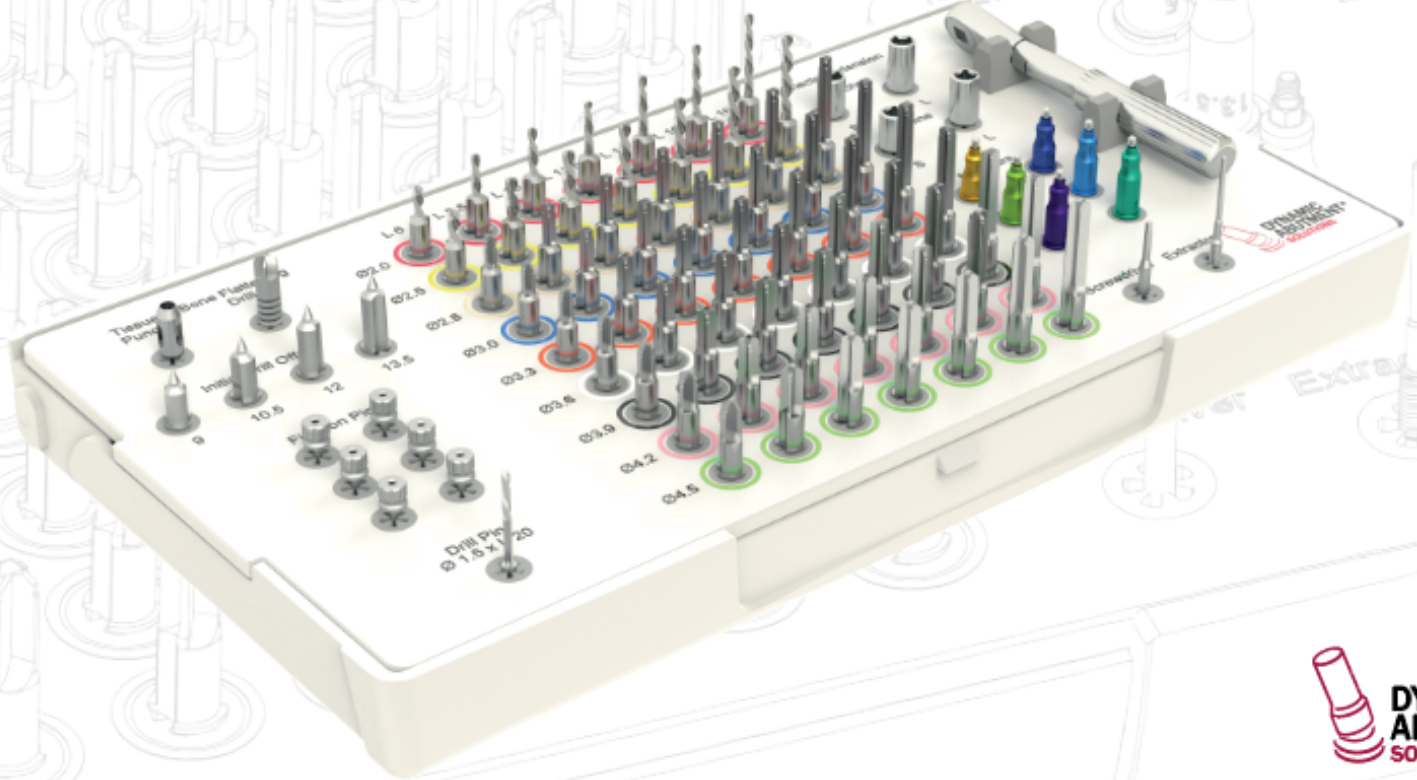


DYNAMIC ABUTMENT SOLUTIONS

# GUIDED | KIT

DASURGICAL

UNIVERSAL SYSTEM





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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.



# INDEX

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**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.



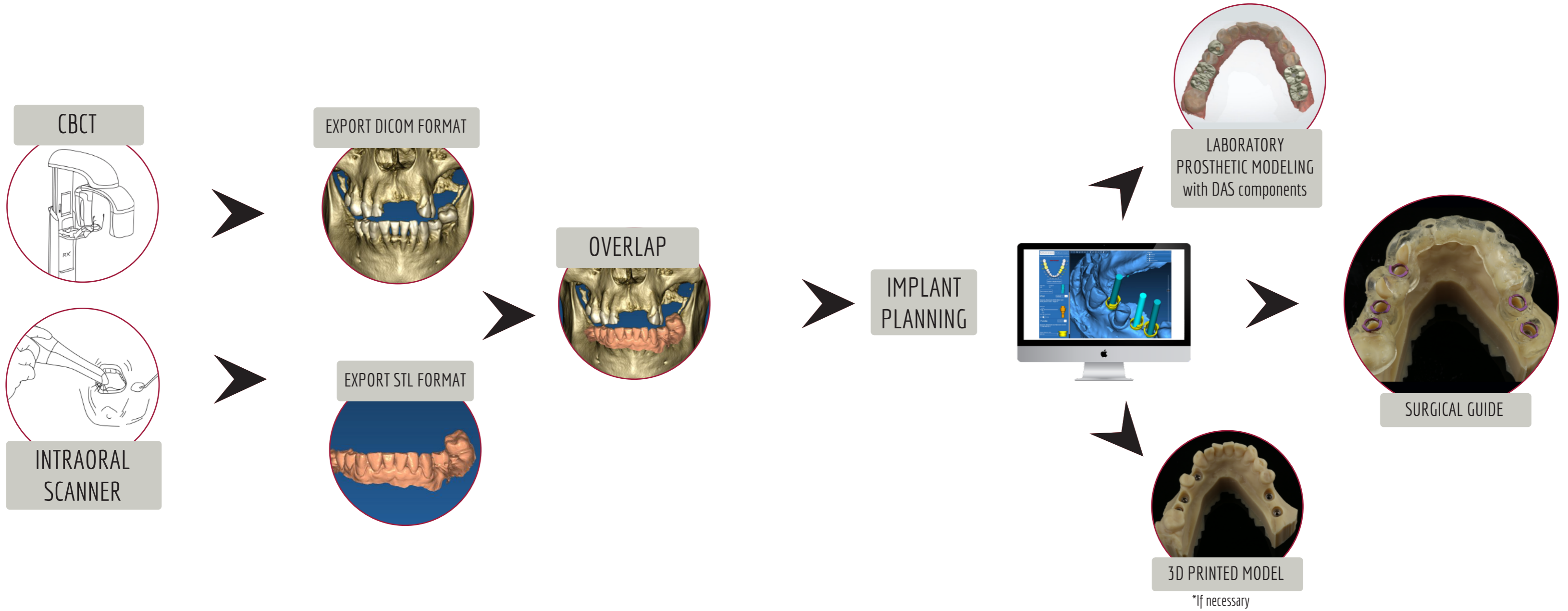
Maximum accuracy.



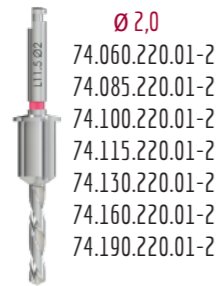
**Full guided workflow**

Relating to Dynamic TiBase and Multi-Unit DAS System.

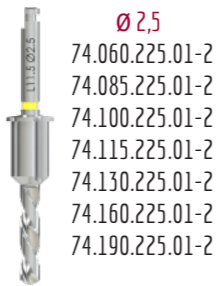
# DAS SURGICAL GUIDE WORKFLOW



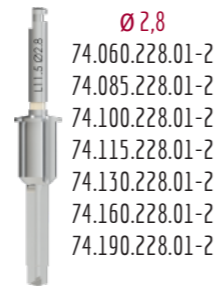
# DAS SURGICAL GUIDE KIT



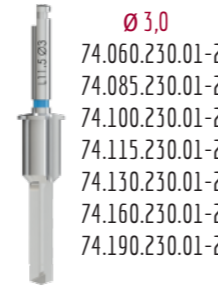
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74.130.220.01-2  
74.160.220.01-2  
74.190.220.01-2



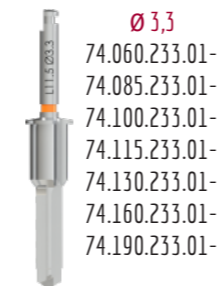
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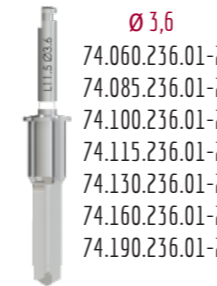
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74.190.228.01-2



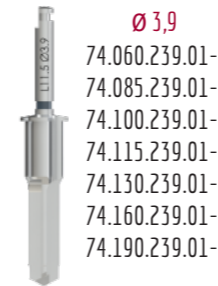
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74.190.230.01-2



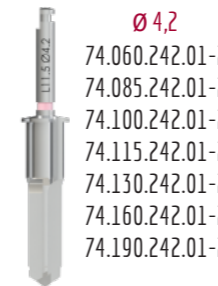
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74.190.233.01-2



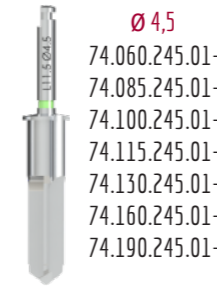
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74.100.236.01-2  
74.115.236.01-2  
74.130.236.01-2  
74.160.236.01-2  
74.190.236.01-2



**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**  
74.060.245.01-2  
74.085.245.01-2  
74.100.245.01-2  
74.115.245.01-2  
74.130.245.01-2  
74.160.245.01-2  
74.190.245.01-2

**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

**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\*

**Extractor**  
79.300.001.02-2

**Screwdriver Hex. 1,2**  
43.601.103.02-2

**Guided DAS Surgical Kit**  
79.900.005.01-2

**Labels on guide:** L 6, L 8.5, L 10, L 11.5, L 13, L 16, L 19, Connector Extension, Ratchet, Machine, Mounters, Screwdriver, Extractor, DYNAMIC ABUTMENT SOLUTIONS

