

## Use and Safety-Instructions for Palatal Suture Expanders

Article Number.: 1114/10, 1114/13, 1114/15, 1114/17 and 1114/22

These use and safety instructions are valid for all palatal suture expanders of above stated article numbers. Each of our products is functionally tested. However, should a screw not function impeccably, despite of our severe controls, we ask you to send it back to us without delay, under mention of the LOT - Number.

### 1. Insertion

The retention arms of the palatal suture expander are work-side bent. For a better adjustment to the molar bands, these should be bent further. For this operation, one should keep the connection link between the body of the palatal suture expander and retention arms free of any bending forces. This can be done while seizing the arms directly at their base by means of pliers. As the used forces for bending the support arms are higher than those appearing during the treatment, it can be possible that an improperly executed bending operation lead to the destruction of the connection link, and therefore to the loss of the screw.

The connection links to the molar bands must be executed carefully. As additional element we recommend dental-goldsolder (medical device Class 2a), or Laser welding. One should take care, while welding with Laser, not to make the retention arm too much weak ( jag effect). During the soldering operation, take care of not overheating the screw body over 200° C, otherwise the friction break can be damaged.

### 2. Treatment

Do not open the screw over its maximal expansion limits mentioned in the technical specifications. One runs the risk to make the screw instable and fall apart, and lately could the components be swallowed. The treatment should be done under medical supervision. In the case of great expansion, one runs the risk that the screw settles in the mucous membrane. The treating physician must be aware of that and seize preventive measures.

Maximum allowed expansion range:

Artile Number	Maximum expansion	Number of quarter turns	Artile Number	Maximum expansion	Number of quarter turns
1114 / 10	5 mm	22	1114 / 17	13 mm	57
1114 / 13	9 mm	40	1114 / 22	18 mm	80
1114 / 15	11 mm	48			

**Caution:** This products contains Nickel and Chrom! By patients who present allergic reactions ( apparition of bubbles, itching), the treatment should be interrupted.

### 3. Recommendations to the patient

In the case of permanently inserted devices, take care of a special mouth hygiene. One should recomend to the patient an intensive clean by means of the toothbrush and dental clean-solution.

