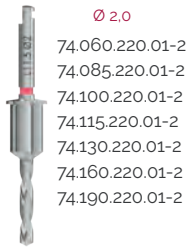


SURGICAL GUIDE

3D PRINTED MODEL

IF NECESSARY

DAS SURGICAL GUIDE KIT



Ø 2,0
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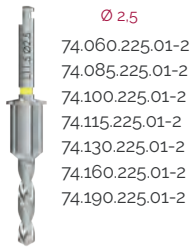
74.085.220.01-2
74.100.220.01-2
74.115.220.01-2
74.130.220.01-2
74.160.220.01-2
74.190.220.01-2



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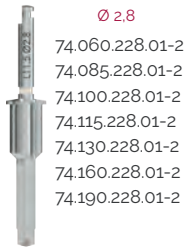

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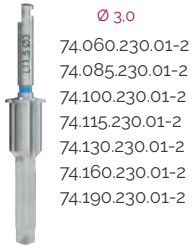

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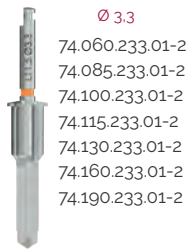
74.130.230.01-2
74.160.230.01-2
74.190.230.01-2



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74.100.233.01-2
74.115.233.01-2
74.130.233.01-2
74.160.233.01-2
74.190.233.01-2

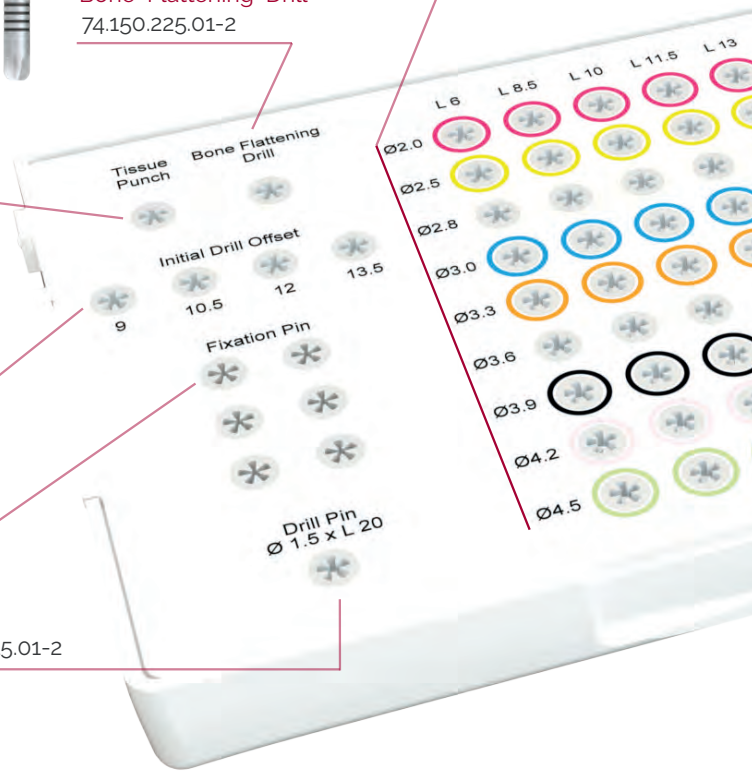
Bone Flattening Drill
74.150.225.01-2

Tissue Punch
74.120.230.01-2

Initial Drill
74.030.220.01-2
74.030.220.02-2
74.030.220.03-2
74.030.220.04-2

Fixation Pin
79.300.004.01-2

Drill Pin
74.200.215.01-2



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74.130.236.01-2
74.160.236.01-2
74.190.236.01-2

Ø 3,9

74.060.239.01-2
74.085.239.01-2
74.100.239.01-2
74.115.239.01-2
74.130.239.01-2
74.160.239.01-2
74.190.239.01-2

Ø 4,2

74.060.242.01-2
74.085.242.01-2
74.100.242.01-2
74.115.242.01-2
74.130.242.01-2
74.160.242.01-2
74.190.242.01-2

Ø 4,5

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74.085.245.01-2
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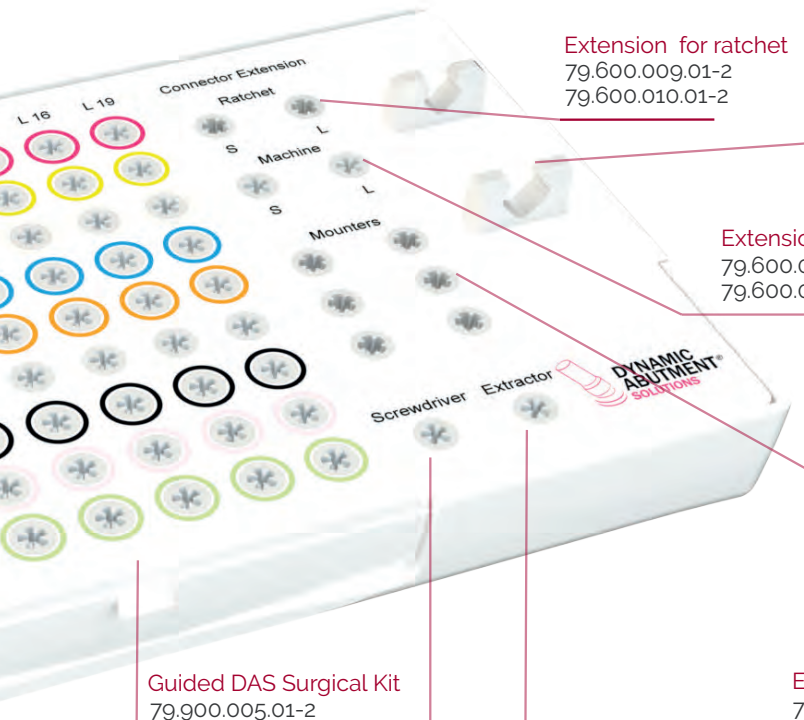
74.130.245.01-2
74.160.245.01-2
74.190.245.01-2



Extension for ratchet
79.600.009.01-2
79.600.010.01-2

Universal manual torque wrench
11.990.990.07-2

Extension for machine
79.600.007.01-2
79.600.008.01-2

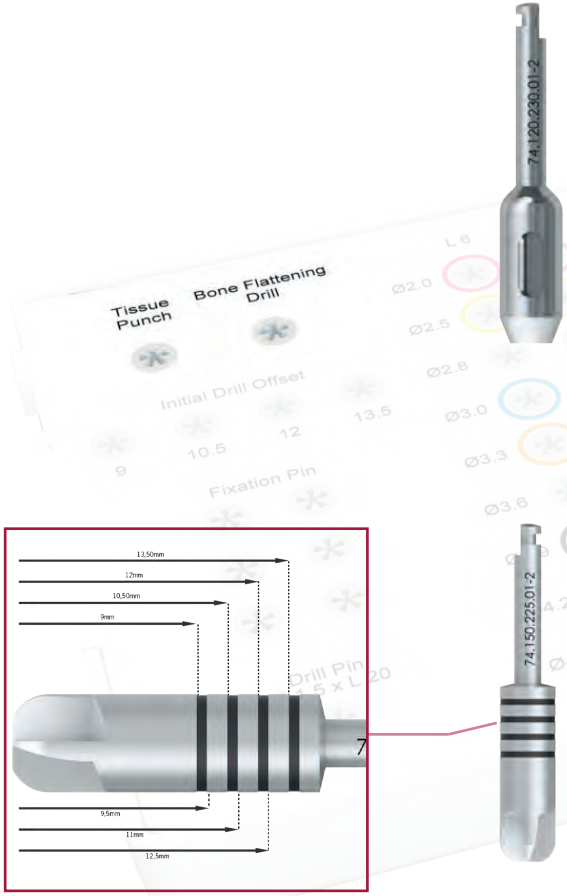
Implant Mounts
72.xxx.xxx.48-2*

*Depends on compatibility

Guided DAS Surgical Kit
79.900.005.01-2

Extractor
79.300.001.02-2

Screwdriver Hex. 1,2
43.601.103.02-2



Black stripes
indicate the offset.

Tissue Punch
74.120.230.01-2

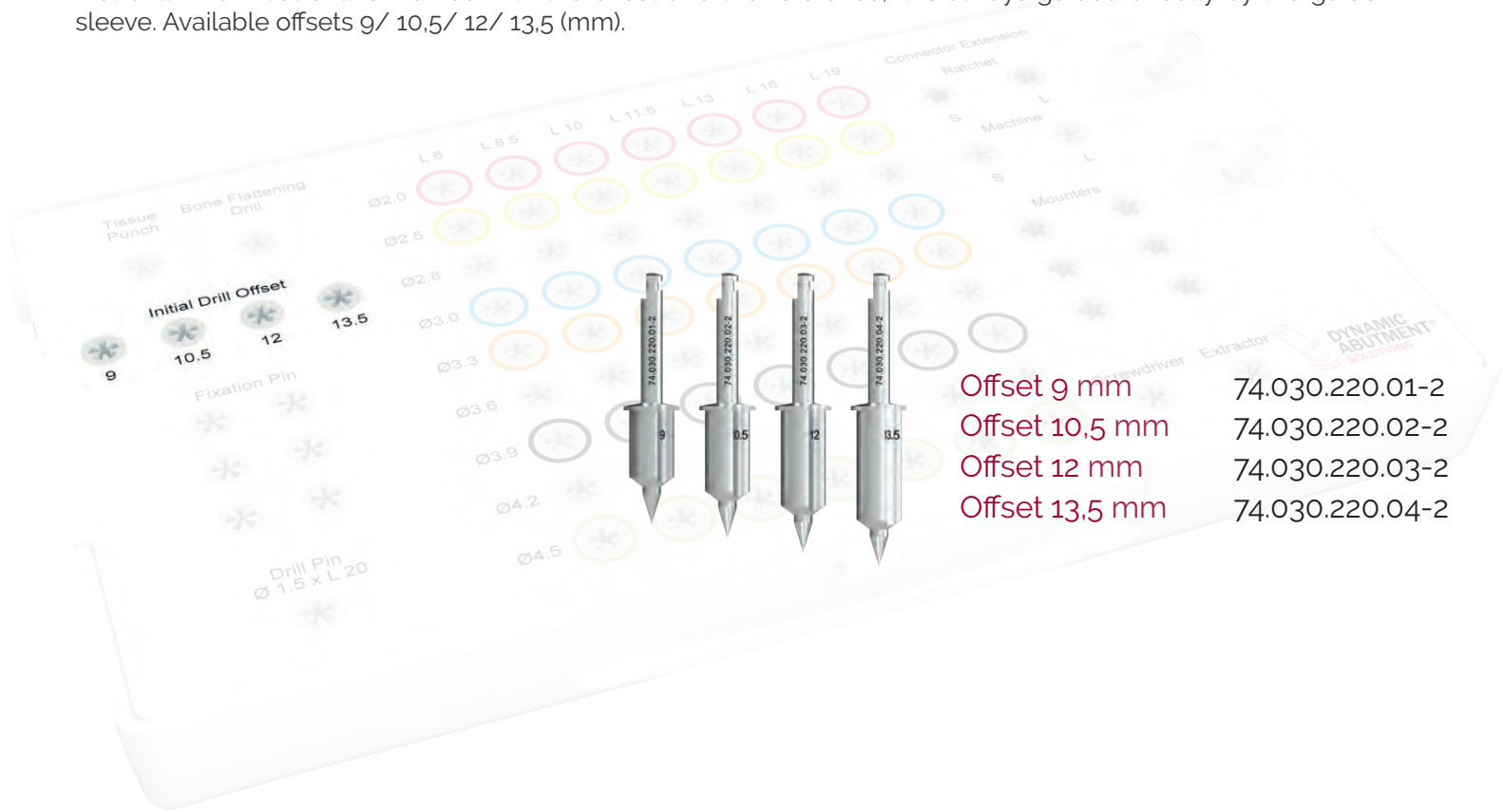
The tissue punch is used to make a minimally invasive circular incision in the soft tissue around each planned implant position. This tool creates a 3 mm diameter mucotomy prior to the passage of drills when using a flapless surgical technique. It is a single punch guided directly by the guide sleeve. In case of little keratinized gingival tissue, it is not recommended to use the tissue punch but to make a flap in line with the implant position.