**Drill Pin** Ø 1.5 x L 20

**Initial Drill Offset** 9, 10.5, 12, 13.5

**Drill sizes:** Ø 2.0, Ø 2.5, Ø 2.8, Ø 3.0, Ø 3.3, Ø 3.6, Ø 3.9, Ø 4.2, Ø 4.5



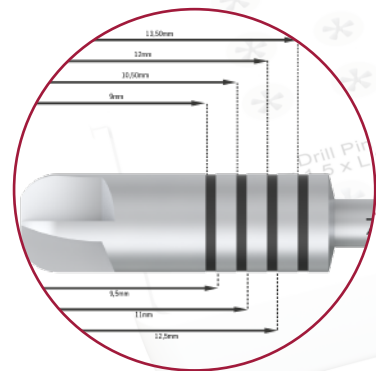
### Tissue Punch 74.120.230.01-2

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

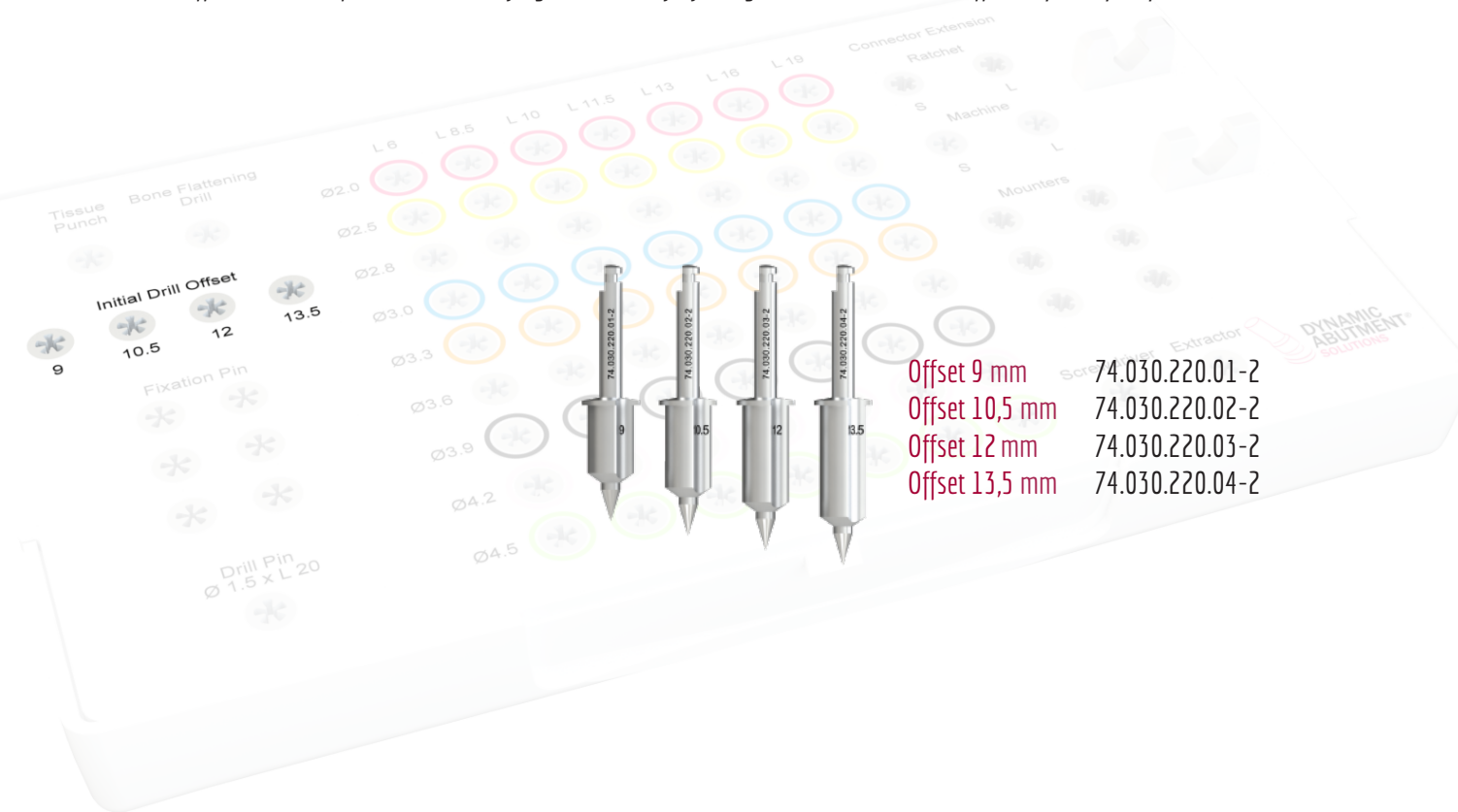
The bone flattening Drill is used to flatten the surface of the alveolar crest, and the remaining soft tissue on the alveolar crest is removed after using the tissue punch.



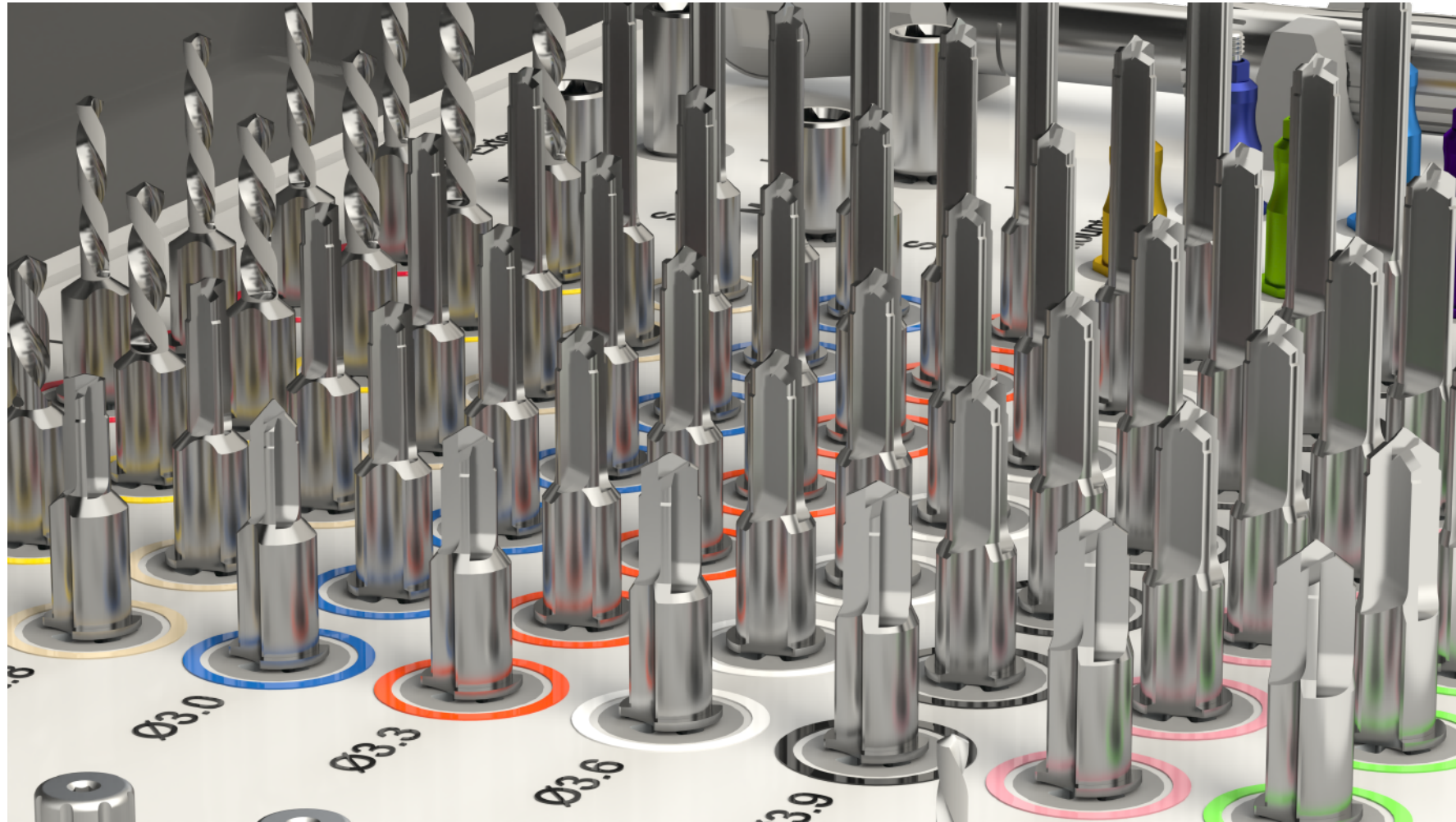
Black stripes indicate the offset.

### 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

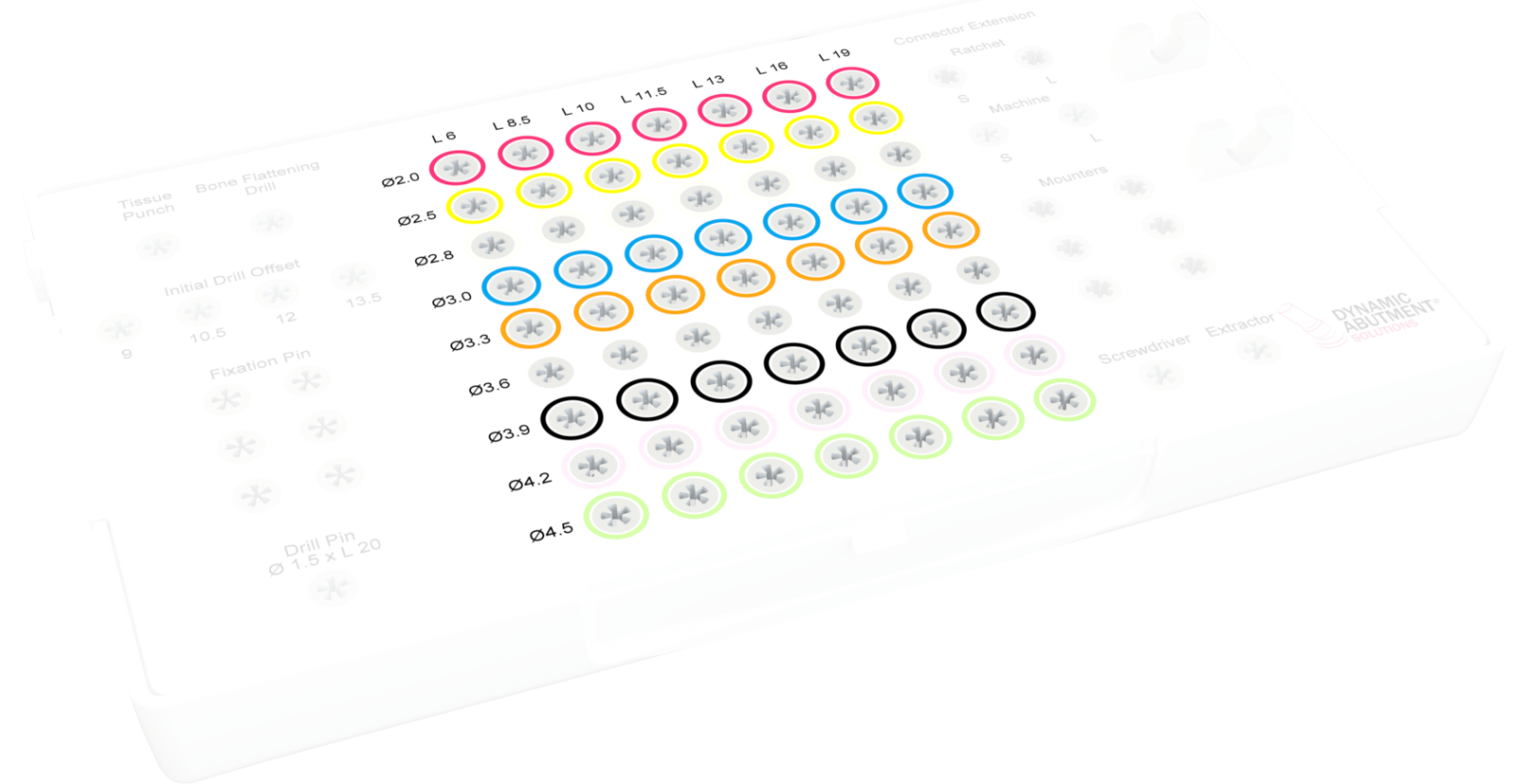


## Drills

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)



