

## Frequently Asked Questions Flex Developer (FD™)

### What is the Flex Developer?

The FLEX DEVELOPER™ is the most powerful and unbreakable treatment device for orthodontic corrections in Class II diagnoses. The goal is to move/keep the mandible forward by re-training the muscles in the first step and then effect a reconstruction in the area of the teeth, the jaw and the mandibular joints. In addition, the device creates space in the maxilla and can also be used to close gaps in the mandible. If desired, this can also be used to achieve distal movement of the maxilla. In addition to making it possible to move the teeth, it also has a functional orthodontic effect. Thus, it encourages patients to hold the lower jaw forward, so that, as with the Herbst device, mandibular growth is achieved.

In terms of hardness, the FD can be categorised as medium, whereby particular flexibility for applications is guaranteed through the flexibility of the force setting. The Herbst developer (HD), which can lengthen through a telescopic connection and provides double security when the mouth is opened, is harder. Which device is better suited for treatment in individual cases can be determined from the diagnoses of the mandibular joint, the musculature and the tooth/jaw position and the age of the patient.

### For which indications is the FD used?

- Distal movement of maxillary molars (headgear effect)
- For the mesial movement of mandibular molars (at extractions or agenesis of premolars)
- To promote the growth of the mandible (activator effect)
- Class II corrections of the entire dental arch (FS/removable)
- Retrusion of anterior maxilla (with elastic ligatures)
- Protrusion of anterior mandible (do not bend bypass arch!)
- Midline correction (unilateral application)
- Unilateral dental Class II correction (unilateral application)



### What are the advantages of FD compared to its competitors?

- Unlike the conventional elastic band, where the delivery of force becomes larger and more vertical as the mouth is opened further, the FD™ develops its horizontal force a few millimetres before the mouth is closed. When the mouth is opened, it slides posteriorly passively, unforcefully and entirely without side effects. Particularly in patients with minimal growth in the jaw area, the Flex Developer is highly advantageous in comparison with comparable orthodontic treatment devices.
- The FD™ is not placed directly at the main treatment arc but at a bypass arc, so that if necessary it is possible to prevent proclination of the front teeth. For this reason, the FD™ can be used without side effects both in Class II.1 patients and patients with an anterior open bite.
- Flex-spring rods can be shortened to any required length, eliminating the costs of acquisition of the staggered range sizes.

### Patient Advantages:

- Class II correction in the shortest time with tooth movement of up to 1 mm per month, guaranteed success within 9-12 months.
- Robust and unbreakable device of the highest quality: after millions of bending cycles, the therapeutically effective force is completely retained.

### User Advantages:

- The FD can be shortened to any desired length and thinned to any desired diameter, so that forces between 50-1000 cN can be set. The device can be used on one or both sides.
- No laboratory capacity/employees required and adjustable to any required length