Bone Flattening Drill
74.150.225.01-2

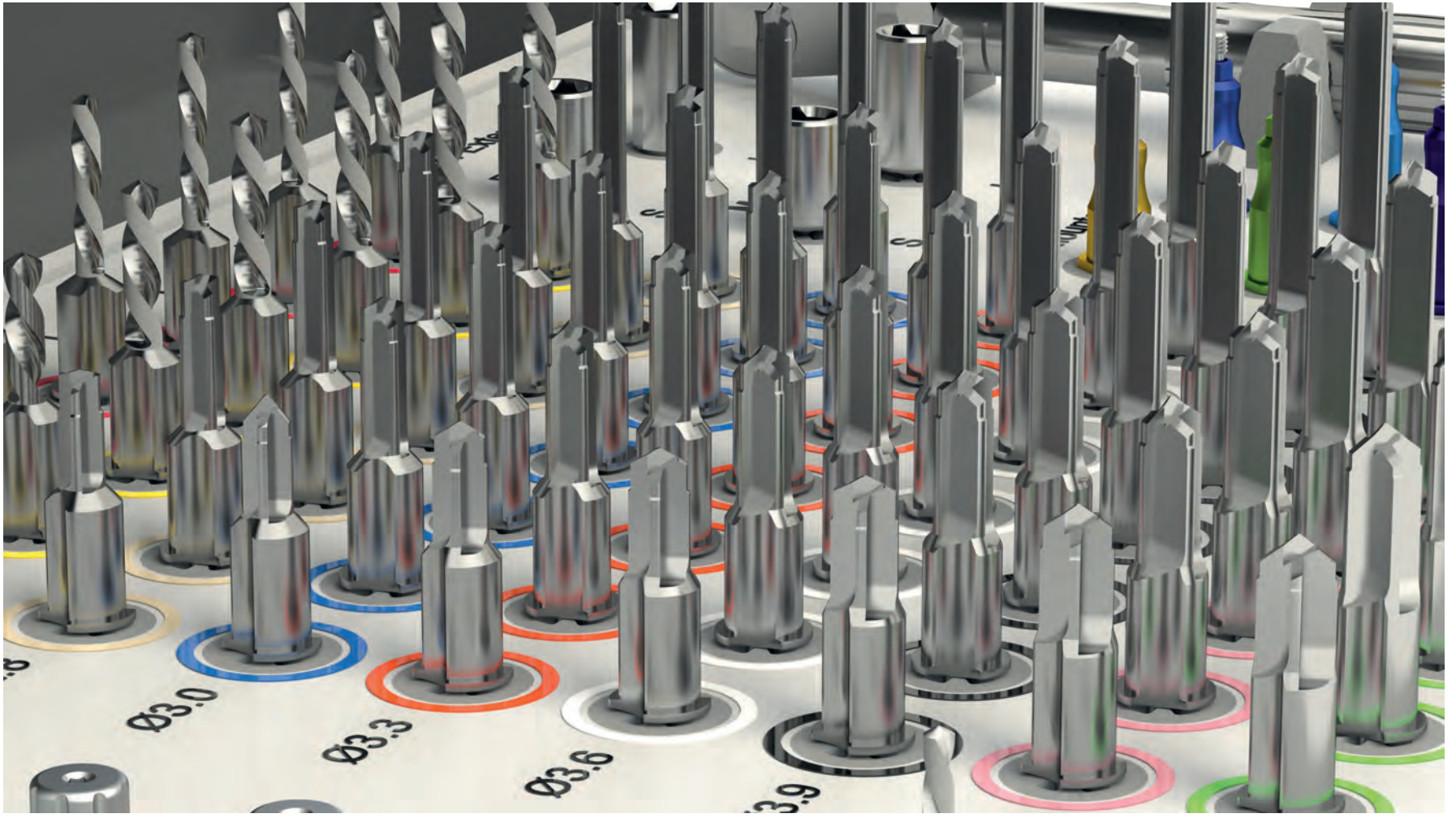
The bone flattening Drill is used to flatten the surface of the alveolar crest, and the remaining soft tissue on the alveolar crest is removed after using the tissue punch.

Initial Drill

The initial drill removes the mucosa cut by the mucotomy and prepares the cortical bone for the passage of the first drill. The initial drill is marked with the offset and the reference, it is always guided directly by the guide sleeve. Available offsets 9/ 10,5/ 12/ 13,5 (mm).



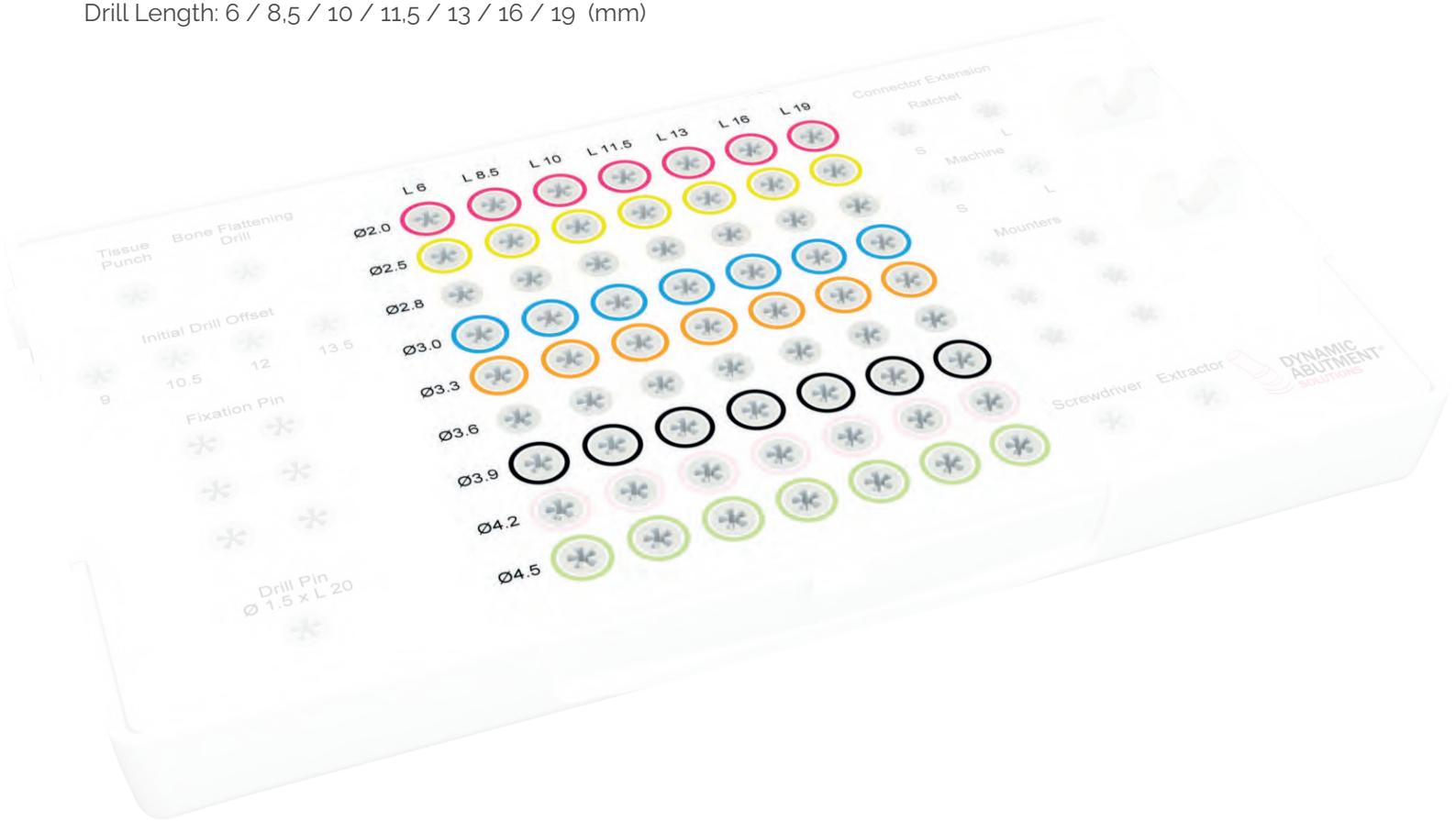
Offset 9 mm	74.030.220.01-2
Offset 10,5 mm	74.030.220.02-2
Offset 12 mm	74.030.220.03-2
Offset 13,5 mm	74.030.220.04-2


Ø3.0
Ø3.3
Ø3.6

Drills

Built-in stoppers ensure precise and accurate drilling to the desired depth. The different drills diameters and lengths allow doctors to plan and decide which is the best solution before starting surgery. The GUIDED DAS SURGICAL KIT is intuitive, easy and effortless, allowing logic and simple procedures. It is necessary to check our catalogue for the compatibilities and implant position, depending on the needs of each case. Each offset requires different drill lengths.

Drill diameter: 2/ 2,5/ 2,8/ 3/ 3,3/ 3,6/ 3,9/ 4,2/ 4,5 (mm)
Drill Length: 6 / 8,5 / 10 / 11,5 / 13 / 16 / 19 (mm)