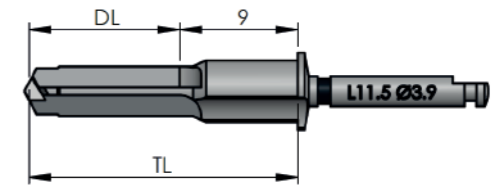


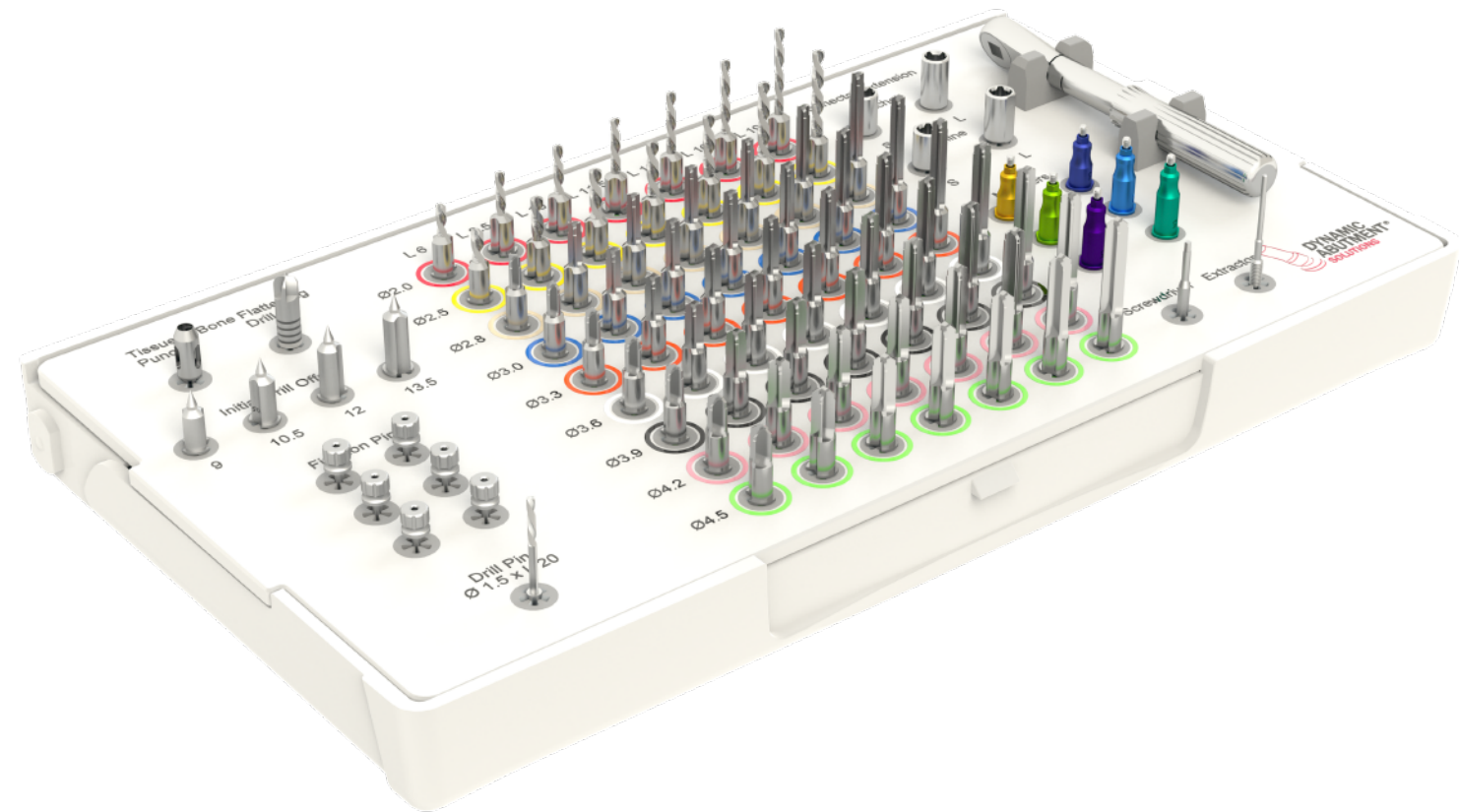


\*xxx: drill length (DL)

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
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
	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
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
	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
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
	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
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



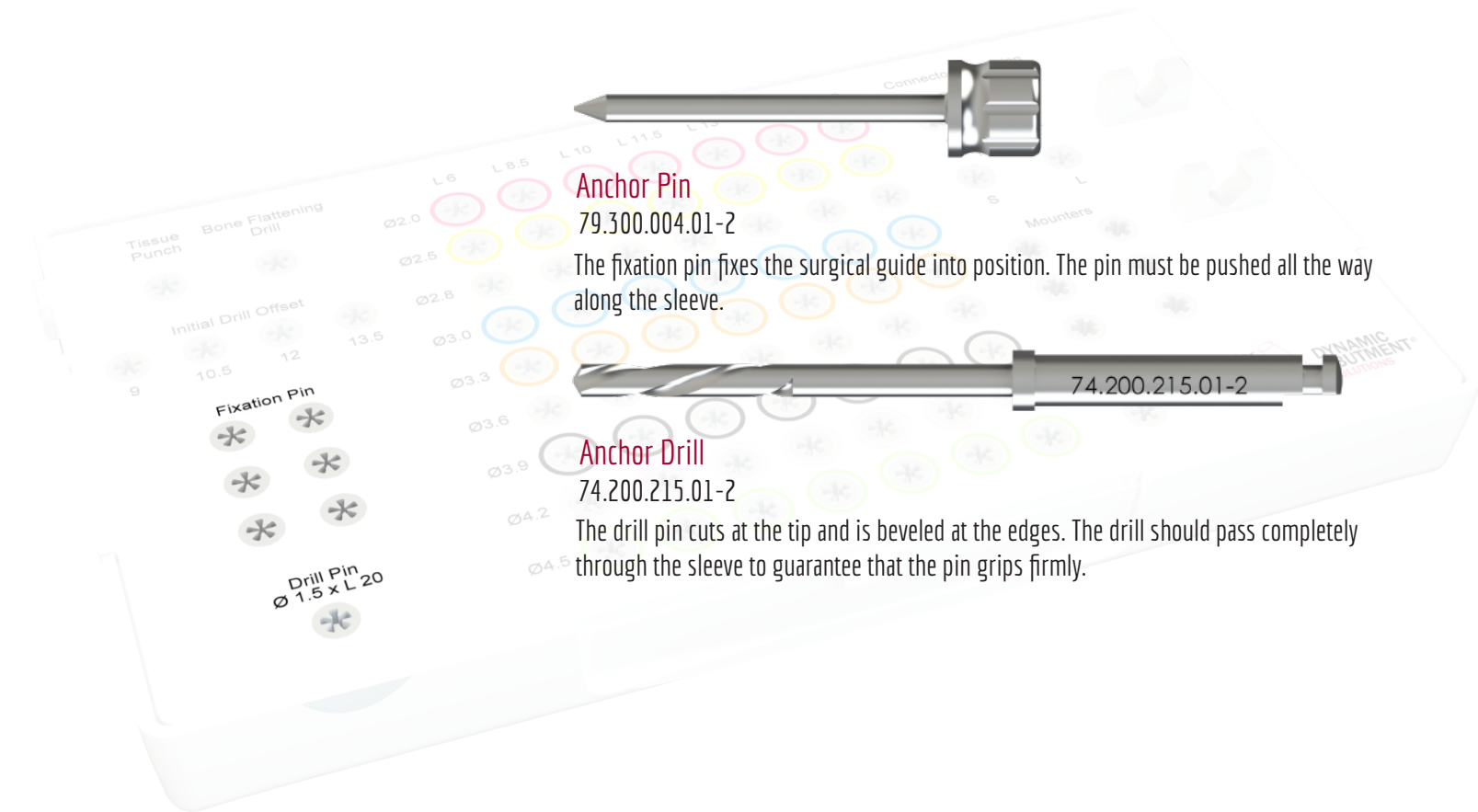


# GUIDED | KIT

DASURGICAL

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  $\varnothing 1,5\text{mm}$  with length 20mm.

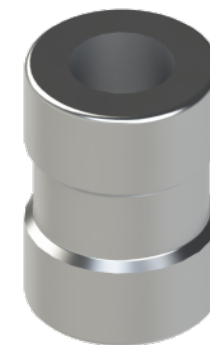


**Anchor Pin**

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  $\varnothing 1,5\text{ mm}$  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.



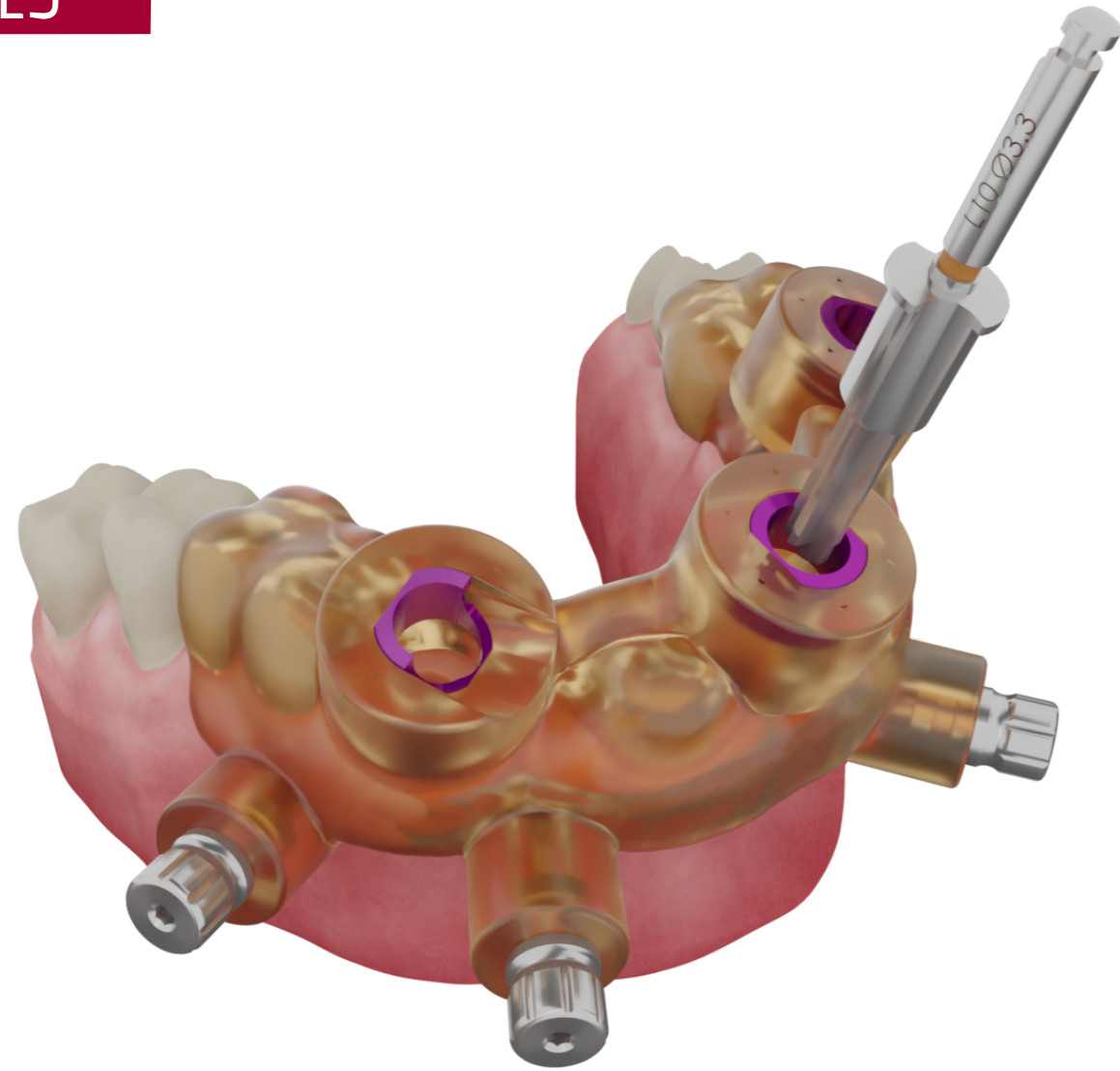
**Anchor Pin**

74.200.215.01-2

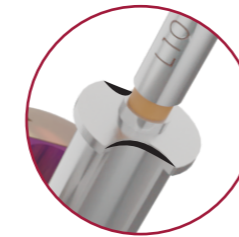
The fixation drill pins cuts at the tip and is beveled at the edges. The drill should pass completely through the sleeve to guarantee that the pin grips firmly.

One single drill with L20mm and  $\varnothing 1,5\text{mm}$ .

# DRILLS



The main configuration of the drills:  
All drills are guided



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



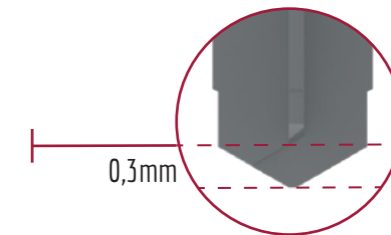
**Identification mark**  
Laser mark with length, diameter and reference.

