

The Abrahami Drill Guide Kit has been designed to enable the dental surgeon to accurately locate and drill the holes of two or more consecutive implants with optimal spacing, angulation and parallelism.

Optimal Spacing

Permits the surgeon to locate the holes for the planned implants with the desired inter-implant distance.

Optimal Angulation

Enables the surgeon to drill in the most advantageous bucco-lingual angle possible, within anatomic limits.

Optimal Parallelism

Guides and ensures complete vertical parallelism between the implants.

The Abrahami Drill Guide Kit consists of 4 parts:

The central block

It is inserted into the drilled pilot hole and supports the extension arm.

There are 4 different blocks:

Short and thin:
10mm length, 2mm diameter

Short and wide:
10mm length, 2.8mm diameter

Long and thin:
16mm length, 2mm diameter

Long and wide:
16mm length, 2.8mm diameter

The stabilization system

It is located within the top of the block and consists of a screw (top) and a spring-loaded ball (inside). It allows the extension pin to be graduate stabilized at the desired length and inclination.

The extension arms

It permits variable bucco-lingual inclinations and mesio-distal locations relative to the central block. In its free end are 2 holes for 2mm and 2.8mm drills in perpendicular planes.

There are 3 different extension arms:

Short 6 to 8 mm from the centerline of the central block to the holes in the free end of the extension arm (13mm)

Medium 9 to 11 mm from the centerline of the central block to the holes in the free end of the extension arm (16mm)

Long 12 to 14 mm from the centerline of the central block to the holes in the free end of the extension arm (19mm)

Paralleling pins

These are dual diameter pins where half of their length is 2mm and half is 2.8mm. They enable the surgeon to visualize the implant positions and angulations.

Instructions for use

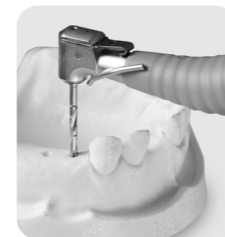


Fig. 1

1.

Drill a 2mm pilot hole at the location of the first implant.



Fig. 2

2.

Insert the paralleling pin and check its position. Confirm with a radiograph if necessary.

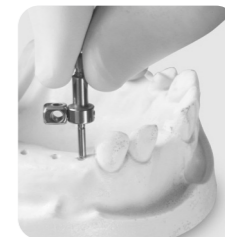


Fig. 3

3.

Take one of the 2mm diameter central blocks and an extension arm appropriate to the desired distance between the implants. Assemble them with the 2mm hole in a vertical position. Place the central block in the drilled pilot hole.



Fig. 4

4.

Put the drill through the 2mm hole in the free end of the extension arm. It can be moved in both bucco-lingual and mesio-distal directions. The extension arm can be stabilized with the screw located on the central block. Some freedom of movement should be retained while drilling. Drill the second 2mm pilot hole. Repeat for each consecutive implant.

Instructions for use (continuation)

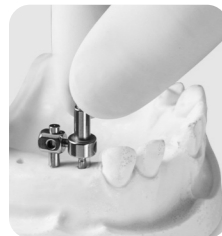


Fig. 5

5.

Rotate the end of the extension arm 90 degrees so that the 2.8mm hole is vertical. Place the 2/2.8mm paralleling pin through the extension arm and into the last pilot hole. Stabilize it with the screw on top.

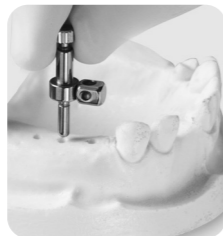


Fig. 7

7.

Take one of the 2.8mm diameter central blocks. Transfer the extension arm from the previous central block, maintaining the vertical orientation of the 2.8mm hole. Repeat the procedures in Fig. 5 until all of the previously drilled pilot holes have been widened to 2.8mm.

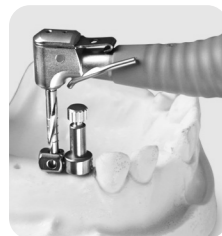


Fig. 6

6.

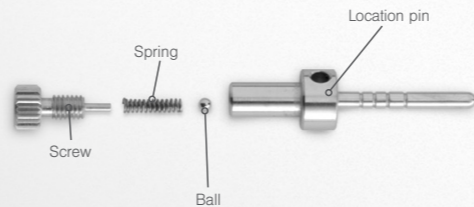
Widen the pilot hole to 2.8mm. When the hole is widened to 2.8mm it will still be parallel to the previous pilot holes.



Fig. 8

8.

After all the holes have been widened to 2.8 mm, insert the paralleling pins to check their positions. The holes can now be deepened if necessary. 3.3mm implants can now be inserted or the holes created with the Abrahami Drill Guide Kit can be widened to 3.2mm for 3.75mm implants, and up to wider implants.



* Before cleaning, the location pins has to be separated as follows: screws ,springs, balls and pins. Cleaning and drying the parts is essential for the good functioning of the system. This will avoid erosion of the parts.

Instrument Maintenance

Disinfection

- Immerse instruments immediately after use.
- Use approved agents only.
- Observe manufacturer's recommendations regarding concentration / time / material compatibility.

Cleaning

- Remove all residue.
- Use Ultrasound.
- Use anticorrosive cleaning agent.
- Thoroughly rinse cleaning and

- disinfecting agents under running water.
- Use distilled water to prevent water spots.

Drying

- Dry only with:
- Compressed air.
- Hot air.
- Absorbent paper tissue.

Examination

- Perform visual inspection.
- Dispose of damaged instruments.

- Check for:
- Breakouts in blades.
- Bent instruments.
- Corrosion.

Sterilization

- All dental instruments can be sterilized.
- Use only sterile packages.

Storage

- Store in dry, dust-proof area.
- Keep instruments separated from chemicals.

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MIS

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0483 | ISO 9001:2000
ISO 13485:2003

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User Manual Abrahami Drill Guide (US patent no. 5833693)



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