74.xxx.220.01-2*

74.xxx.225.01-2*

74.xxx.228.01-2*

74.xxx.230.01-2*

74.xxx.233.01-2*

74.xxx.236.01-2*

74.xxx.239.01-2*

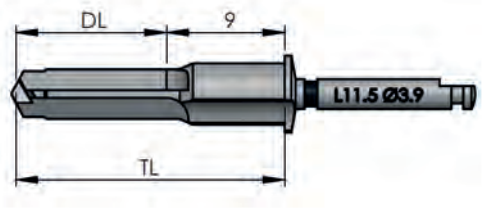
74.xxx.242.01-2*

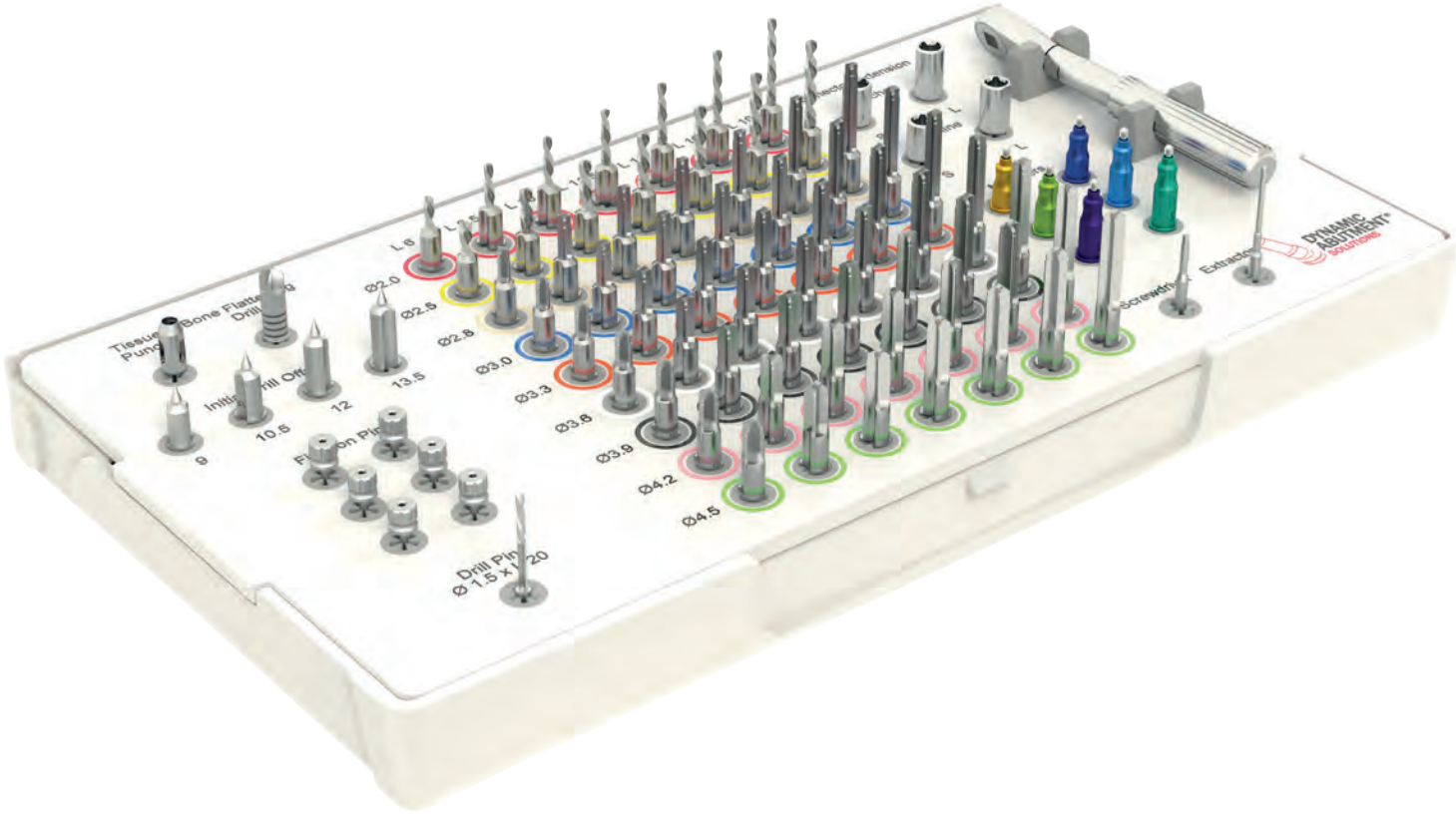
74.xxx.245.01-2*

*xxx: drill length (DL)

Ø DRILL	TL (Total length)	DL (Drill length)	Code
Ø 2,0	15	6	74.060.220.01-2
	17,5	8,5	74.085.220.01-2
	19	10	74.100.220.01-2
	20,5	11,5	74.115.220.01-2
	22	13	74.130.220.01-2
	25	16	74.160.220.01-2
	28	19	74.190.220.01-2
Ø 2,5	15	6	74.060.225.01-2
	17,5	8,5	74.085.225.01-2
	19	10	74.100.225.01-2
	20,5	11,5	74.115.225.01-2
	22	13	74.130.225.01-2
	25	16	74.160.225.01-2
	28	19	74.190.225.01-2
Ø 2,8	15	6	74.060.228.01-2
	17,5	8,5	74.085.228.01-2
	19	10	74.100.228.01-2
	20,5	11,5	74.115.228.01-2
	22	13	74.130.228.01-2
	25	16	74.160.228.01-2
	28	19	74.190.228.01-2
Ø 3,0	15	6	74.060.230.01-2
	17,5	8,5	74.085.230.01-2
	19	10	74.100.230.01-2
	20,5	11,5	74.115.230.01-2
	22	13	74.130.230.01-2
	25	16	74.160.230.01-2
	28	19	74.190.230.01-2
Ø 3,3	15	6	74.060.233.01-2
	17,5	8,5	74.085.233.01-2
	19	10	74.100.233.01-2
	20,5	11,5	74.115.233.01-2
	22	13	74.130.233.01-2
	25	16	74.160.233.01-2
	28	19	74.190.233.01-2

Ø DRILL	TL (Total length)	DL (Drill length)	Code
Ø 3,6	15	6	74.060.236.01-2
	17,5	8,5	74.085.236.01-2
	19	10	74.100.236.01-2
	20,5	11,5	74.115.236.01-2
	22	13	74.130.236.01-2
	25	16	74.160.236.01-2
	28	19	74.190.236.01-2
Ø 3,9	15	6	74.060.239.01-2
	17,5	8,5	74.085.239.01-2
	19	10	74.100.239.01-2
	20,5	11,5	74.115.239.01-2
	22	13	74.130.239.01-2
	25	16	74.160.239.01-2
	28	19	74.190.239.01-2
Ø 4,2	15	6	74.060.242.01-2
	17,5	8,5	74.085.242.01-2
	19	10	74.100.242.01-2
	20,5	11,5	74.115.242.01-2
	22	13	74.130.242.01-2
	25	16	74.160.242.01-2
	28	19	74.190.242.01-2
Ø 4,5	15	6	74.060.245.01-2
	17,5	8,5	74.085.245.01-2
	19	10	74.100.245.01-2
	20,5	11,5	74.115.245.01-2
	22	13	74.130.245.01-2
	25	16	74.160.245.01-2
	28	19	74.190.245.01-2

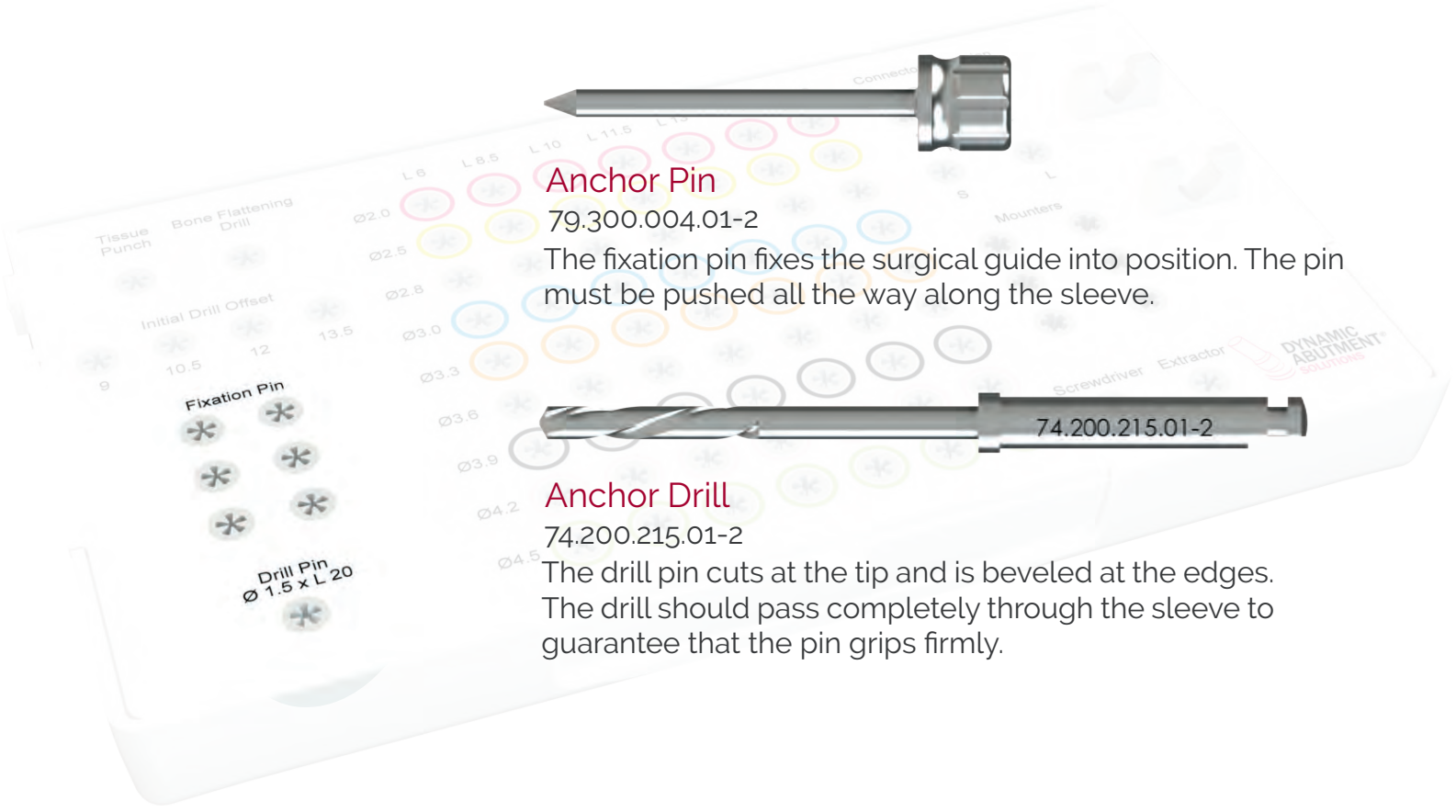



Ø2.0
Ø2.5
Ø2.8
Ø3.0
Ø3.3
Ø3.8
Ø3.9
Ø4.2
Ø4.5
13.5
12
10.6
9
DYNAMIC ABUTMENT SOLUTIONS

GUIDED DASSURGICAL KIT

All components of the guided surgery kit are detailed further on.

ANCHOR DRILL AND PIN



Anchor Pin

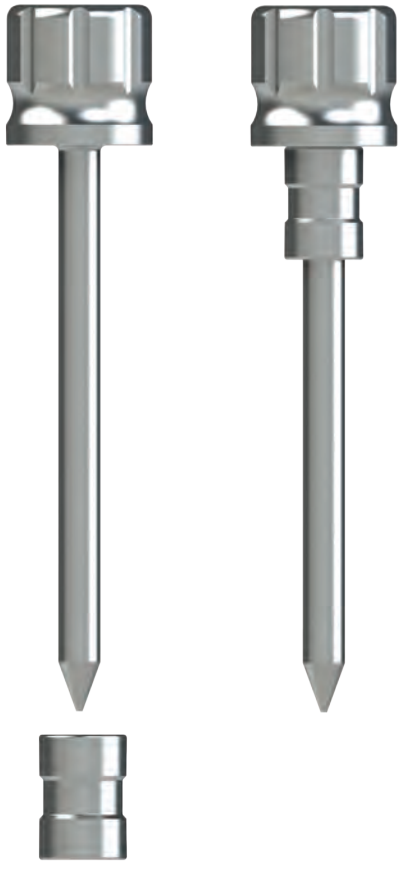
79.300.004.01-2

The fixation pin fixes the surgical guide into position. The pin must be pushed all the way along the sleeve.

Anchor Drill

74.200.215.01-2

The drill pin cuts at the tip and is beveled at the edges. The drill should pass completely through the sleeve to guarantee that the pin grips firmly.



One single anchor pin Ø1,5mm with length 20mm.

Anchor Pin

79.300.004.01-2

The fixation pin fixes the surgical guide into position. The pin must be pushed all the way along the sleeve.

One single inner sleeve of Ø1,5 mm diameter.

DAS Anchor Sleeve

71.340.153.01-2

Cylindrical pieces that are incorporated to the ferule to allow the placement of the anchor pins.