**Identification colour**  
Marked in colour to identify the diameter

Stopper area with the sleeve

**Inactive zone**  
Inactive zone of  $\varnothing$  4.8mm

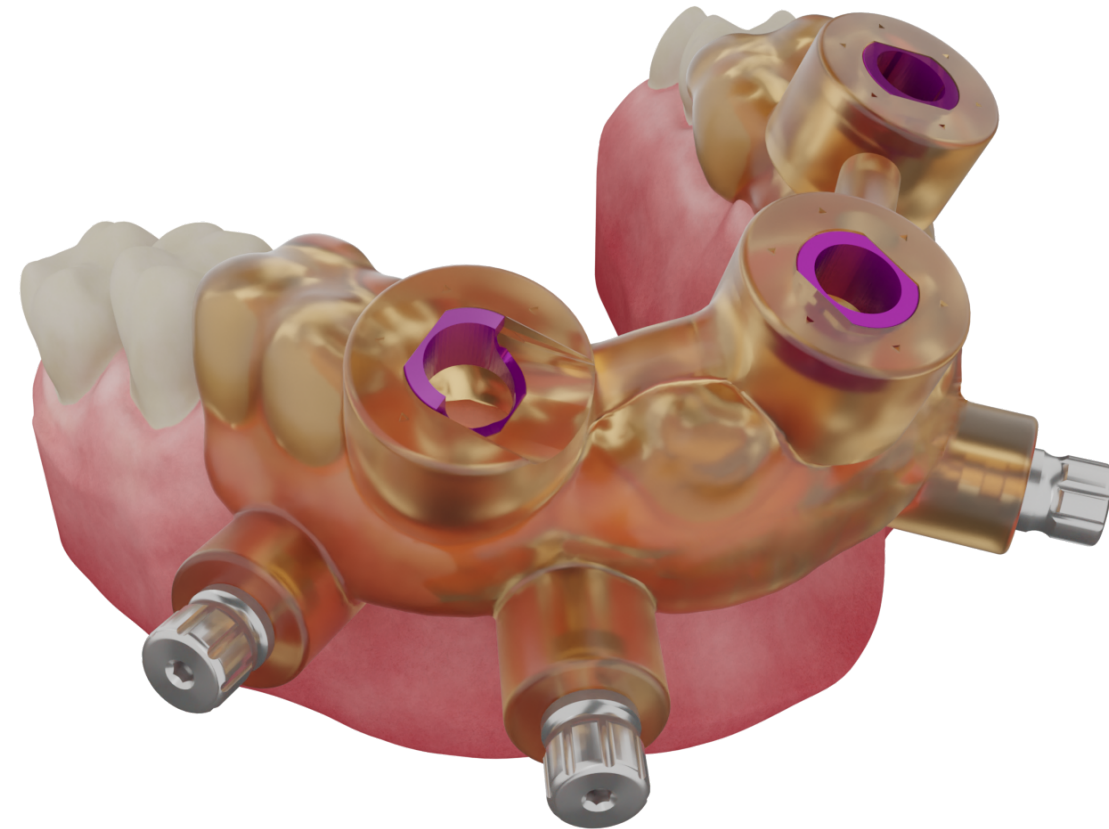
**Transition zone**  
Transition zone between active and inactive part to avoid contact with bone.



0,3mm

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

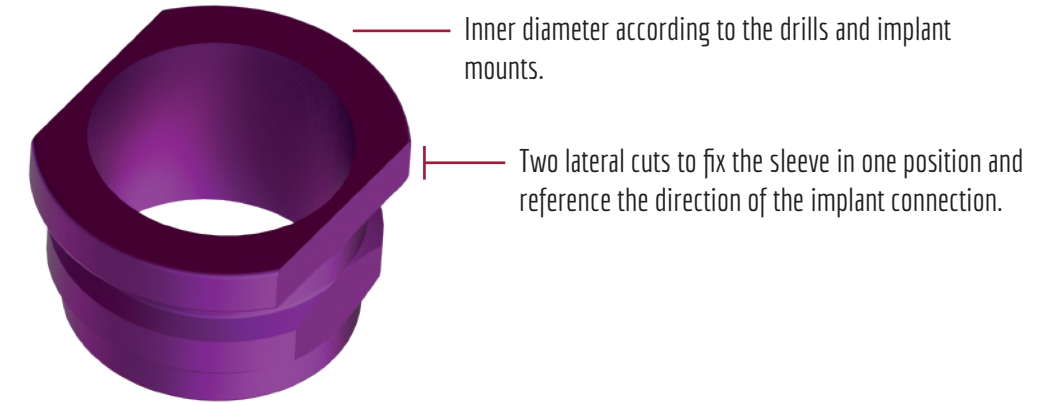


One single sleeve for all implant systems.

## DAS Sleeve\*

71.340.485.01-2

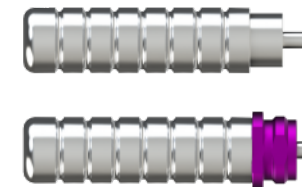
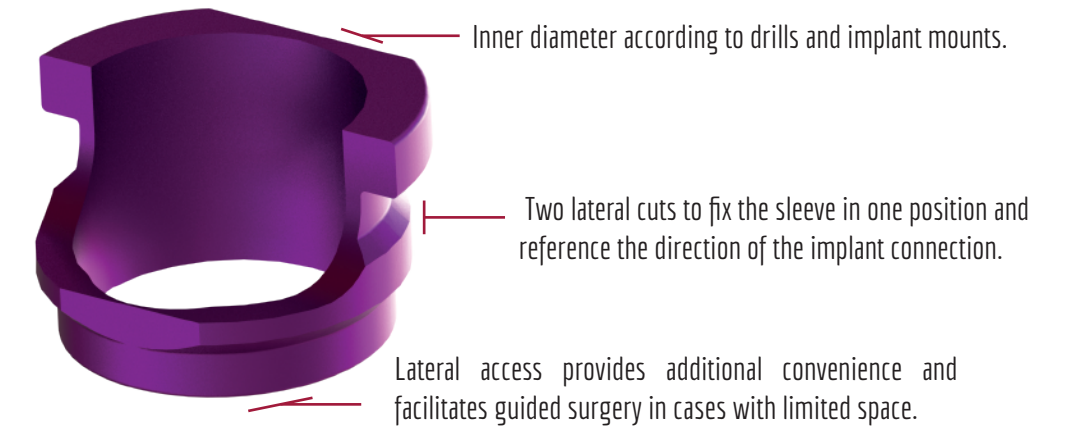
Once fixed to the surgical guide, it allows the guided drilling sequence and the placement of the implant in the planned position.



## DAS Cut Sleeve\*

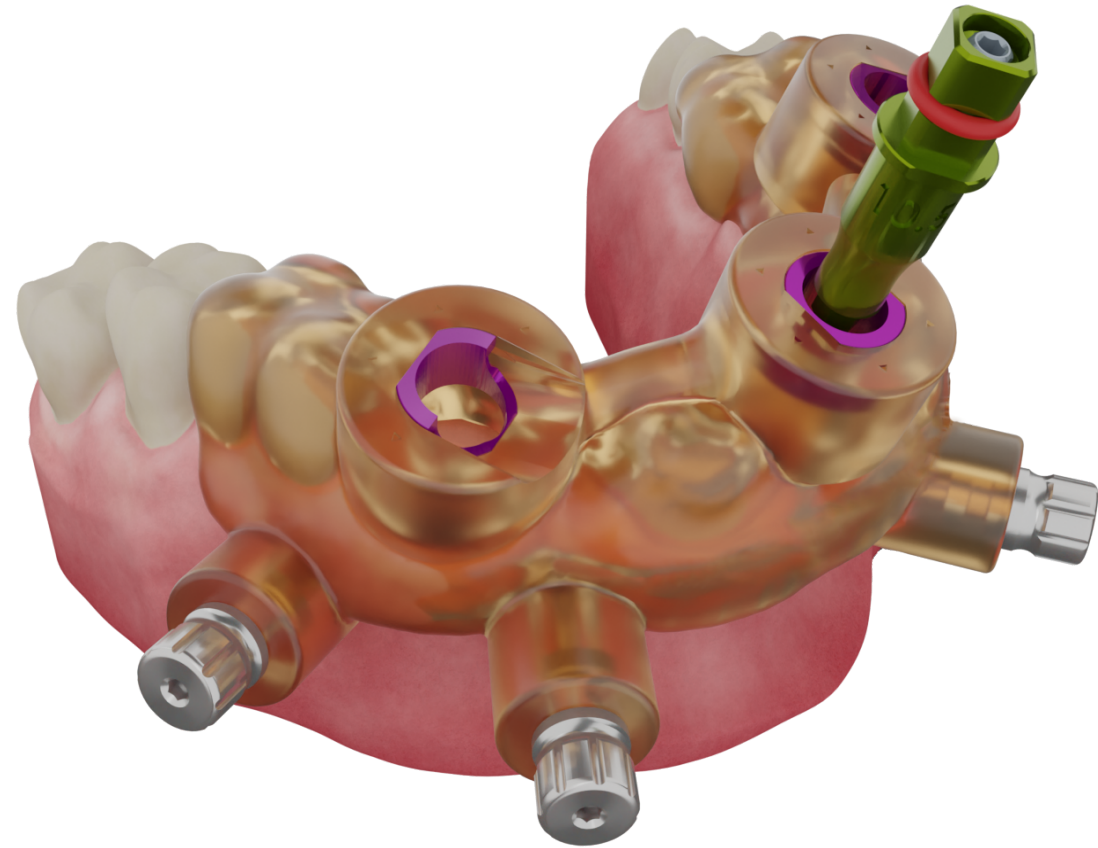
71.340.485.02-2

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.



\*Use the Dynamic Abutment Solution Sleeve Gripper (79.300.003.01-2) to insert the sleeve into the surgical guide.

# IMPLANT MOUNT



## Inner Thread

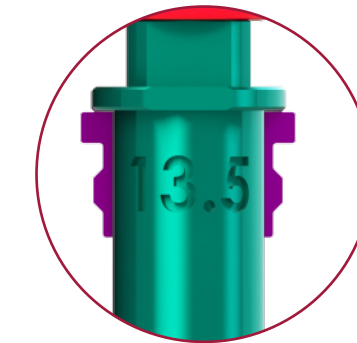
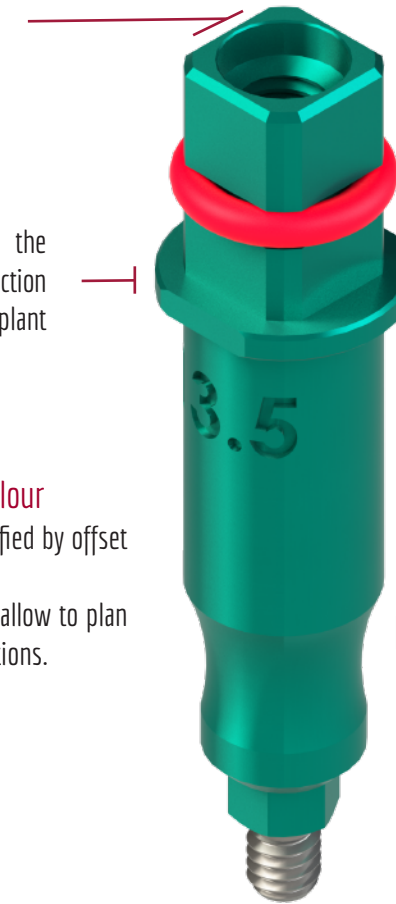
Internal thread to allow the use of an extractor if required.

