

# LINGUAL ORTHODONTICS



*Joy*<sup>®</sup> LINGUAL



**Evolution**<sup>®</sup>  
self-ligating lingual bracket



we're all about solutions

# Evolution<sup>®</sup>

self-ligating lingual bracket



- Fewer appointments
- Less chair time
- Faster results



The demand for invisible orthodontics has never been so high. Our new technology has now made it possible to meet that demand head on, high quality, easy to use lingual brackets are changing orthodontics as we know it today

Adenta's advances in materials, laboratory techniques, and bracket design have offered the lingual orthodontist completely systemized protocols, predictable results, uncomplicated bonding systems, and standardized biomechanics. Almost all cases can be treated with the Evolution Self-ligating lingual bracket including extraction cases and patients with a deep bite.

## Why choose the Evolution SLT<sup>®</sup> bracket...

- Individual transfer trays eliminates improper seating.
- Self-ligating bracket eliminates ligature ties.
- Closing springs are designed as bite planes for the lower incisors.
- Spring Clip provides perfect transmission of torque and angulation.
- One-piece design.
- Vertical slot for easy wire insertion.
- Significant reduction of chair-time.
- Hygienic situation, oral hygiene is more controlled since there is no elastomerics to trap additional food.

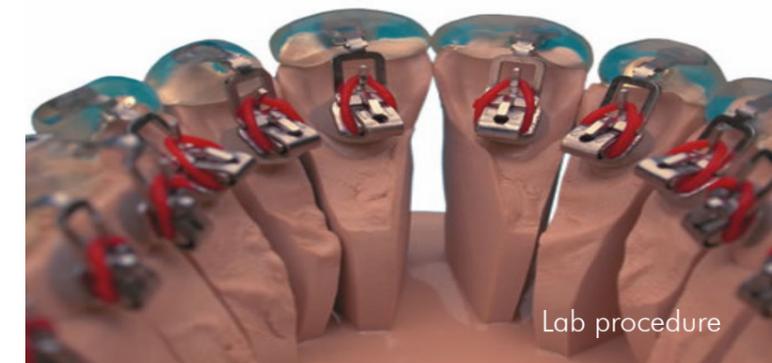


# EVOLUTION<sup>®</sup>

Self-ligating Lingual Bracket

## Self-ligating Benefits

- Fast arch-wire changes
- Easy arch-wire changes
- Frictionless with wires up to .018
- No Friction enables the leveling stage to progress quickly
- Lower friction brackets require less anchorage
- The power of self-ligating clip increases torque, angulation and in-out control
- Arch-wires can be engaged from a comfortable vertical direction
- The self-ligating pressure of the clip and the width of the bracket ensure full rotation control
- Self-ligating clip is used as a bite plane accelerating bite opening.
- The self-ligating clip streamlines the design of the bracket, with no hooks to accumulate plaque, or overlap the marginal gingival, oral hygiene can be performed with ease



Straight wire appliances make it imperative that the brackets be positioned with accuracy in order to fully exploit the interaction of their written prescription. The Hiro Modified Technique assures the total compliance of the doctor's prescription, using each tooth's individual morphologic anatomy, while allowing the newly prescribed set-up to retain the doctor's values. The new torque and axis inclinations created through the set-up allow more precise biomechanics, giving the clinician accurate and predictable control during the different phases of the lingual treatment.

## Certified Lingual Labs

### Thomas Halbich Lingualtechnik

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Thomas Halbich

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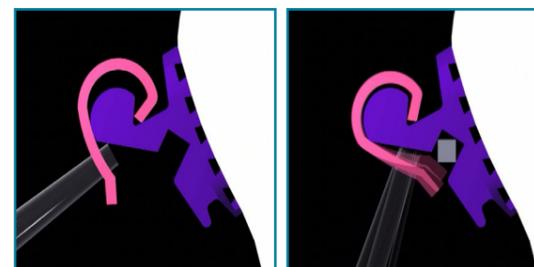
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## Easy to open.... Easy to close

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. The self-ligating clip is designed to work like a spring, very little force is needed to open and close



## Small & Truly Invisible...

discretely, quickly and comfortably correct minor misalignments.

### This truly invisible orthodontic method is attracting the patient who would normally not seek orthodontic treatment.

The **JOY**<sup>®</sup> lingual bracket is comfortable for the patient and affordable for the orthodontist. The **JOY**<sup>®</sup> lingual bracket keeps the orthodontist in control and offers a manifold of treatment options. Optimal occlusion and function, as well as the aesthetic aspects desired by the patient can be achieved with this bracket. Designed to easily fit into the busiest of practices, offering patient comfort, affordability, and uncomplicated application.