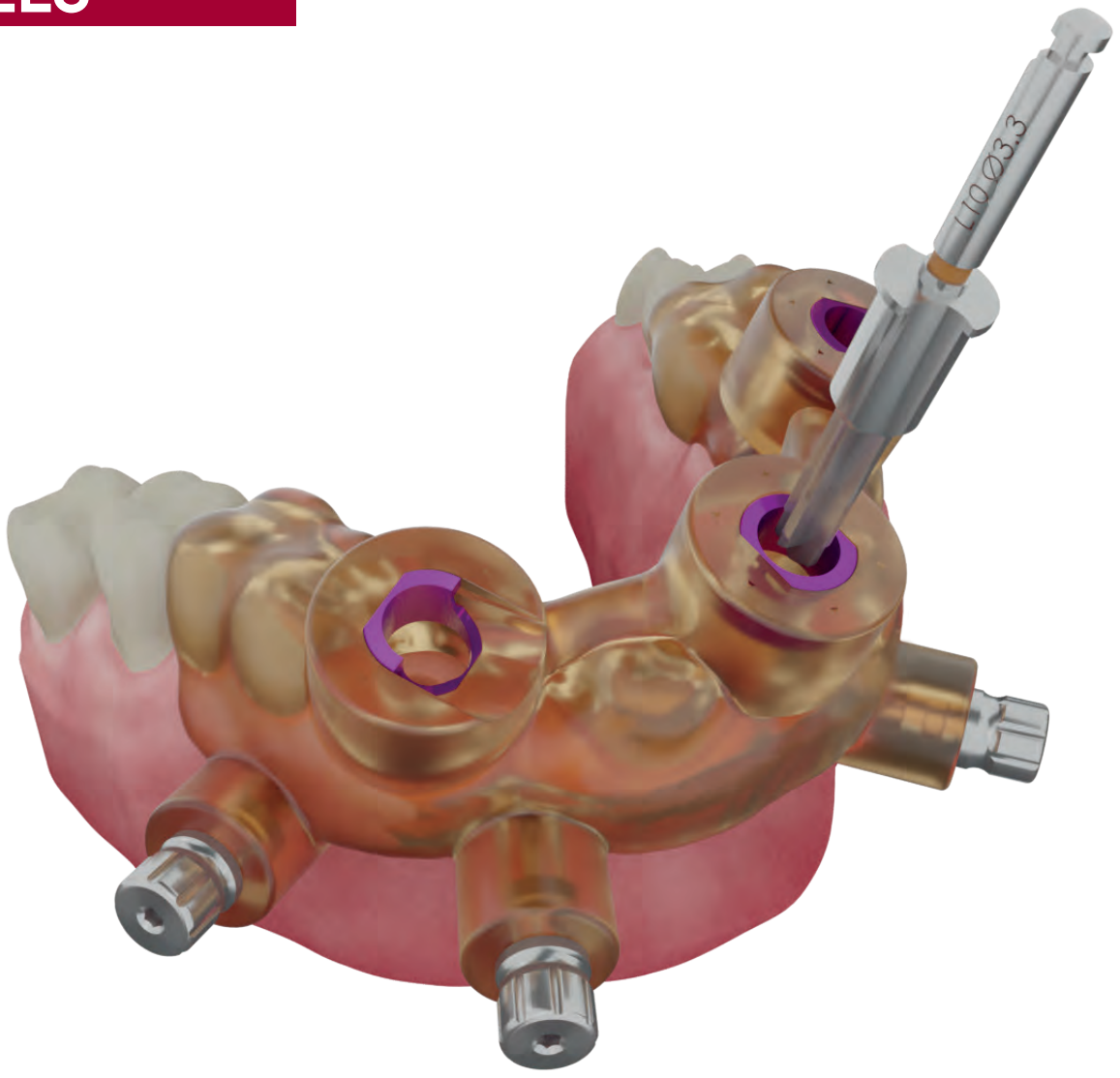
Anchor Pin

74.200.215.01-2

The fixation drill pins cuts at the tip and is beveled at the edges. The drill should pass completely through the sleeve to guarantee that the pin grips firmly.

One single drill with L20 mm and Ø1,5 mm.

DRILLS



The main configuration of the drills:

All drills are guided

Identification mark

Laser mark with length, diameter and reference.

Identification colour

Marked in colour to identify the diameter

Stopper area with the sleeve

Inactive zone

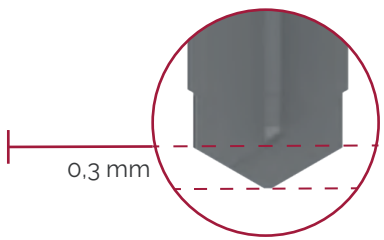
Inactive zone of Ø 4.8mm

Transition zone

Transition zone between active and inactive part to avoid contact with bone.

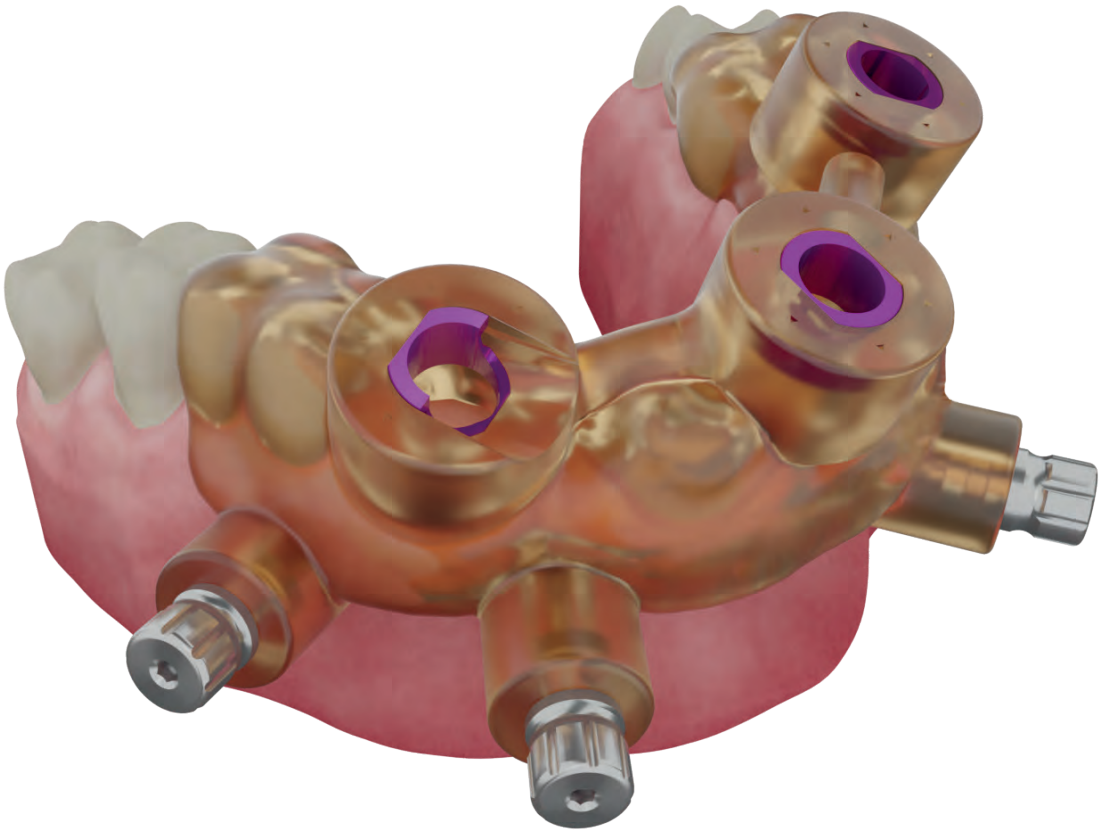
Guided area geometry

Two cuts zone in the cylindrical area sleeves stopper allowing for irrigation.



Dynamic Abutment Solutions drills have 0.3mm longer drill tip. It is important to take this information in consideration when positioning the implant. Especially when working in areas of sensitive anatomical structures.

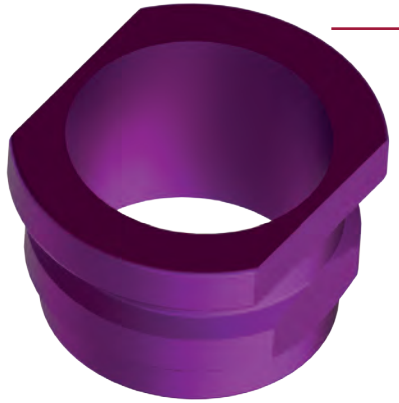
SLEEVES



One single sleeve for all implant systems.

DAS Sleeve
71.340.485.01-2

Once fixed to the surgical guide, it allows the guided drilling sequence and the placement of the implant in the planned position.

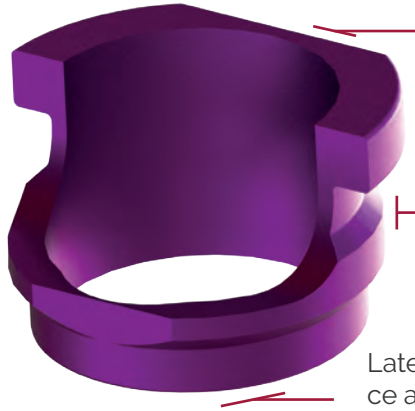


Inner diameter according to the drills and implant mounts.

Two lateral cuts to fix the sleeve in one position and reference the direction of the implant connection.

DAS Cut Sleeve*
71.340.485.02-2

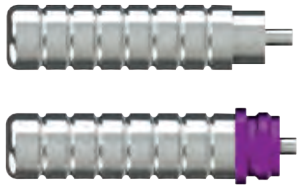
The cut sleeve provides a mesial access to aid when there is difficulty in inserting the drills from above. The lateral opening allows for an easier access in areas where the length of the drills would be a hindrance. Thanks to the lateral opening, which is also printed in the guide, it is possible to pass the drills laterally.



Inner diameter according to drills and implant mounts.

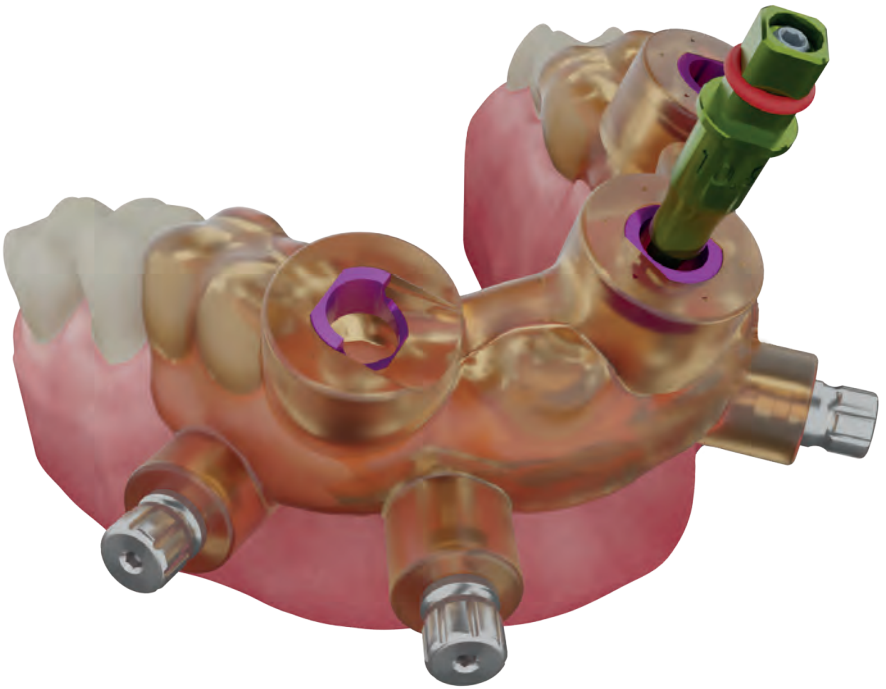
Two lateral cuts to fix the sleeve in one position and reference the direction of the implant connection.

Lateral access provides additional convenience and facilitates guided surgery in cases with limited space.



*Use the Dynamic Abutment Solution Sleeve Gripper (79.300.003.02-2) to insert the sleeve into the surgical guide.

IMPLANT MOUNT



Inner Thread

Internal thread to allow the use of an extractor if required.

Lateral Cut

Cut that maintains the alignment with the connection to reference the implant position.

Number code and colour

Implant mount is identified by offset code and colour. The diversity of offsets allow to plan different work combinations.

Stop zone

Stop zone with the sleeve for 100% guided implant placement.

