Discover ... performance!

FLAIR® SLT

More, than just self-ligating!

VESTIBULAR METAL BRACKETS FLAIR®SLT SYSTEM

Discover … performance!

FLAIR® SLT – More, than just self-ligating!
The patented FLAIR® self-ligating rotational spring clip – overcoming the limitations of self-ligating brackets by using the advantages of elastomerics

adenta's vestibular and lingual patented self-ligating brackets combine the best of both worlds.

They were designed in order to combine the flexibility of an elastic ligature with the economic advantages of a self-ligating clip by eliminating the clinical limits of a locking self-ligating sliding clip.

+ minimize binding
+ avoid notching
= less friction & faster results

Outstanding biocompatibility due to the built-in SAFETY RELEASE FUNCTION

− Conventional self-ligating brackets become a convertible tube: At a certain degree of rotation, all locked/sliding self-ligating brackets create a tunnel with four rigid walls, resulting in undesired considerable forces, adding friction to the system. Especially in highly rotated teeth, locked/sliding self-ligating clips produce binding and create notching, which slows down the treatment process.

+ Elastomeric adjust to the malocclusion: The elastic ligature flexes especially with highly rotated teeth and therefore does not force the wire into the slot as locking self-ligating clips do – the periodont is unlikely to be overpowered.

The adenta FLAIR® self-ligating spring clip functions as an active flexible spring that will alleviate pressure appropriately when force is exceeded over 900gms and will release the wire totally as soon as the force created on the tooth is too high. This feature plays a key role for the earlier insertion of stronger wires and protects the periodont.

= More comfortable for the patient as pressure is alleviated on over stressed teeth.

AD adenta

## The non-locking flexible ROTATIONAL SPRING CLIP

- The FLAIR® self-ligating spring clip is engaged even if the wire does not fill the slot, this early torque control and passive ligation significantly shortens treatment time compared to conventional brackets.

- The FLAIR® self-ligating spring clips flexes according to the malocclusion. As the spring clip constantly presses the archwire into the slot it ensures effective rotation and torque control allowing earlier archwire changes and less visit frequencies than with other conventional self-ligating systems.

- The FLAIR® self-ligating spring produces an average of 650 grams of force when active, optimal force needed to control treatment.

- Sturdy clip withstands the rigors of numerous wire changes.

Easy to open, easy to close

- The FLAIR® self-ligating clip is designed to work like a spring, very little force is needed to open and close the bracket, creating optimum handling for the doctor and comfort for the patient.

- Insert the opening instrument into the hole located on the top of the clip. Holding the opening instrument between your thumb and forefinger, make a small rotation of the instrument by rolling between your fingers.

Responsive
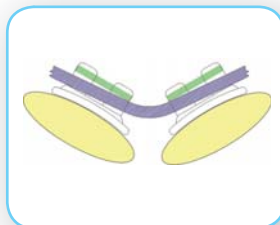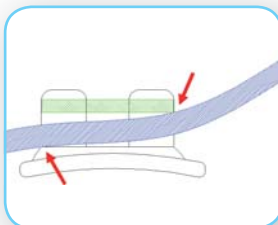
Conventional self-ligating bracket lock the wire and therefore increase binding and notching.
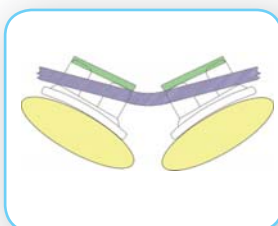
The patented adenta FLAIR® clip flexes like an elastomeric ligature and therefore responds to the actual malocclusion without losing force, which reduces binding and prevents notching especially with highly rotated teeth.

Passive and active

It is passive with wires smaller than .018" producing nearly frictionless movement resulting in an efficiency increase in the leveling stage.

With wires larger than .018" the bracket actively but gently guides the wire into the slot, creating early torque control and increasing treatment time and efficiency.

Bringing German Engineering to Orthodontics

Unique Rotation Control
With highly rotated teeth, the interactive self-ligating clip flexes as the archwire presses against one side of the clip, gently rotating the tooth into its position by reducing at the same time binding and avoiding notching.
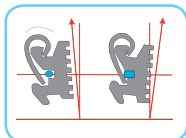
Early Torque Control
The adenta FLAIR® self-ligating flexible clip provides stable torque by the application of constant pressure to a rectangular archwire by the spring clip, offering full and early torque control.

Built-in Over-Rotation Arch
No additional bracket bonding is necessary as the built in rotation arch of the adenta FLAIR® self-ligating clip allows to directly over-rotate a tooth with a heatactivated adenta Thermalloy archwire .012".

Patented Crown Base
The tooth shaped base for easy direct bonding and true 3D base coverture allows precise bonding by using the 4 visual cues of the bracket base, reducing the margin of error in setting brackets.

Ultra low IN/OUT
As a unique milled truly one-piece bracket the FLAIR® SLT bracket is characterized by a remarkable proximity of the archwire to the point of force application, the center of resistance of the tooth.

Superior Bonding Strength
Micro-etched integral bonding base with mechanical undercuts for superior adhesive retention. Rated highest bond strength in clinical study. (S.K. Sharma-Sayal, University of Toronto, Ontario, Canada, 1999).

Outstanding oral hygiene
No hooks to accumulate plaque or overlap the marginal gingiva.

Patient satisfaction
A low profile and smooth surfaces as well as rounded clip edges provide enhanced patient comfort. Due to the truly flexible clip, earlier wire changes are possible which result in fewer appointments. In addition to elastomeric free treatment, longer appointment intervals and enhanced oral hygiene provide freedom to the patients.

Optimum Force
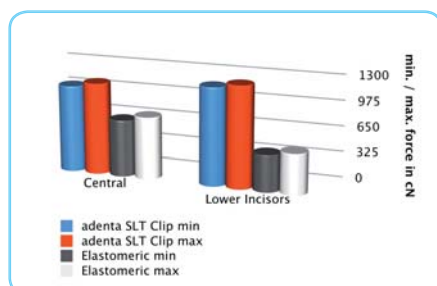
With an active force of approx. 650 cN/grams the adenta FLAIR® self-ligating clip provides on average approx. 50% more power than a new elastomeric ensuring a safe and reliable archwire ligation. Especially in the finishing phase with large rectangular wires, as the lumen of the adenta self-ligating brackets will be increasing, the clip is stronger as a new elastic ligature.

Chart legend:
- adenta SLT Clip min
- adenta SLT Clip max
- Elastomeric min
- Elastomeric max

Chart axis (min. / max. force in cN): 0, 325, 650, 975, 1300
Categories: Central, Lower Incisors