




Fig. 10 palex<sup>®</sup>

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 **Information for the doctor/patient**

Before cementing the palex<sup>®</sup>/palex<sup>®</sup> neo appliance into position, open the spindle (screw) by making 2–3 quarter turns in the direction of the arrow to test mobility. Then turn back to the original position.

Turn the palex<sup>®</sup>/palex<sup>®</sup> neo 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 palex<sup>®</sup>/palex<sup>®</sup> neo appliance is cemented into position in the usual manner.

Afterwards, give the spindle one full turn (4 x 90°) with the safety key supplied. One full 360° turn of the spindle = 0.8 mm expansion.

On the basis of your instructions, the patient should complete two quarter turns (2 x 90°) in the morning and two quarter turns in the evening until the desired expansion is achieved.

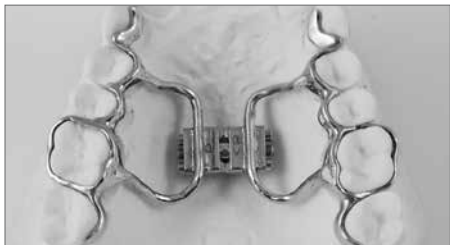


Fig. 11 palex® neo

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**Note:** Always use only the blue safety key supplied to prevent swallowing!

Regular visits are recommended to monitor progress.

The palex® neo screw has, due to its construction, no active stop (indent in pin offers passive stop). If the palex® neo screw is turned too far, the spindle loses its function and the screw is held in position by the pins. It is then no longer possible to turn the palex® neo screw back.

The palex®/palex® neo 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.



Fig. 12

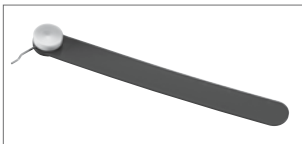


Fig. 13 Safety Key REF 611-120-00



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

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.

- For more information on our products, please visit [www.dentaurum.com](http://www.dentaurum.com)
- Our orthodontic technicians are available to answer any questions you may have regarding our products:

Customer Service: Phone 800 523 3946  
[info@dentaurum-us.com](mailto:info@dentaurum-us.com)

Date of information: 07/21

Subject to modifications



CE 0483

palex<sup>®</sup>  
palex<sup>®</sup> neo

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](http://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**

palex® and palex® neo screws without retention legs (hygienic rapid expansion screw, figs. 1–2) are special screws used for fast palatal expansion. The body of this screw is welded onto individual retention legs, connectors and/or so-called cap splints which have been either cast or produced by the SLM method in metal. The appliances are cemented or fixed to the tomas®-pin as usual. Follow the instructions from the cement manufacturer.

### **3. Area of application**

Used for rapid palatal expansion with a fixed appliance.

### **4. Fabrication of a palex®/palex® neo appliance 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. 3–5). Individualized cap splints are fitted on the first premolars in the maxilla and the first molars, each left and right (Fig. 10–11). The retention legs are connected to the palex®/palex® neo screw in such a way that two weld seams form along the lateral or the upper groove (Fig. 8–9). The palex®/palex® neo screw should be “suspended” at least 1–2 mm above the palatal vault/gingiva (Fig. 6–7) and its dorsal side should be in line with the mesio-palatal cusps of the first molars.

In order to avoid leverage, the screws must be situated parallel to the occlusal plane. In order to facilitate the task of inserting the safety key (Fig. 13) and activating the screw, the palex®/palex® neo screw is fitted with the direction of rotation facing towards dorsal.

### **5. Tips for working with palex®/palex® neo screws without retention legs**

For the connection to be durable, the individualized retention legs must be welded onto the groove of the body of the palex®/palex® neo screw (Fig. 8–9), for example using the welding unit desktop Compact (REF 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, ø 0.50 mm (REF 528-220-00, Fig. 12).

### **6. Composition**

The composition is included in the materials list; please refer to the catalog or [www.dentaurum.com](http://www.dentaurum.com).

### **7. Safety instructions**

Always use only the blue safety key (Fig. 13) 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.

### **8. Information for single use products**

The palex®/palex® neo screw without retention legs is intended for single use only. Reconditioning a used palex®/palex® neo screw (recycling) and its reuse on a patient are not permitted.

### **9. Additional information**

- There are no particular precautions to be taken when disposing of palex®/palex® neo screws after treatment.
- Should you have any questions, please contact your local representative.

### **10. Product range**

Please refer to our Orthodontics catalog for the complete range of palex®/palex® neo screws.

## 11. Quality

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.

## 12. Explanation of symbols used on the label



Refer to the label. Additional information can be found at [www.dentaurum.com](http://www.dentaurum.com) (Explanation of symbols REF 989-313-00).



Fig. 1 palex®



Fig. 2 palex® neo



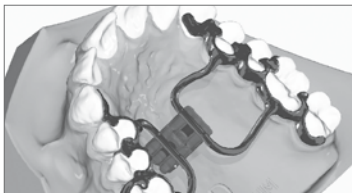


Fig. 3 palex<sup>®</sup> neo



Fig. 4 palex<sup>®</sup>

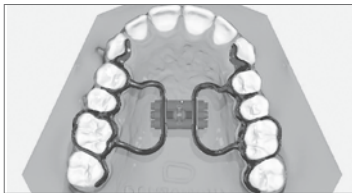


Fig. 5 palex<sup>®</sup> neo



Fig. 6 palex®



Fig. 7 palex® neo



Fig. 8 palex®



Fig. 9 palex® neo