## 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

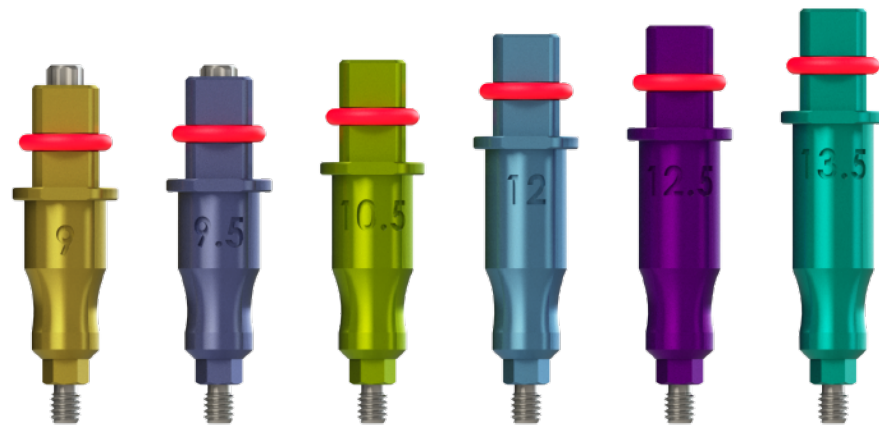
Concave area to avoid contact with bone.

### 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.

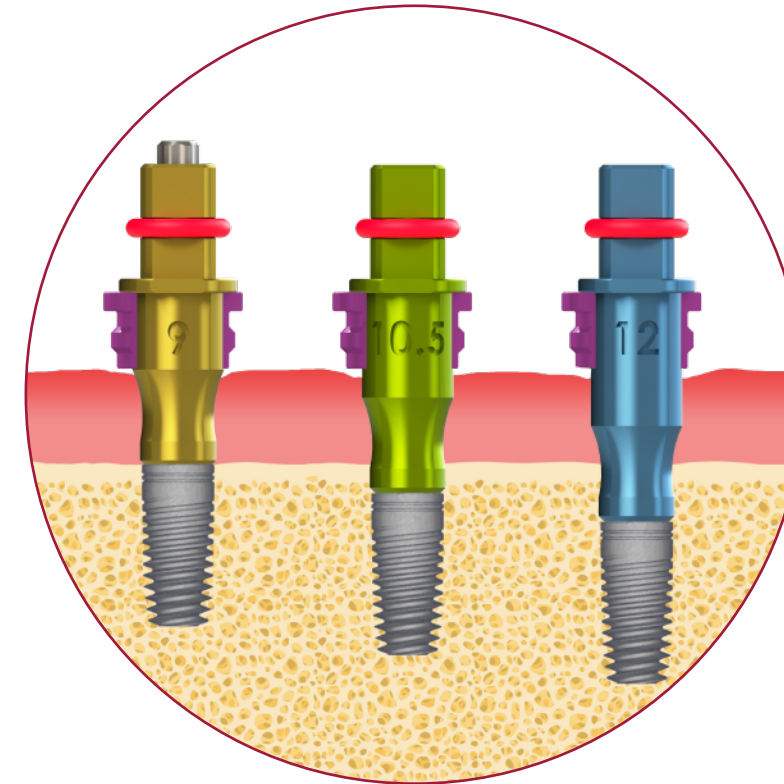


\*Example: Alphabio Internal Hex

### Implant mount colours according to offset

9
9,5
10
10,5
11
11,5
12
12,5
13
13,5

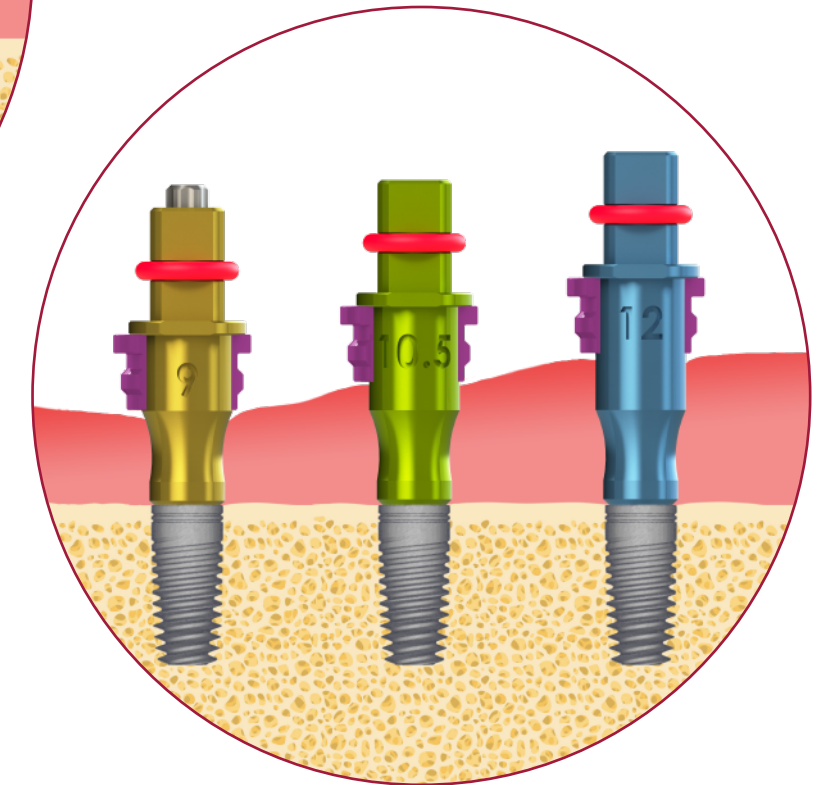
The implant mount is anodised according to the offset to facilitate its identification in surgery.



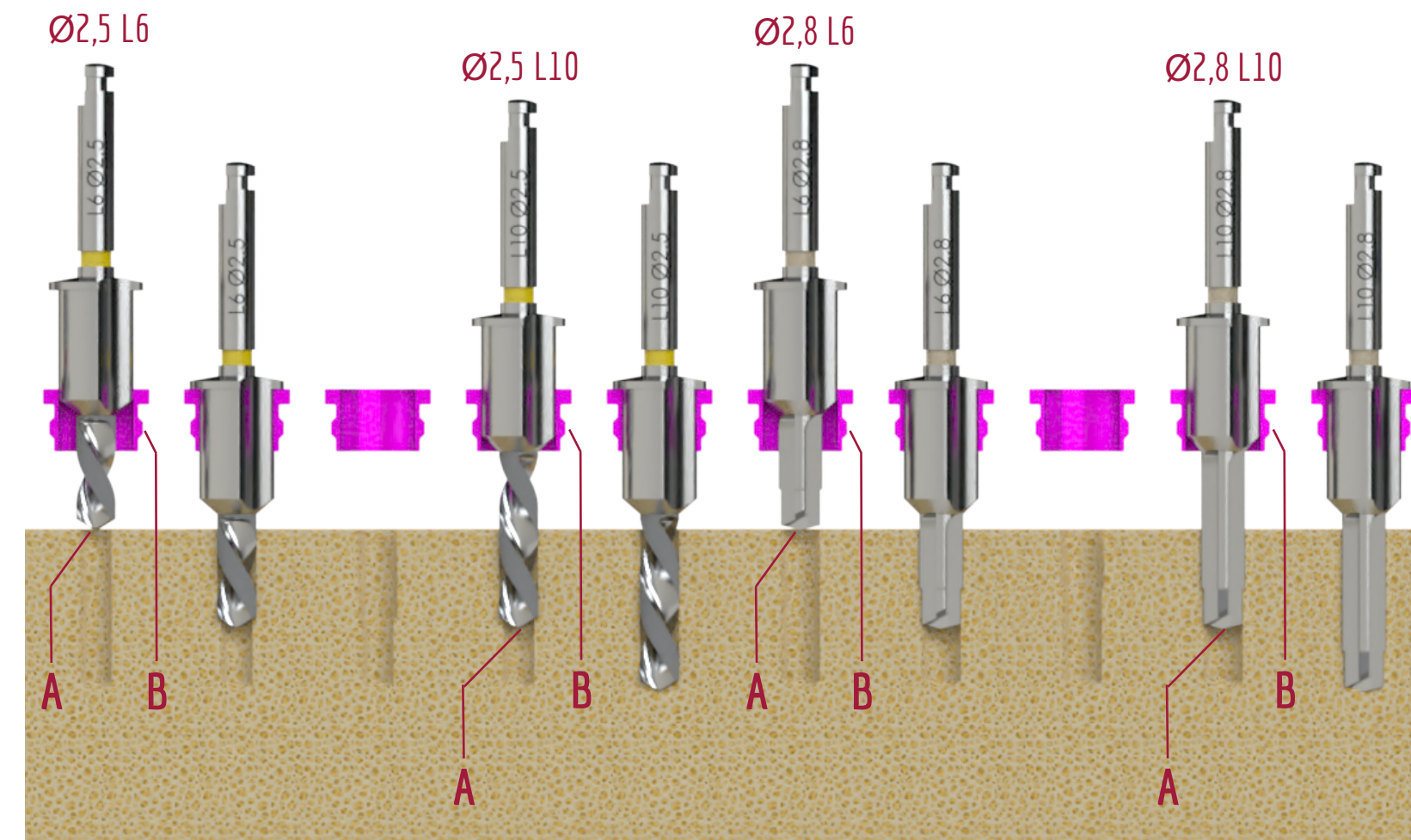
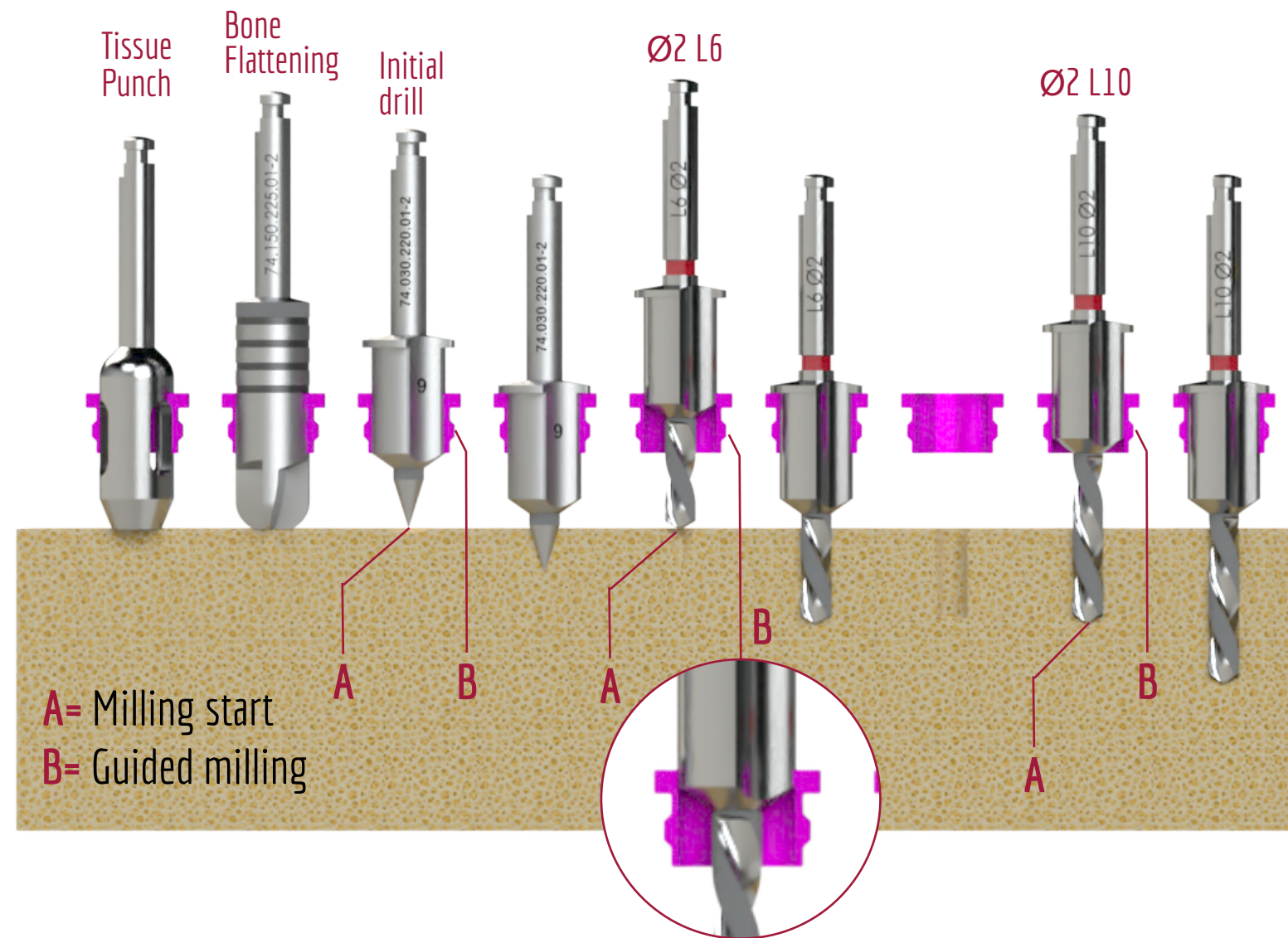
### Available different offsets

(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.