Concave zone

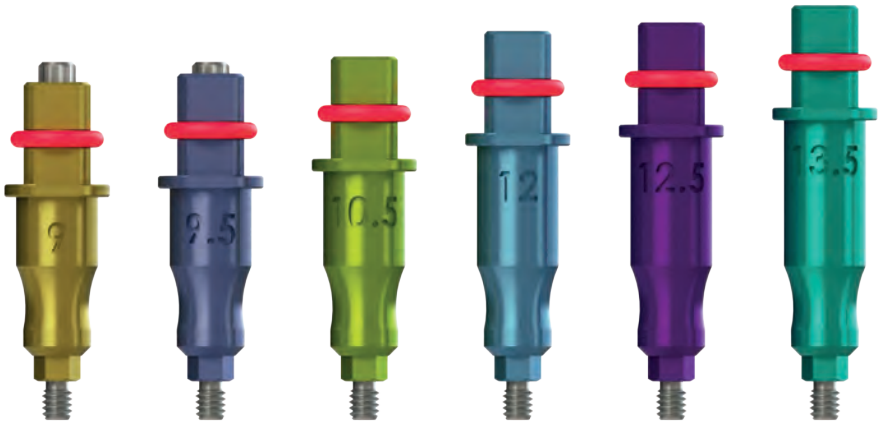
Concave area to avoid contact with bone.

Implant mount

The implant mount connects to the implant by means of the clamping screw and goes in the direction and to the depth of the implant through the surgical guide. Thanks to the lateral cuts of the stop zone on the implant mount you can also check the position of the connection of the implant through the surgical guide.

Available different offsets

Check the "work offsets by compatibility" document to find in the information in the Dynamic Abutment Solutions catalogue.



*Example: Alphabio Internal Hex

Implant mount colours according to offset

9

9,5

10

10,5

11

11,5

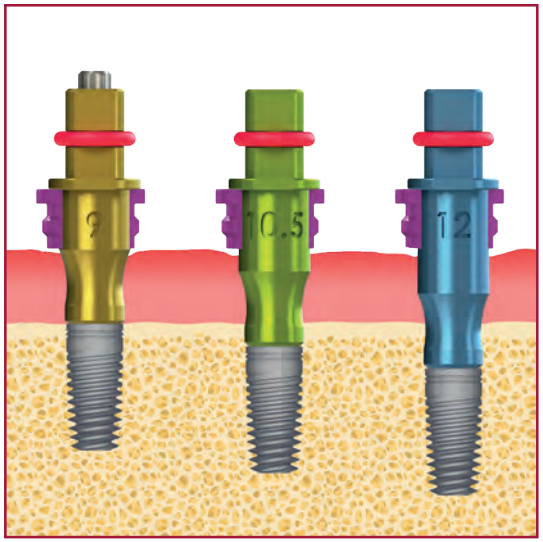
12

12,5

13

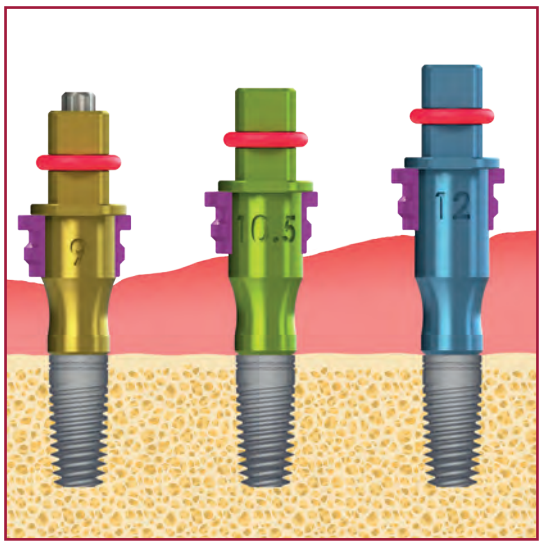
13,5

The implant mount is anodised according to the offset to facilitate its identification in surgery.

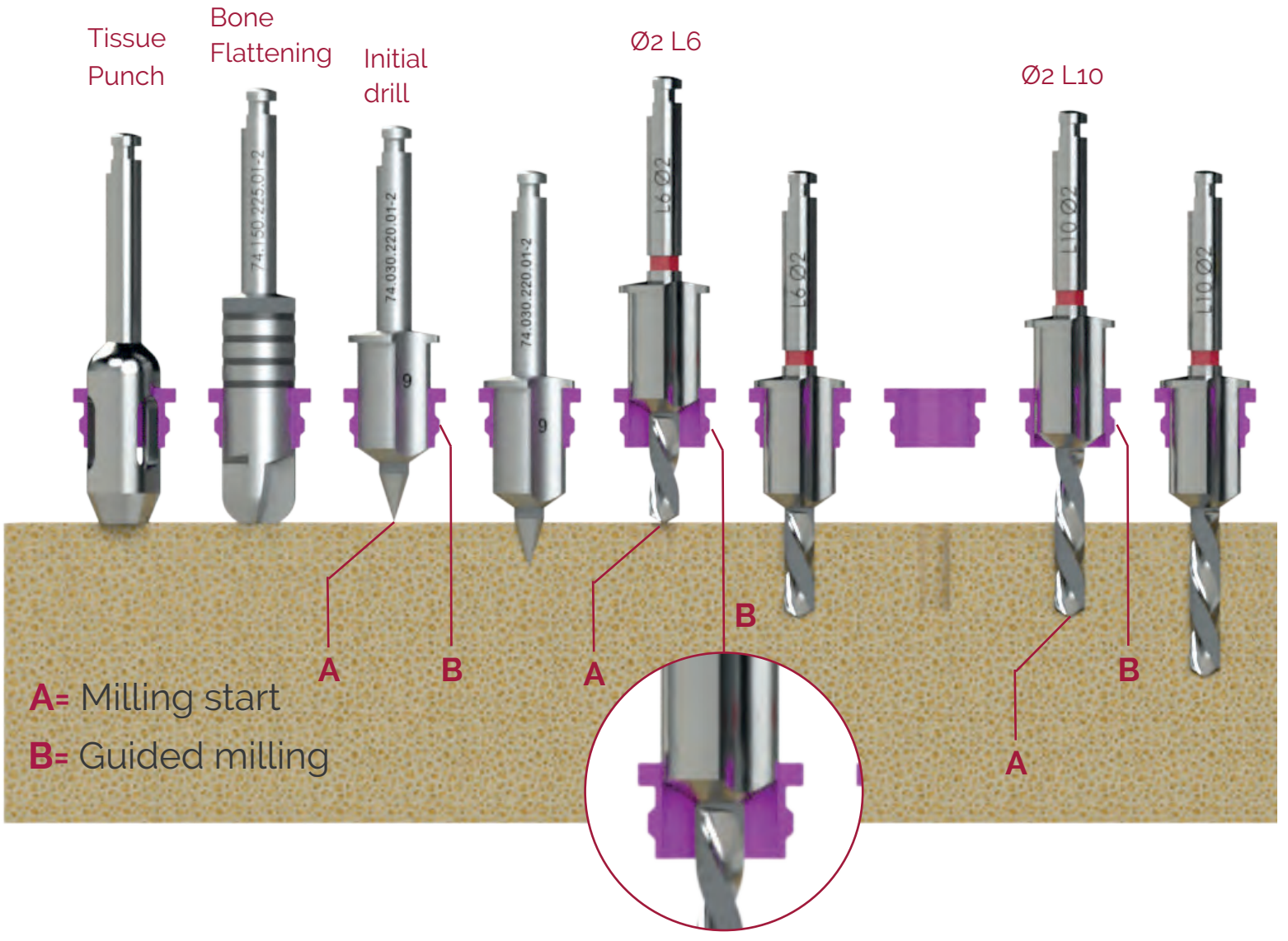


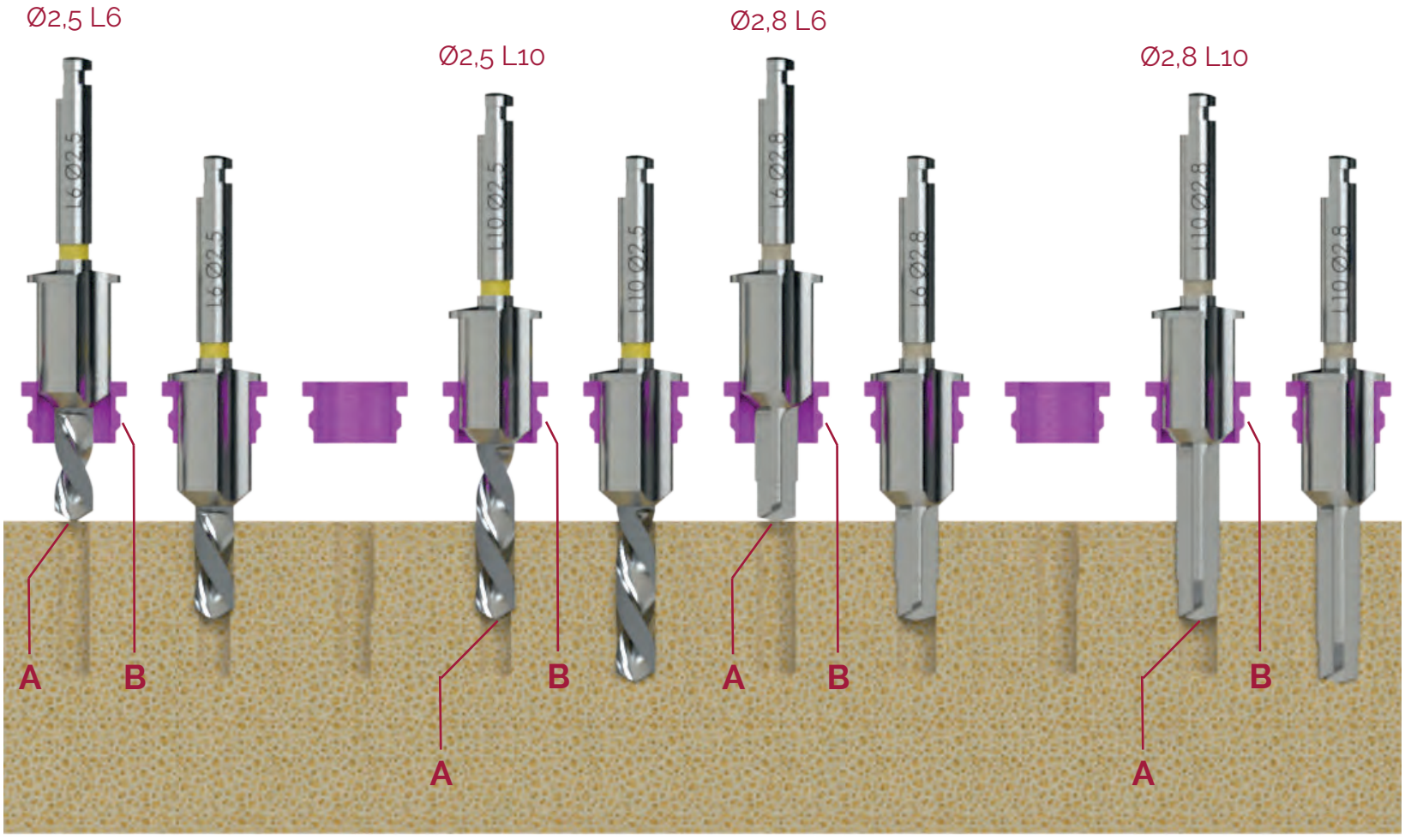
Available different offsets (Example of Alphabio Internal hex - Implant length 10mm)

Each implant has different working offsets so that the sleeves can be placed on the implant in the desired working position.



