

5. Composition

The composition is included in the materials list; please refer to the catalog or www.dentaurum.com.

6. Safety instructions

Always use only the blue safety key (Fig. 10) supplied to prevent swallowing.

The product should not be used if there is a known allergic reaction to one or more of the material components.

7. Information for single use products

The product is intended for single use only. Reconditioning of a product that has already been used (recycling) and its reuse on a patient is not permitted.

8. Delivery program

Please refer to our Orthodontics catalog for the complete product range of Variety click/Variety click SP screws without retention legs.

9. Quality information

Dentaurum ensures faultless quality of its products. These recommendations are based upon Dentaurum's own experiences. The user is solely responsible for the processing of the products. Responsibility for failures cannot be taken, as Dentaurum has no influence on the processing on site.

10. Explanation of symbols used on the label



Please refer to the label. Additional information can be found at www.dentaurum.com (Explanation of symbols REF 989-313-00).

Information for the doctor/patient

Before the appliance with Variety click/Variety click SP is cemented into position, open the spindle (screw) by making 2–3 quarter turns in the direction of the arrow to test the mobility. Then turn back to the original position. Turn the Variety click/Variety click SP screw only in the direction of the arrow. Opening and closing the screw several times during treatment can cause it to loosen and no longer function properly. The finished Variety click/Variety click SP appliance is cemented into position in the usual manner. Follow the instructions from the cement manufacturer. Following this, the screw is turned four times 90° (quarter turn) using the safety key (REF 611-120-01, Fig. 10) supplied for this purpose. One full 360° turn of the spindle = 0.8 mm expansion.

The patient should turn the screw two times 90° both in the morning and evening (according to your instructions) until the desired expansion is achieved.

Note: Always use only the blue safety key (Fig. 10) supplied to avoid accidental swallowing.

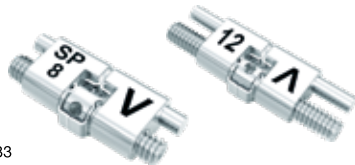
Regular visits are recommended to monitor progress. The Variety click/Variety click SP appliance is secured against unwanted reversing, after the desired degree of expansion is achieved, by fitting a ligature or blocking with acrylic. The appliance should remain in the mouth for approximately 2–3 months for stabilization purposes. A retainer should be worn following removal of the appliance.



Should the user and/or the patient become aware of serious problems arising from the use of the product, it is important that the manufacturer and the competent authority in the country in which the user and/or the patient is resident is informed accordingly.

US

Instructions for use



➔ For more information on our products, please visit www.dentaurum.com

➔ Customer Service: Phone 800 523 3946
info@dentaurum-us.com

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Subject to modifications

11/21

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D
DENTAURUM
USA

Variety  **click**
Variety  **click SP**
Screw without retention legs

Dear customer,

Thank you for choosing a quality product from Dentaaurum.

It is essential to read these instructions carefully and adhere to them to ensure safe, efficient use and ensure that you and your patients gain full benefit.

Instructions for use cannot describe every eventuality and possible application. In case of questions or ideas, please contact your local representative. As our products are regularly upgraded, we recommend that you always carefully read the current Instructions for use supplied with the product and stored in the internet at www.dentaaurum.com, even though you may frequently use the same product.

1. Manufacturer

Dentaaurum GmbH & Co. KG
Turnstr. 31 | 75228 Ispringen | Germany

2. General product description/area of application

Variety click/Variety click SP without retention legs are special universal expansion screws. They have a patented screw locking feature (Fig. 1) which prevents unwanted reversing and can be used in the lower jaw to create space and control tipping of the anterior and posterior teeth as well as to open and close gaps in both the upper and the lower jaw. They can also be used as distraction screws, or for early palatal expansion of the upper jaw at the beginning of the mixed dentition phase.

The body of the Variety click/Variety click SP is welded onto individual retention legs, connectors or so-called cap splints which have been either cast or produced by the SLM method in metal. The finished Variety click/Variety click SP appliance is cemented into position in the usual manner.

Variety click (Fig. 1)

- small dimensions with maximum possible expansion
- integrated spindle friction prevents unwanted reversing
- clearly visible laser marked arrow on the body of the screw indicates the opening direction and the maximum expansion
- screw can be fixed with wire once desired expansion has been reached

Variety click SP (small palate, Fig. 2)

- all the characteristics of the Variety expansion screw
- especially suitable for very narrow jaws

3. Fabrication of an appliance with Variety click/Variety click SP expansion screw with individualized retention legs and cap splints.

The following steps should be followed to manufacture individualized retention legs and cap splints by casting or by the SLM method (Fig. 3–4). Preformed bands or individualized cap splints are fitted on the mandibular first premolars and the first molars, each left and right. The bands/cap splints are adjusted to fit on a hard plaster model or a 3D printed model.

The retention legs / cap splints are designed so that they can be welded to the expansion screw body of the Variety click/Variety click SP screw. The weld seam follows the groove in the screw bodies. The retention legs are connected to the Variety click/Variety click SP screw in such a way that the weld seams extend along the groove (see Fig. 5–6).

The Variety click/Variety click SP screw should „float“ freely 1–2 mm above the gingiva (Fig. 7). To avoid any leverage effect, ensure that the direction of force runs parallel to the occlusal plane.

4. Tips for working with Variety click/Variety click SP expansion screws without retention legs

For the connection to be durable, the individualized retention legs must be welded along the groove of the body of the Variety click/Variety click SP screw body, for example using the welding unit desktop Compact (REF 090-578-50). As an average value for NiCr, the initial laser setting on the unit is as follows: 240 volt, 4 ms, 0.8 mm. The use of a shielding gas is indispensable during the welding process.

When using or adding new material to reinforce the welding area, we recommend the NiCr welding wire, \varnothing 0.50 mm (REF 528-220-00) (Fig. 9)

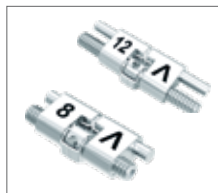


Fig. 1



Fig. 2



Fig. 7



Fig. 8

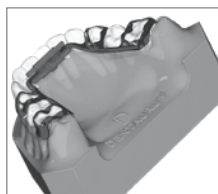


Fig. 3



Fig. 4



Fig. 9

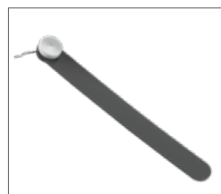


Fig. 10

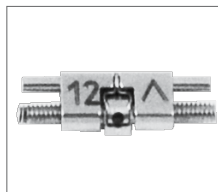


Fig. 5



Fig. 6