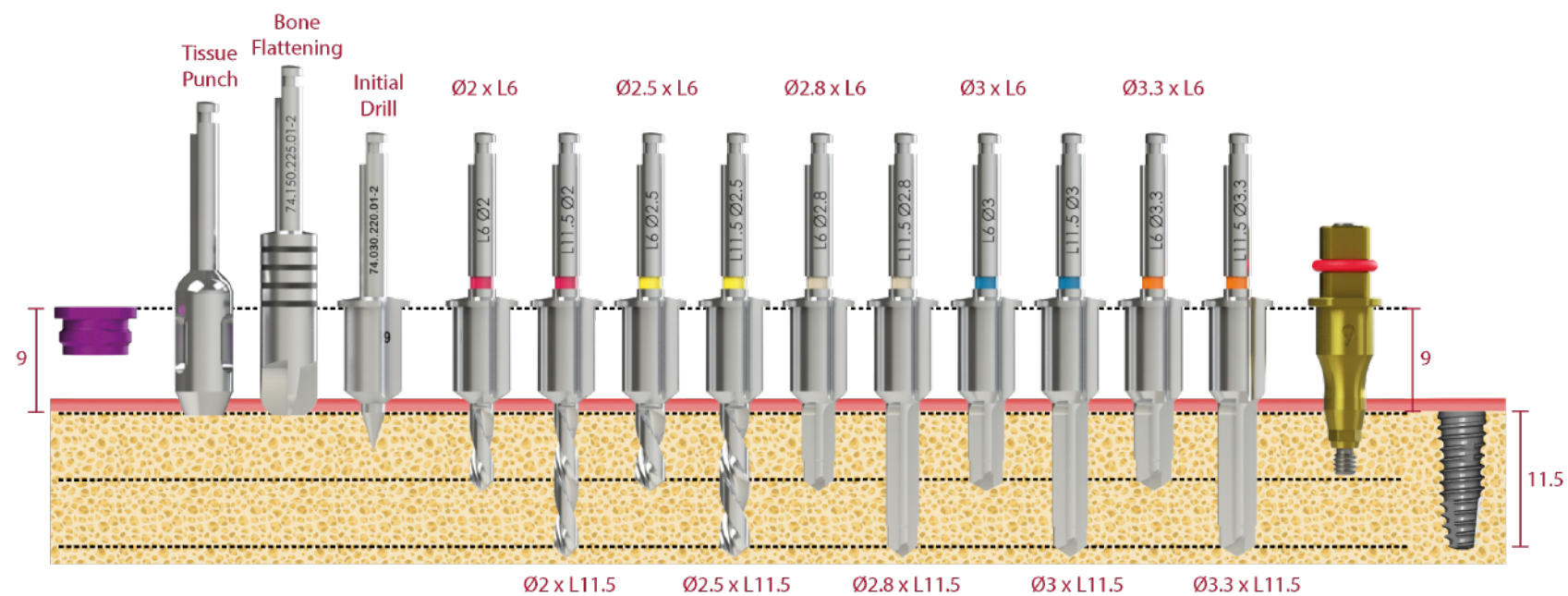
# 100% GUIDED SURGERY PROCESS





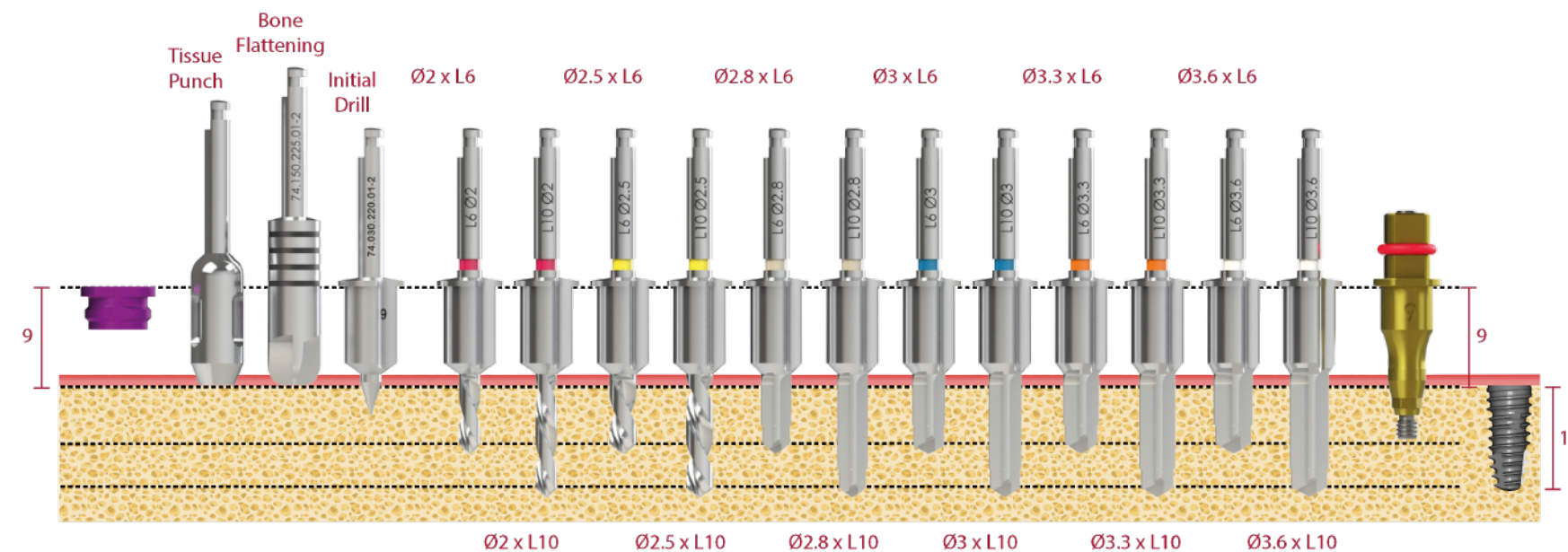
# DRILL SEQUENCE EXAMPLE

## 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

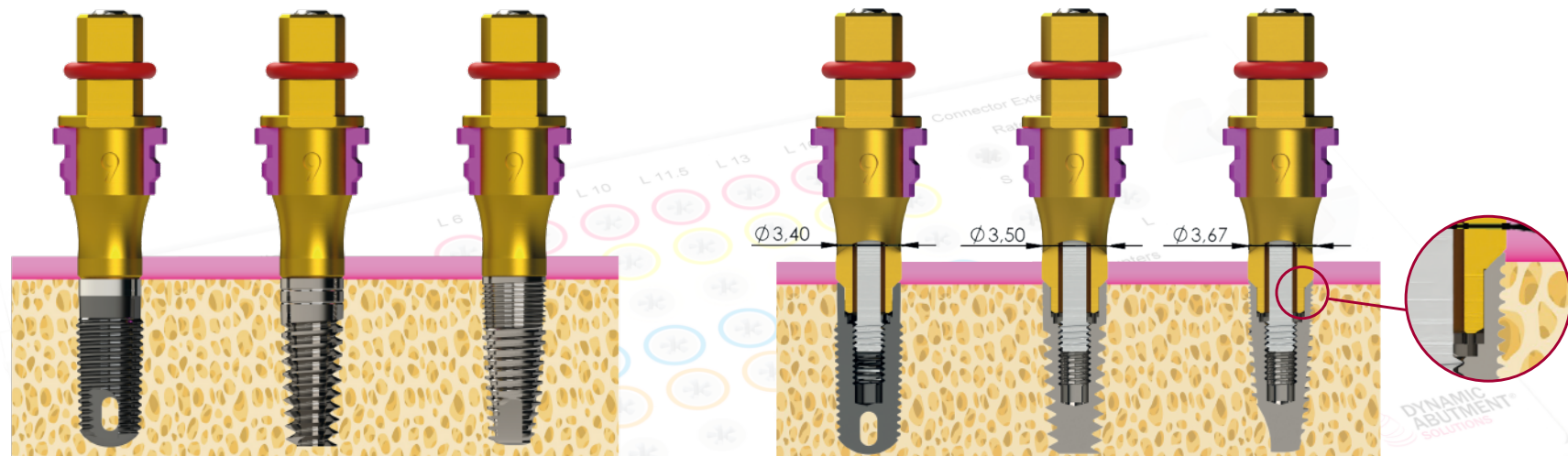
## Drills sequence for Bone Level implant Ø4.0 x L10



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

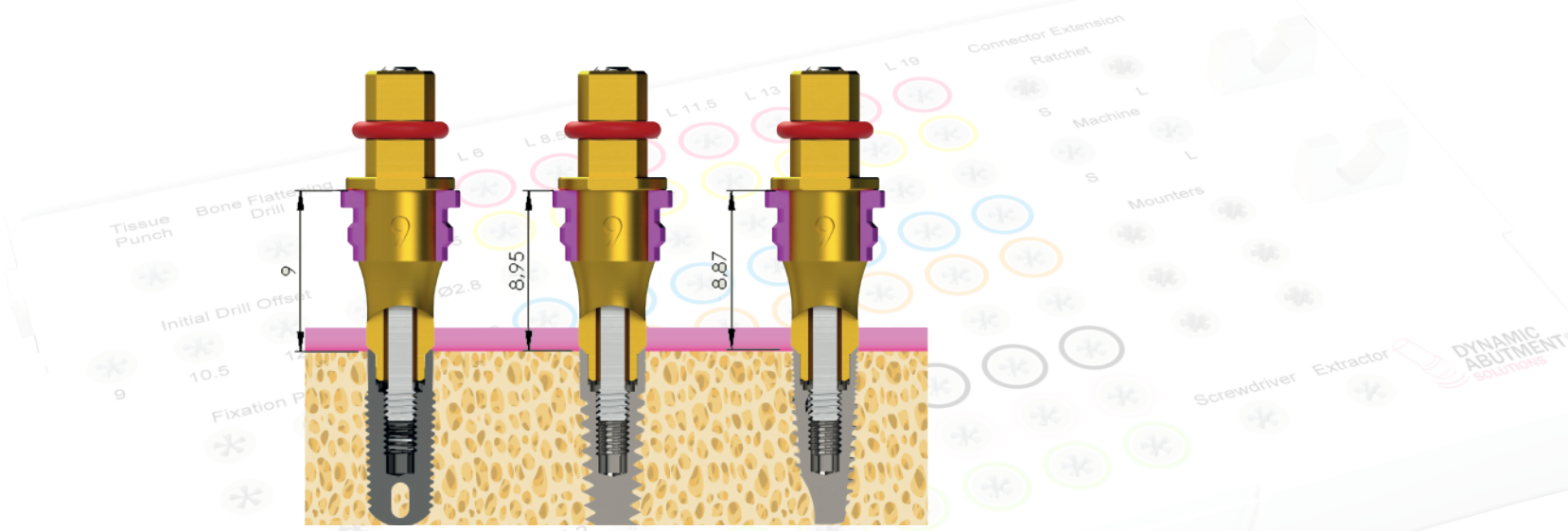
- Same internal hexagon
- Same connection

ZIMMER  
ALPHABIO  
CORTEX

- Closing of each implant mount is different

Offset 9mm → ZIMMER → OK  
Planification  
Final execution

The same mounter is simulated for each implant.