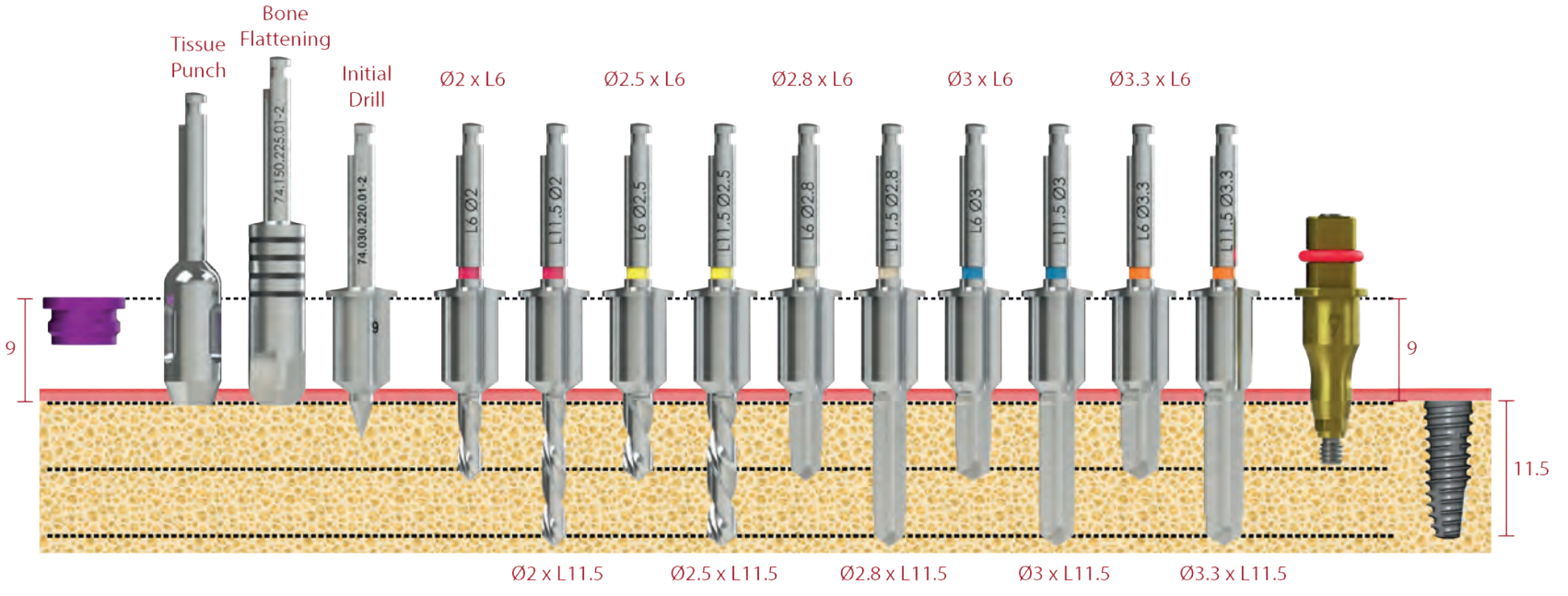
100% GUIDED SURGERY PROCESS




Ø2,5 L6
Ø2,5 L10
Ø2,8 L6
Ø2,8 L10
L6 Ø2.5
L6 Ø2.5
L10 Ø2.5
L10 Ø2.5
L6 Ø2.8
L6 Ø2.8
L10 Ø2.8
L10 Ø2.8
A
B
A
B
A
B
A
B

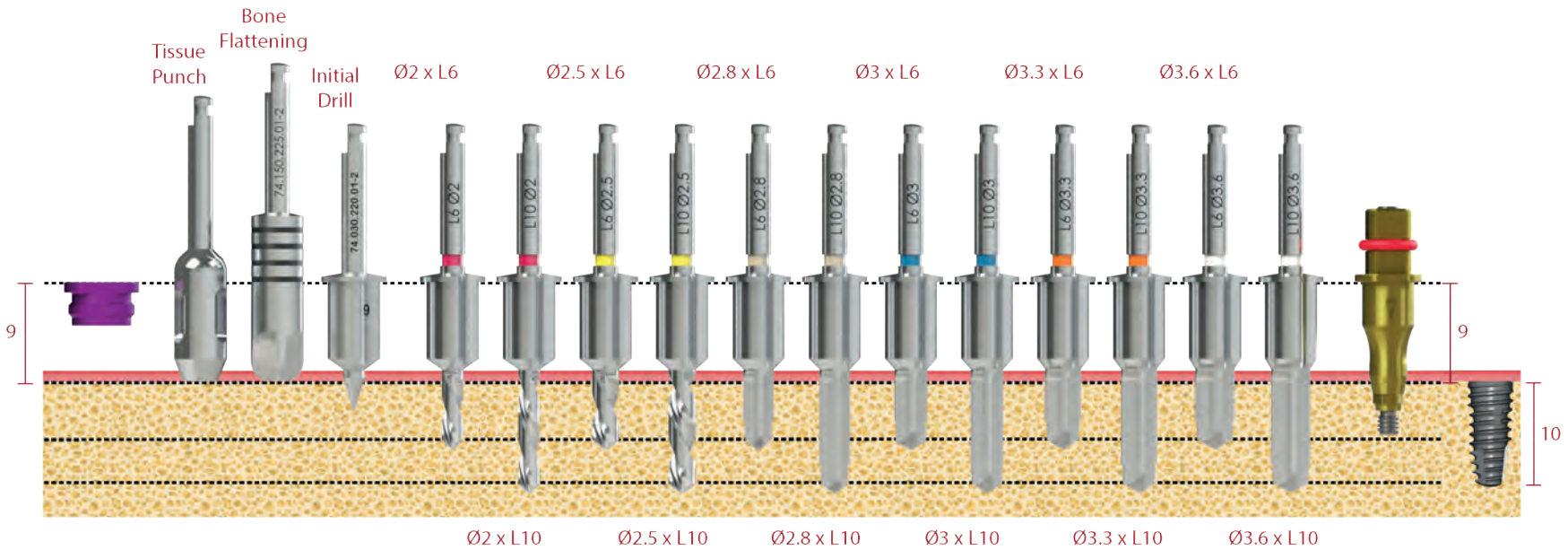
DRILL SEQUENCE EXAMPLE

Drills sequence for Bone Level implant Ø3.5 x L11.5



NOTE: Depending on the bone density (detectable even through the diagnostics software functions), the Doctor may decide on the diameter of the final drill, based on his own clinical experience and depending on the geometry of the implant, for a possible under-preparation of the surgical site in order to increase the stability of the implant

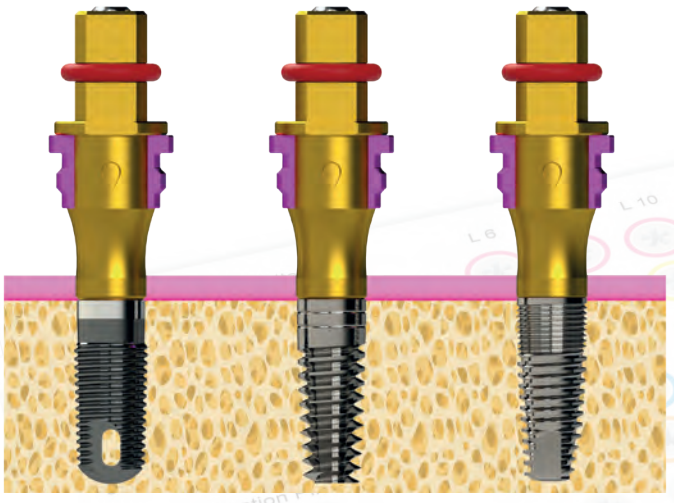
Drills sequence for Bone Level implant Ø4.0 x L10



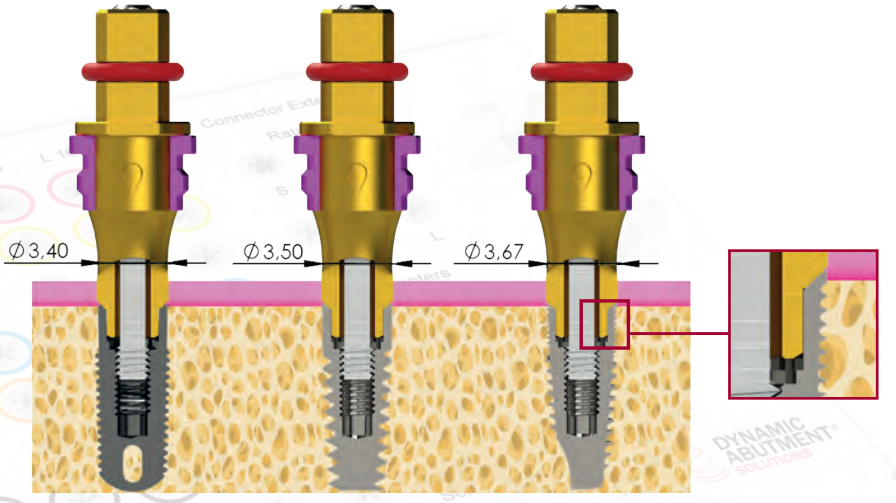
NOTE: Depending on the bone density (detectable even through the diagnostics software functions), the Doctor may decide on the diameter of the final drill, based on his own clinical experience and depending on the geometry of the implant, for a possible under-preparation of the surgical site in order to increase the stability of the implant

SAME CONNECTION - DIFFERENT IMPLANT MOUNT

*An example using Internal Hexagon compatible with 0040



ZIMMER SCREWVENT 3,5 | ALPHABIO DFI 3,3 | CORTEX CLASSIX 3,8



ZIMMER SCREWVENT 3,5 | ALPHABIO DFI 3,3 | CORTEX CLASSIX 3,8

Zimmer implant mount with:

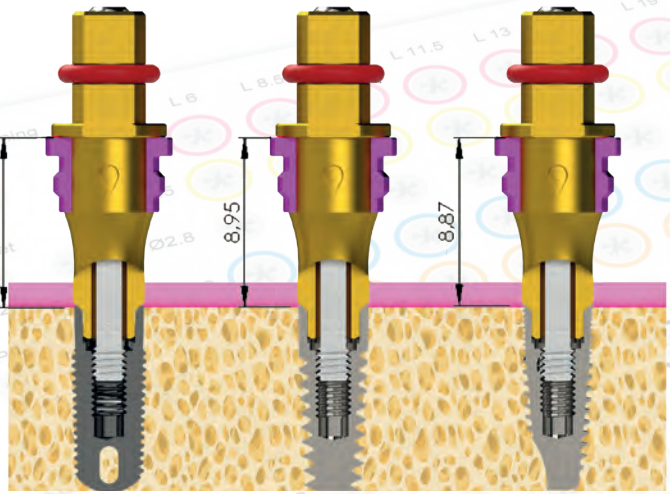
ZIMMER, ALPHABIO, CORTEX — Same internal hexagon, Same connection

The same mounter is simulated for each implant.

ZIMMER, ALPHABIO, CORTEX — Closing of each implant mount is different

Offset 9mm → ZIMMER → OK

Planification
Final execution



ZIMMER SCREWVENT 3,5	ALPHABIO DFI 3,3	CORTEX CLASSIX 3,8

Same implant mount for — ALPHABIO CORTEX → Error

When the closing is different → Each implant requires a different mount.

EXTENSORS

Short & Long Extension for Ratchet

79.600.009.01-2 (short)
79.600.010.01-2 (large)

Extension for connection between the torque wrench and the implant mount.

Short & Long Extension for Machine

79.300.007.01-2 (short)
79.300.008.01-2 (large)

Connector for guiding the implant mount with surgical hand piece.