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

Same implant mount for — ALPHABIO — Error  
CORTEX

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

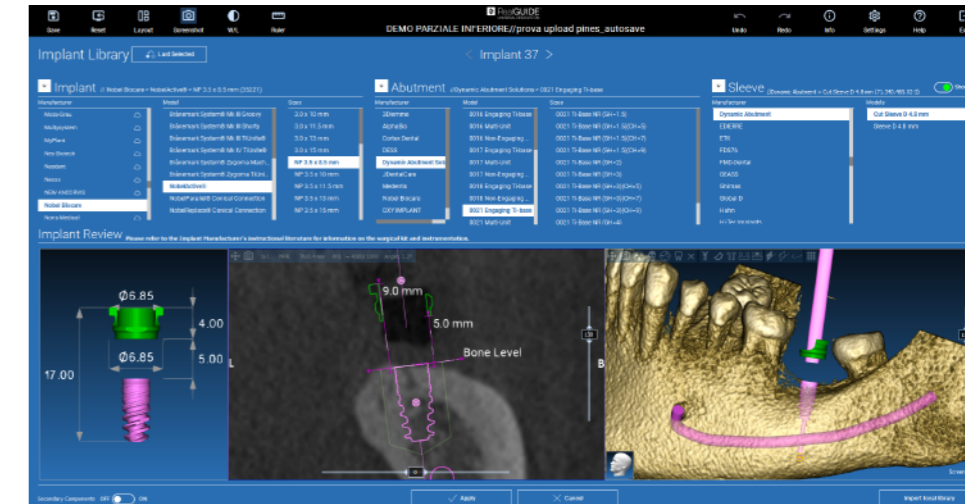
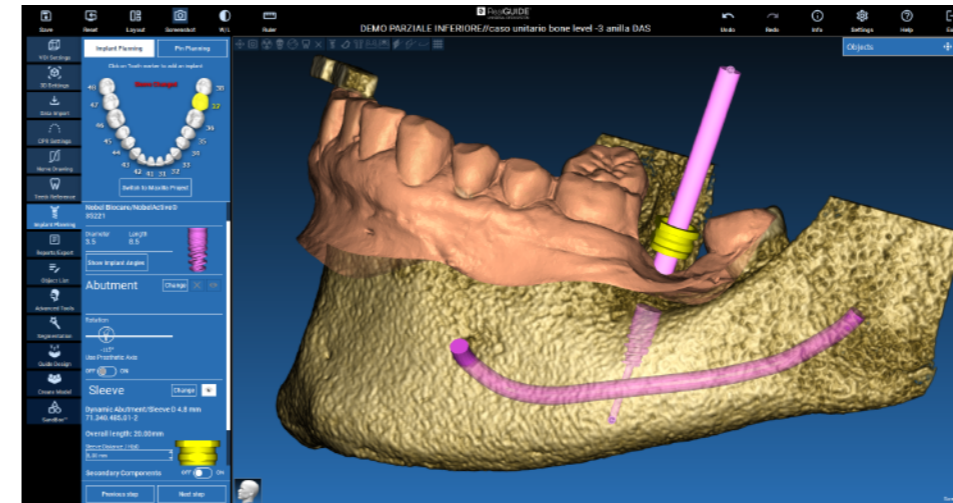
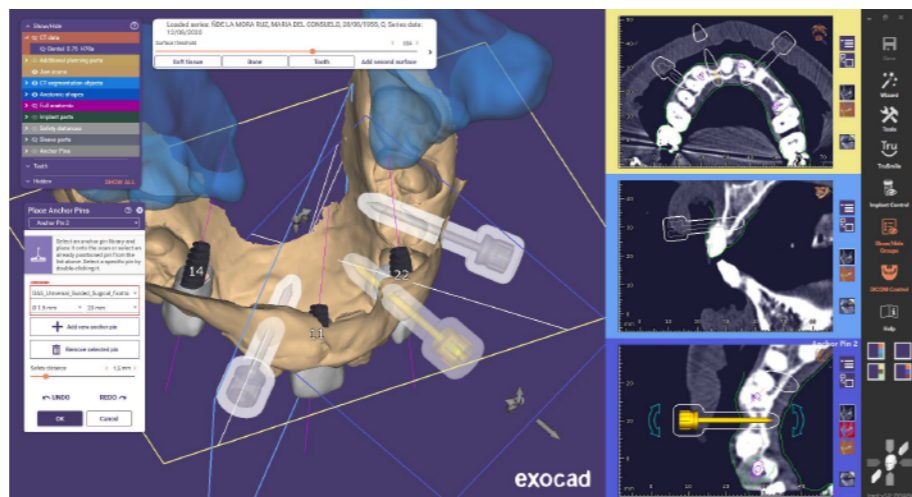
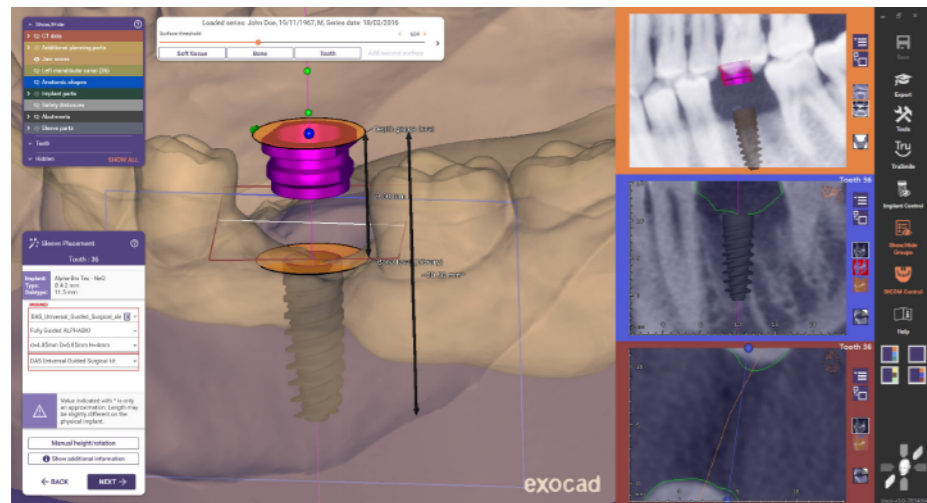
This tool is to be used to separate the implant mount in cases when it becomes lodged using the following instructions.

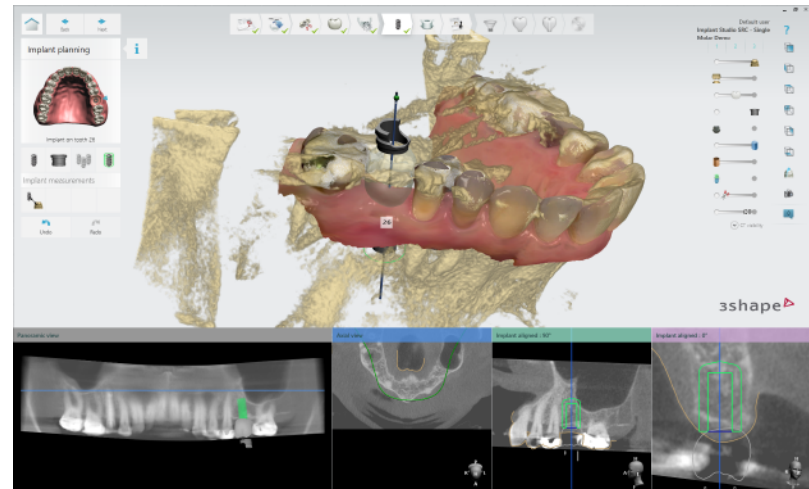
Unscrew the implant mount screw and remove.

Screw the extractor into the implant mount in order to release the implant mount from the implant.

# LIBRARIES

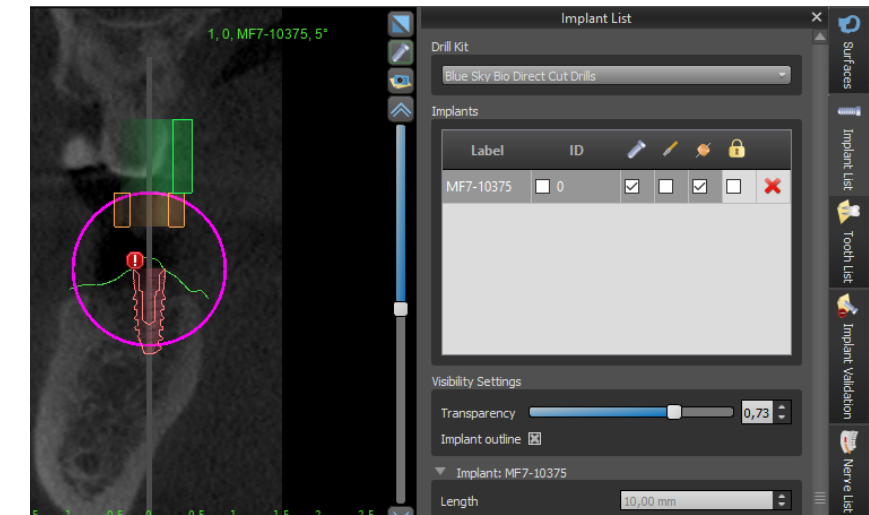
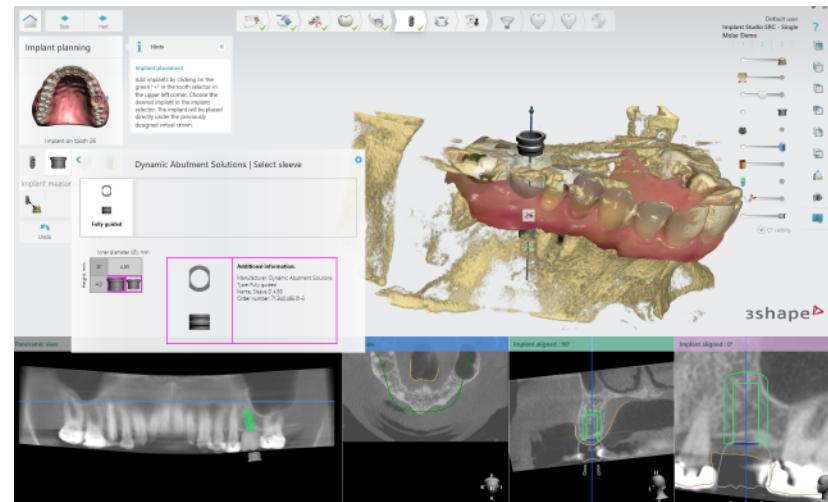
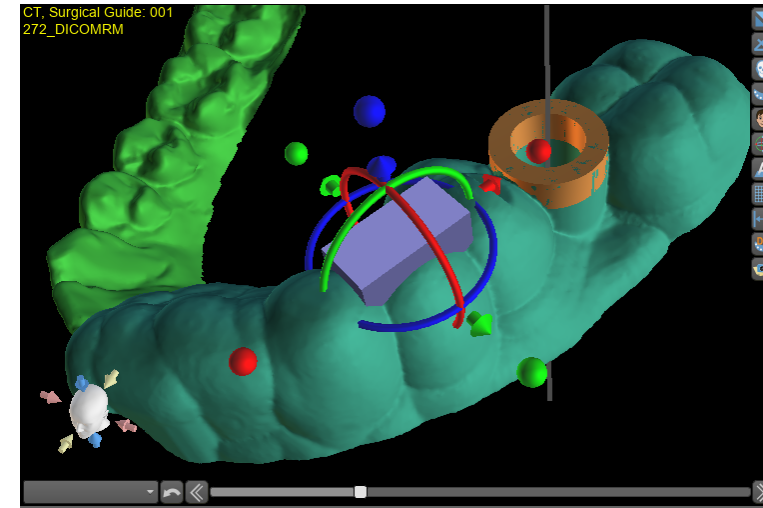
## exoplan

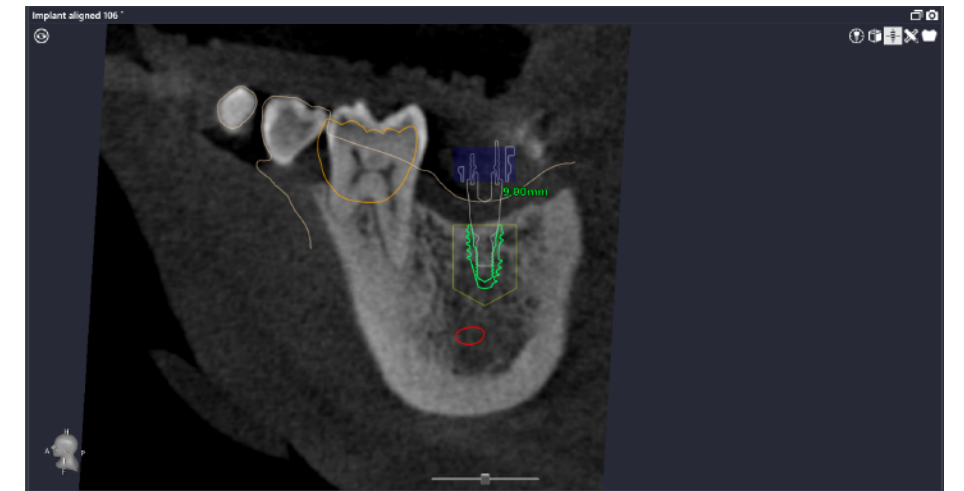
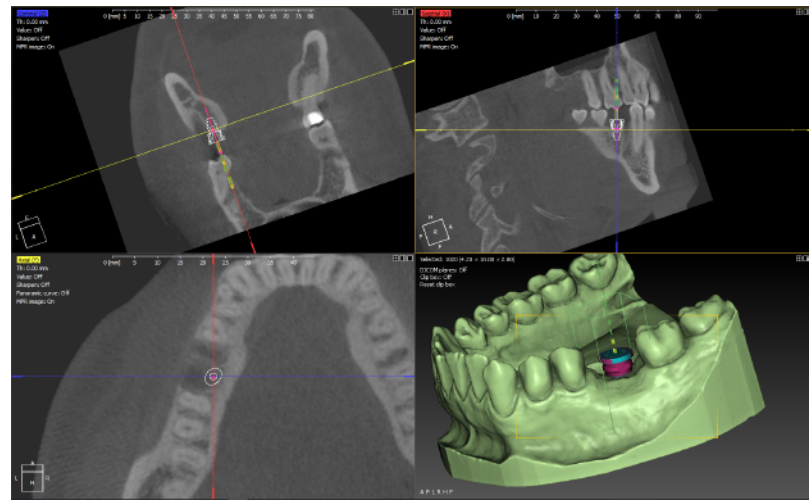
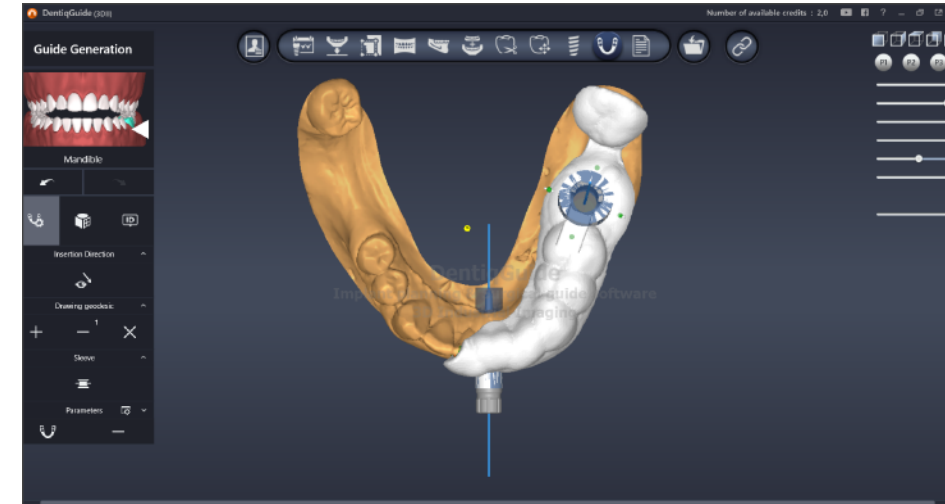
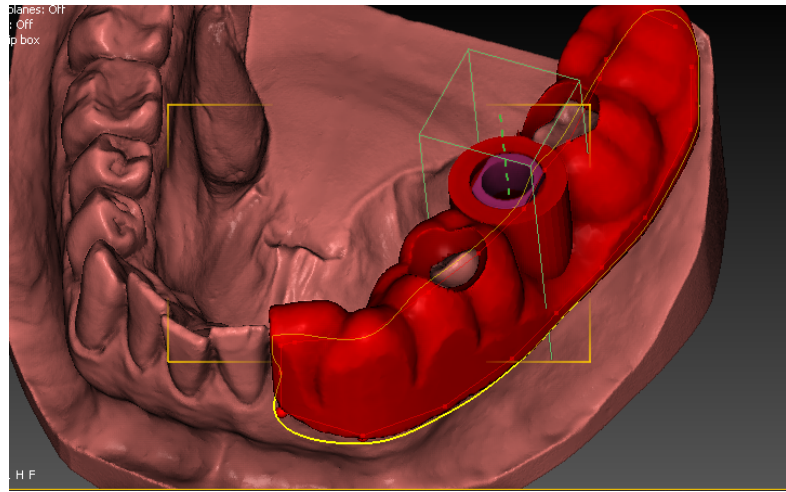


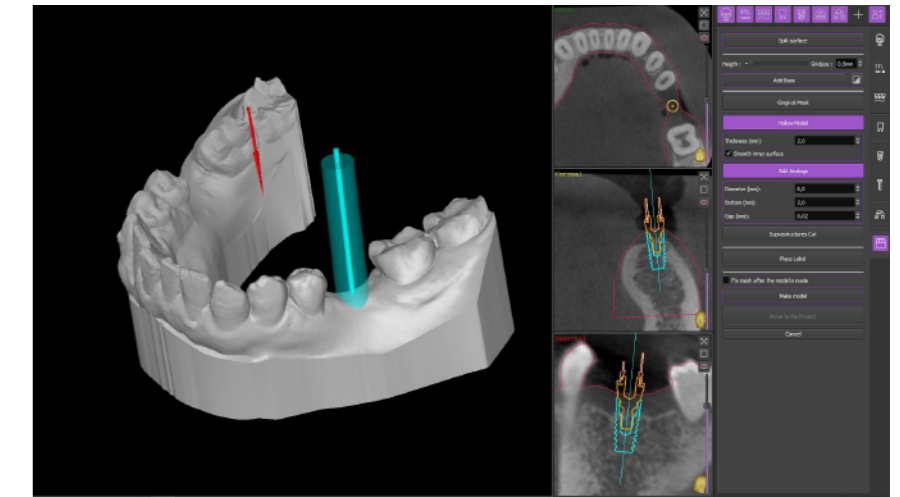
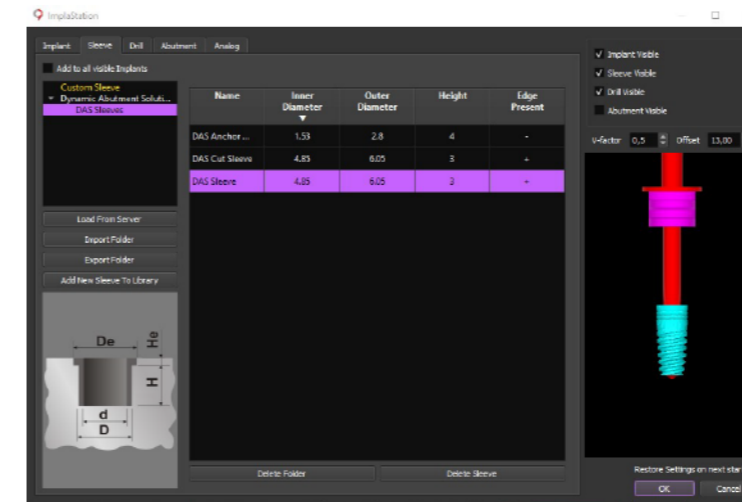
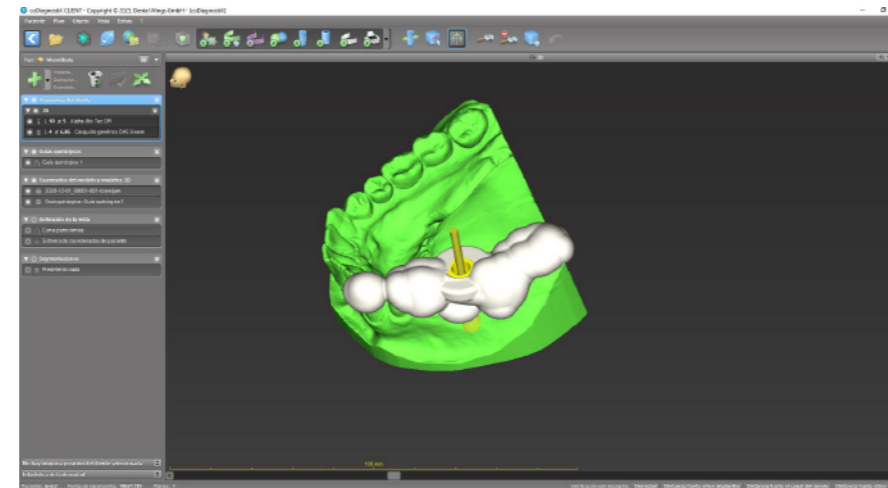
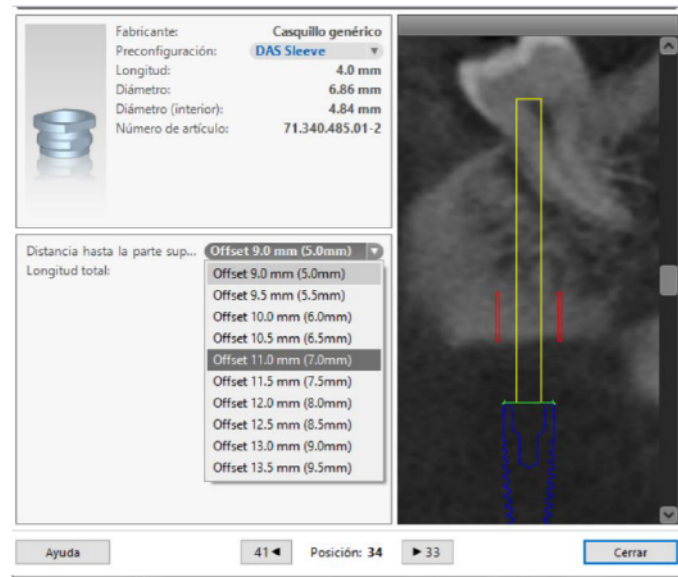


# 3shape

## Implant Studio









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