SCREWDRIVER & EXTRACTOR

Screwdriver Hex.1,2

43.601.103.02-2

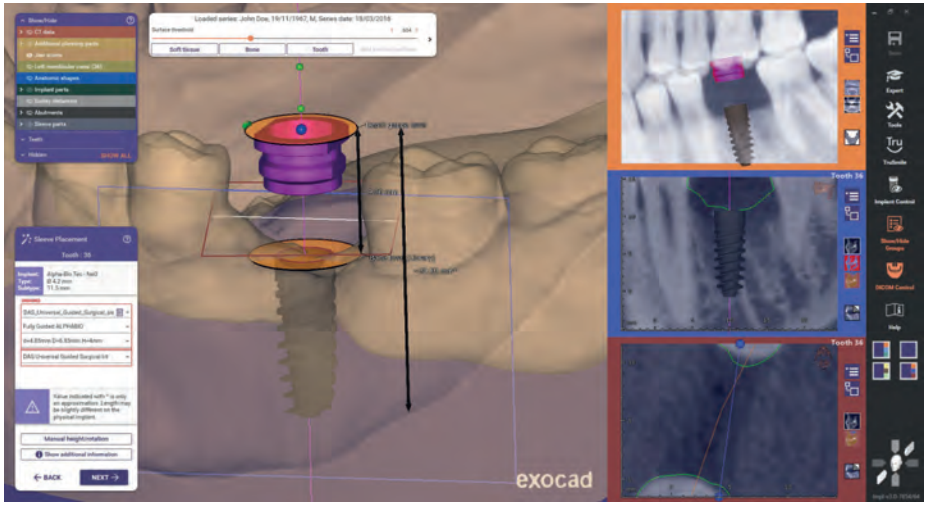
Screwdriver to tighten the screw of the implant mount and other screws Hex. 1.20 mm

Extractor

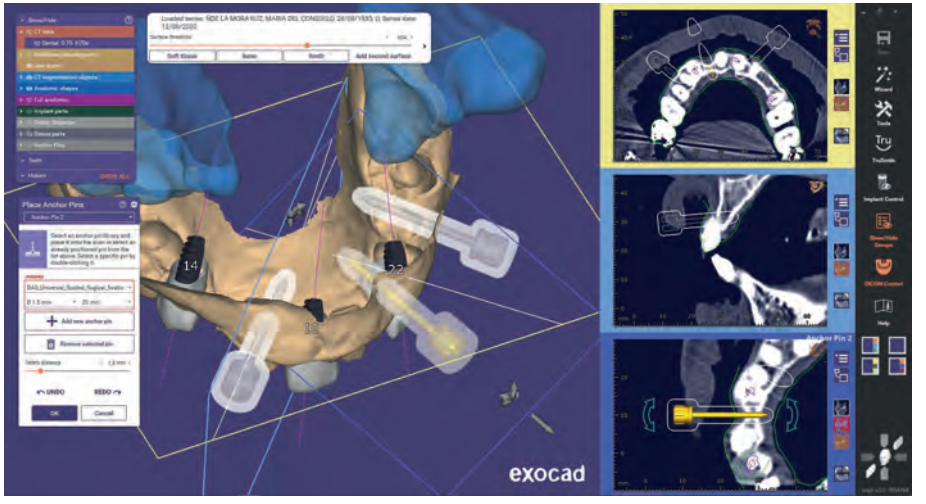
79.300.001.01-2

This tool is to be used to separate the implant mount in cases when it becomes lodged using the following instructions.
Unscrew the implant mount screw and remove.
Screw the extractor into the implant mount in order to release the implant mount from the implant.

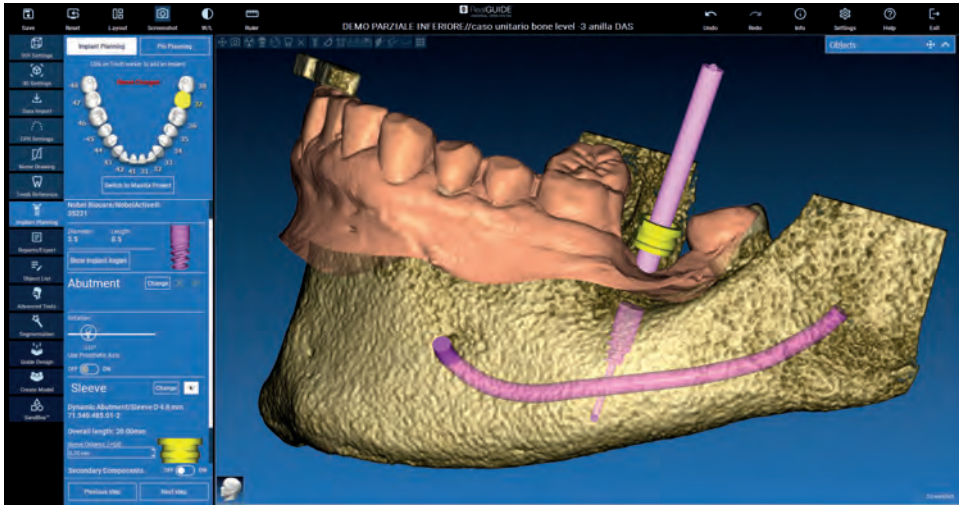
LIBRARIES



exoplan



*Request libraries: das@dynamicabutment.com



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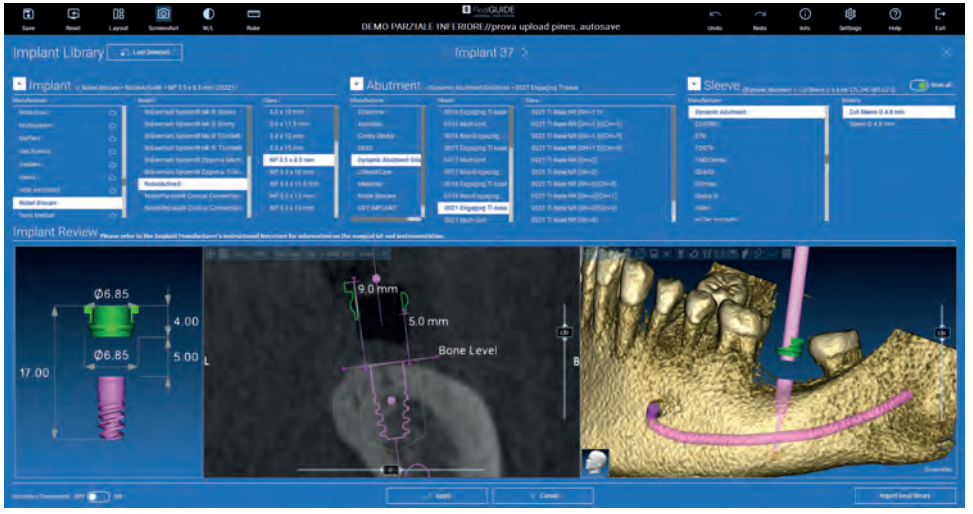

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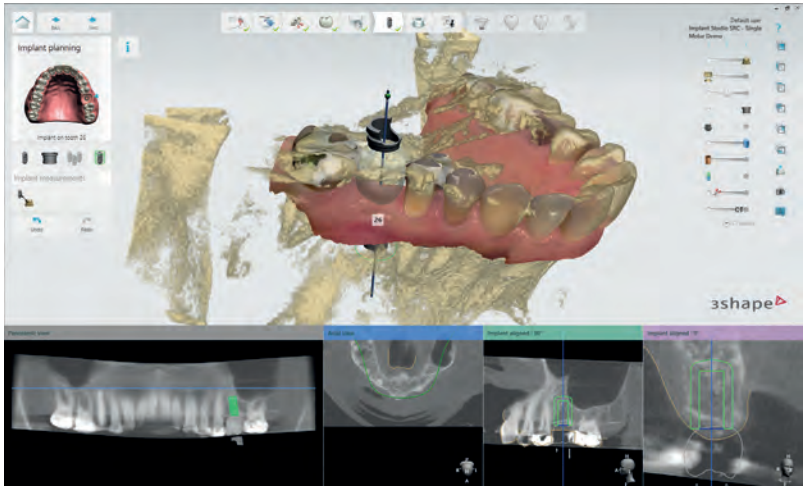
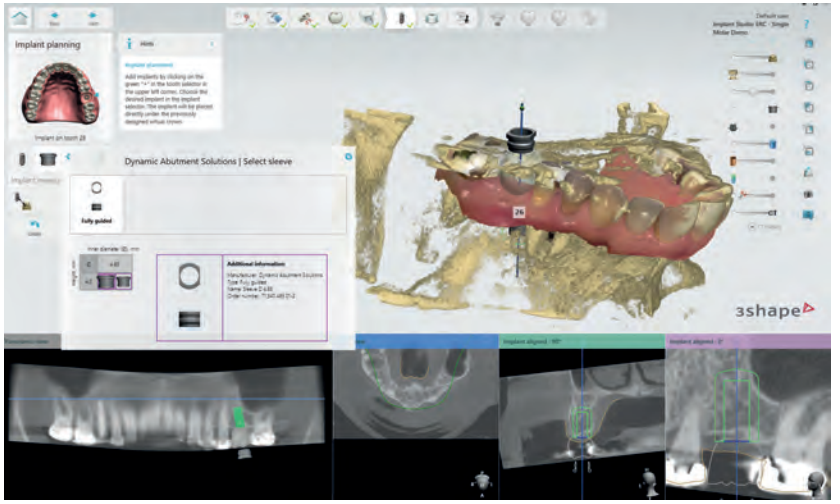


3shape

Implant Studio



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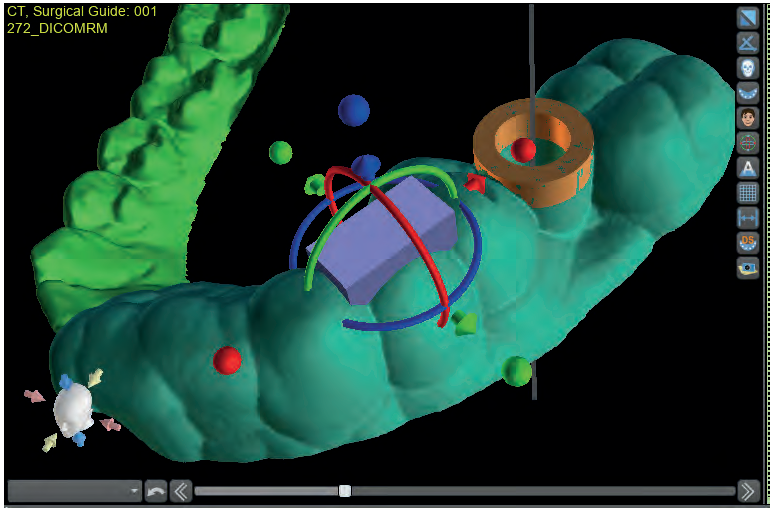
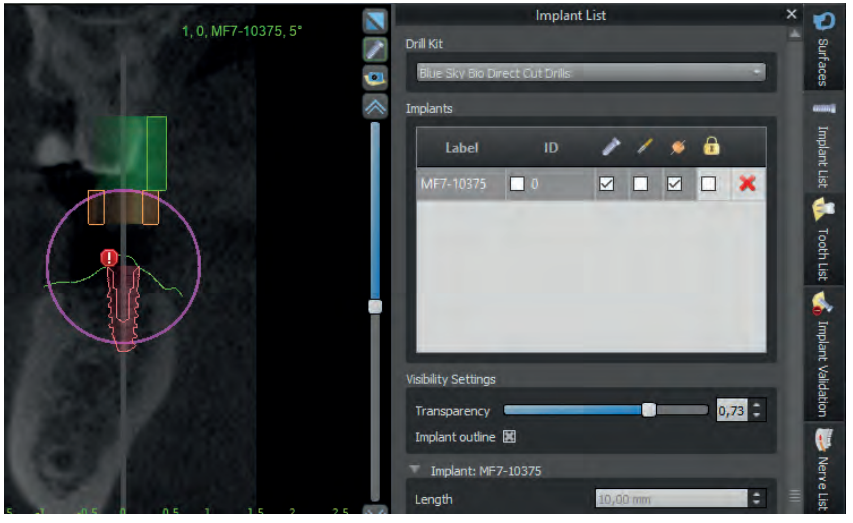


BlueSkyBio



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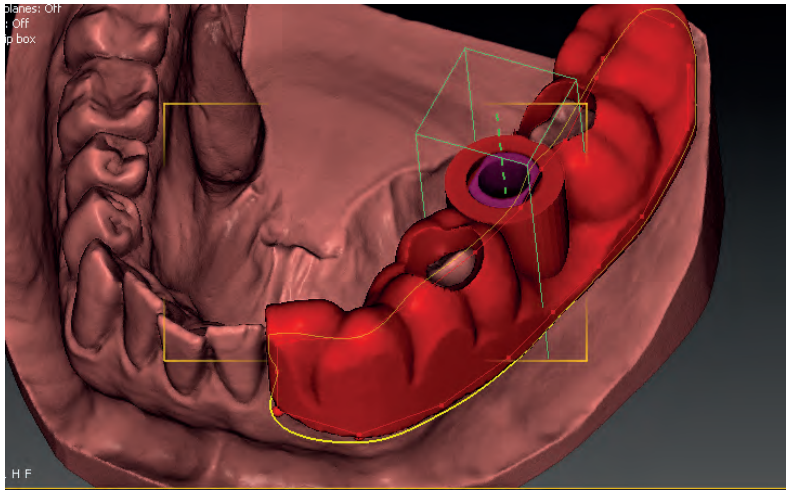

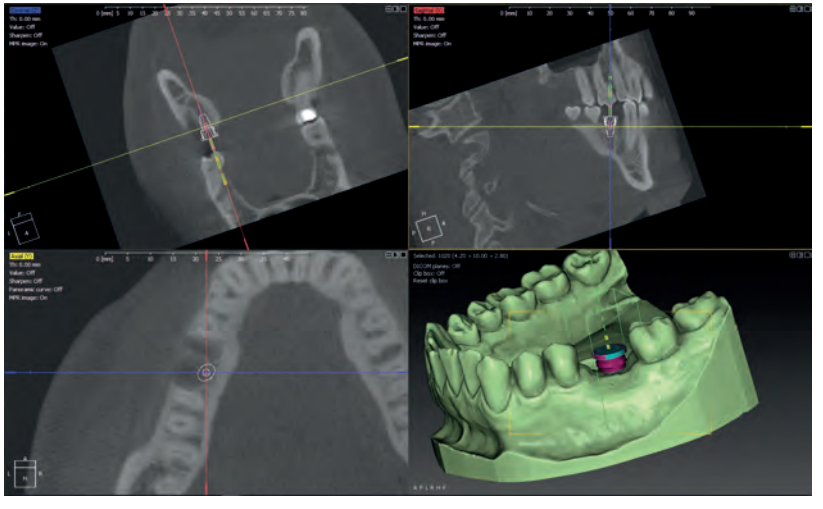

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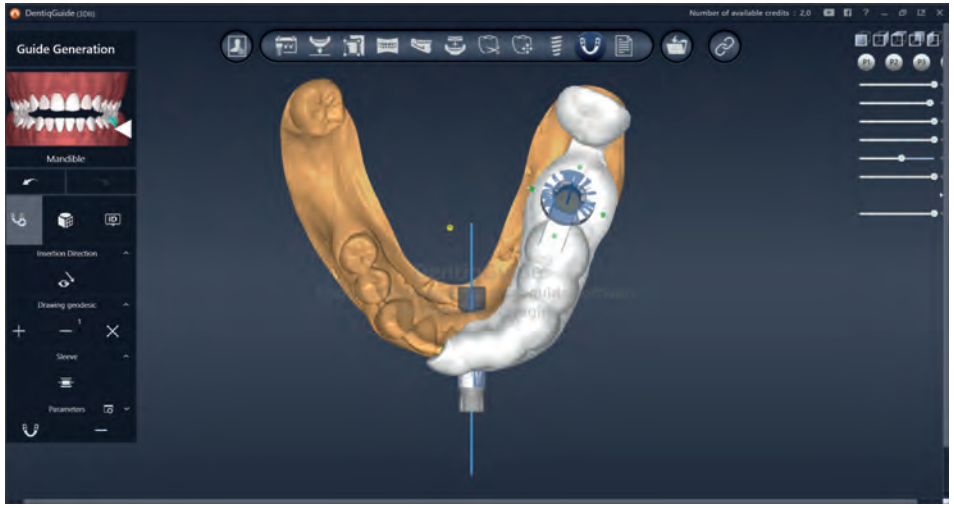
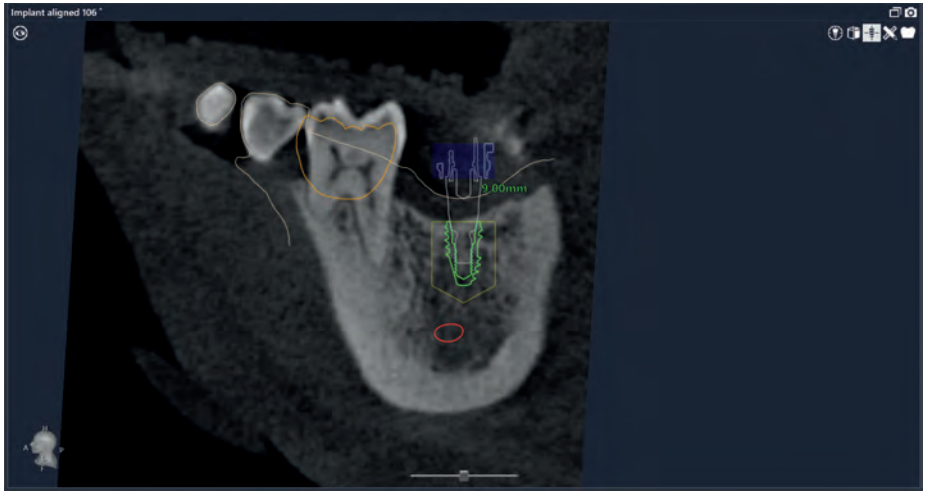


DentiqGuide



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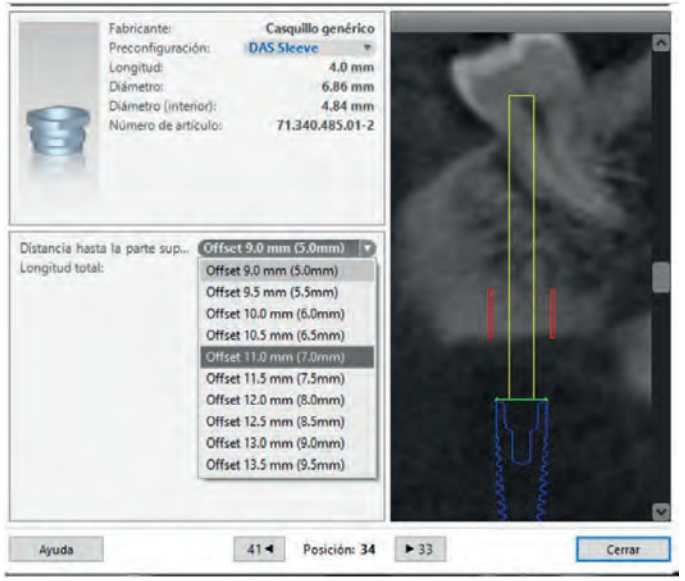

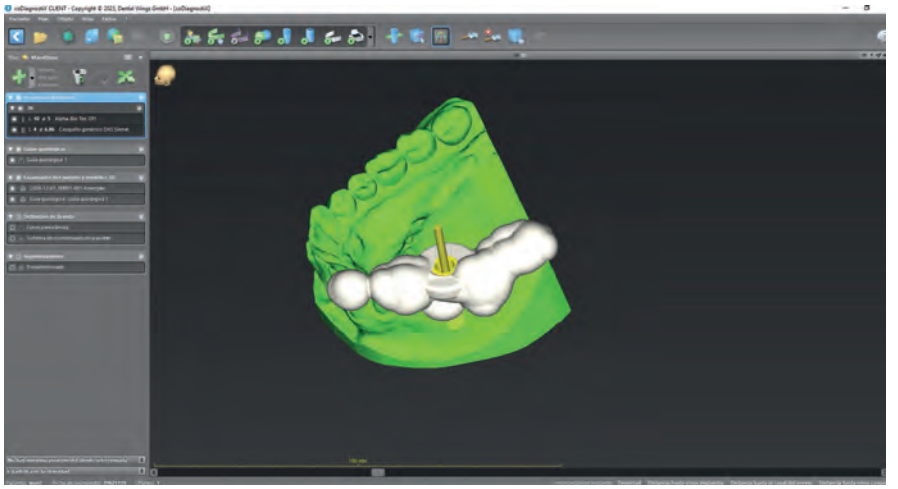

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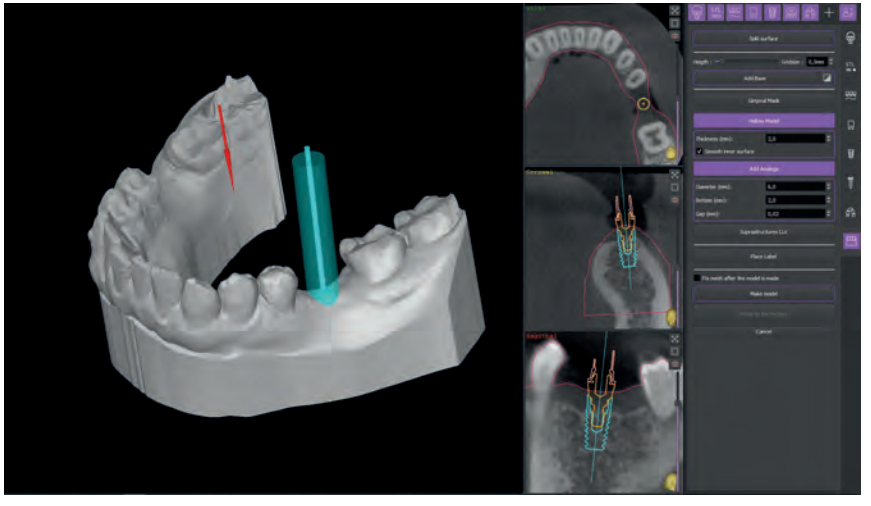
ProDigiDent

ImplaStation



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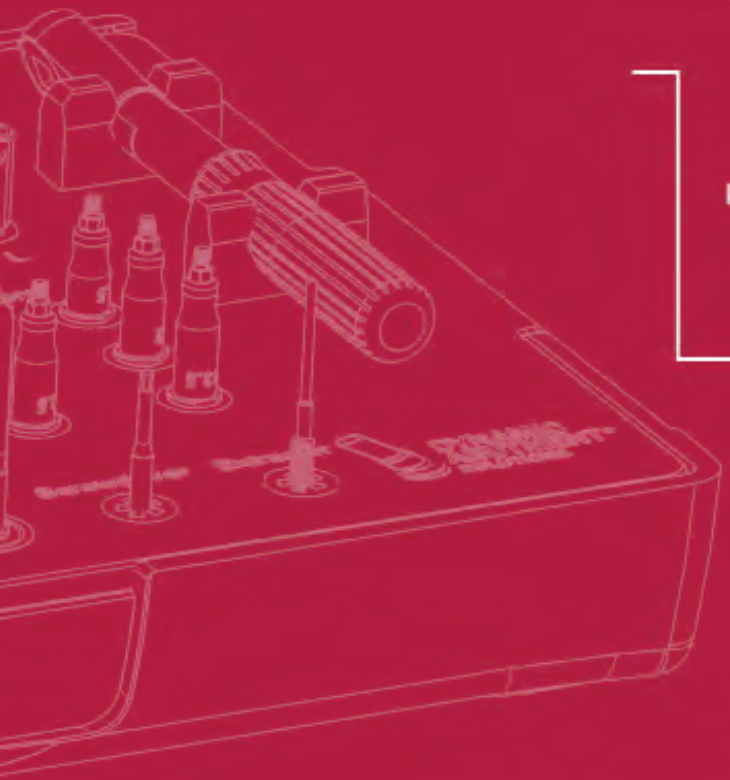

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