The Joy Lingual bracket is designed specifically for adult cases that have relapsed or who only require two dimensional treatment. If the 3rd dimension of torque is required, the use of an indirect tray is necessary. All 2 dimensional cases will range from 12 to 18 weeks. Generally only one wire is required so treatment is fast, predictable and completely in your control. If the 3rd dimension of torque is required, the use of an indirect tray is necessary.

- **A perfected alternative to plastic trays**
- **No patient compliance required**
- **Small and comfortable to wear**
- **Completely undetectable**
- **You are in control of treatment**
- **Choose between, indirect or direct bonding**
- **Minimize high laboratory cost**
- **Affordable**
- **Attract new patients**

# Joy<sup>®</sup> LINGUAL

## Small & Truly Invisible...

### Attracting new patients

According to the AAO more than five million people in the United States and Canada alone are presently in orthodontic treatment. One in five is over age 18. Some patients are in their 50s, 60s and older. Less visible, more comfortable braces make treatment more appealing than ever.



BEFORE



2 WEEKS LATER

### DIRECT BONDING

The **JOY**<sup>®</sup> lingual bracket has been designed specifically for two-dimensional cases (leveling and rotating first order values). As two dimensional cases, do not incorporate torque or tip (second and third order values) the **JOY**<sup>®</sup> lingual bracket can be bonded directly, eliminating the need for any laboratory services, indirect systems, or additional laboratory costs. Many adults already have completed orthodontic treatment as children, only to have relapsed or experienced minor anterior crowding. Completely invisible the **JOY**<sup>®</sup> lingual bracket with its low profile and narrow width, offer your adult patient a high degree of comfort, and enables the orthodontist to bond all brackets from the very beginning of treatment, even with over rotated situations.

### MINIMAL FRICTION

The **JOY**<sup>®</sup> bracket is distinguished by its unique twin shoulder wing design. Even though the bracket has a very low profile, the arch wire channel capacity in the mesio-distal region is broad. As a result, it is possible to achieve exceptional control of tooth rotation's and inclination. These two supporting shoulders prevent friction in the slot in treated cases of wires up to .014". This will enable the leveling phase to move more rapidly and efficiently.

### MINIMAL FORCE

The low profile and one piece bracket design provides minimal IN/OUT occurrences. Especially since the bio-force application is very close to the lingual crown of the tooth. Even thin arch wires (.010/.012 NiTi), that take into particular consideration the neuromuscular and biomechanical aspects, will increase the patients comfort. For many patients the **JOY**<sup>®</sup> lingual bracket is the ideal solution, to discretely, quickly, and comfortably correct minor misalignments.



Upper & Lower 3 - 3

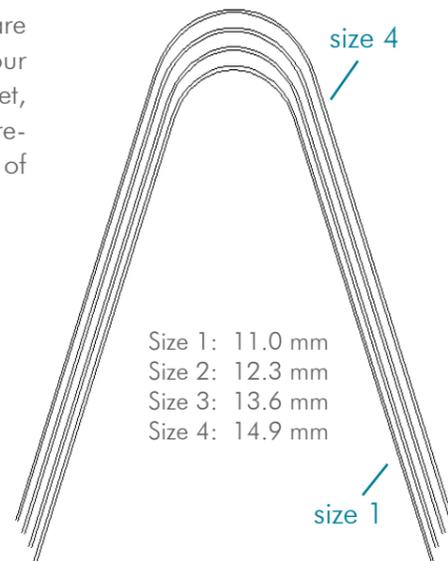


Upper & Lower 4 - 5

# Lingual Wires - lingual mechanics just got easier.

As lingual practitioners are well aware, there is zero tolerance for torque in any lingual straight wire system. Pre-made lingual mushroom arch-forms are available but not recommended, as the offset needs to be specific to your patient. We recommend that you use a lingual arch form without an offset, eliminating the need to buy many different sizes and needing to adjust pre-made offsets to fit your patient. Less forming, in turn lessens the chance of torque the wire, as perfect symmetry is your aim.

<b>Nickel Titanium</b>	.014
<b>Heat Activated NiTi</b>	.012, .014, .016, .016x.016, .016x.022, .017x.025
<b>CNA Beta III</b>	.016x.016, .016x.022, .017 .025
<b>Stainless Steel</b>	.016, .016x016, .016x.022, .018x.018, .018 x.025



## How to Bend the lingual offset

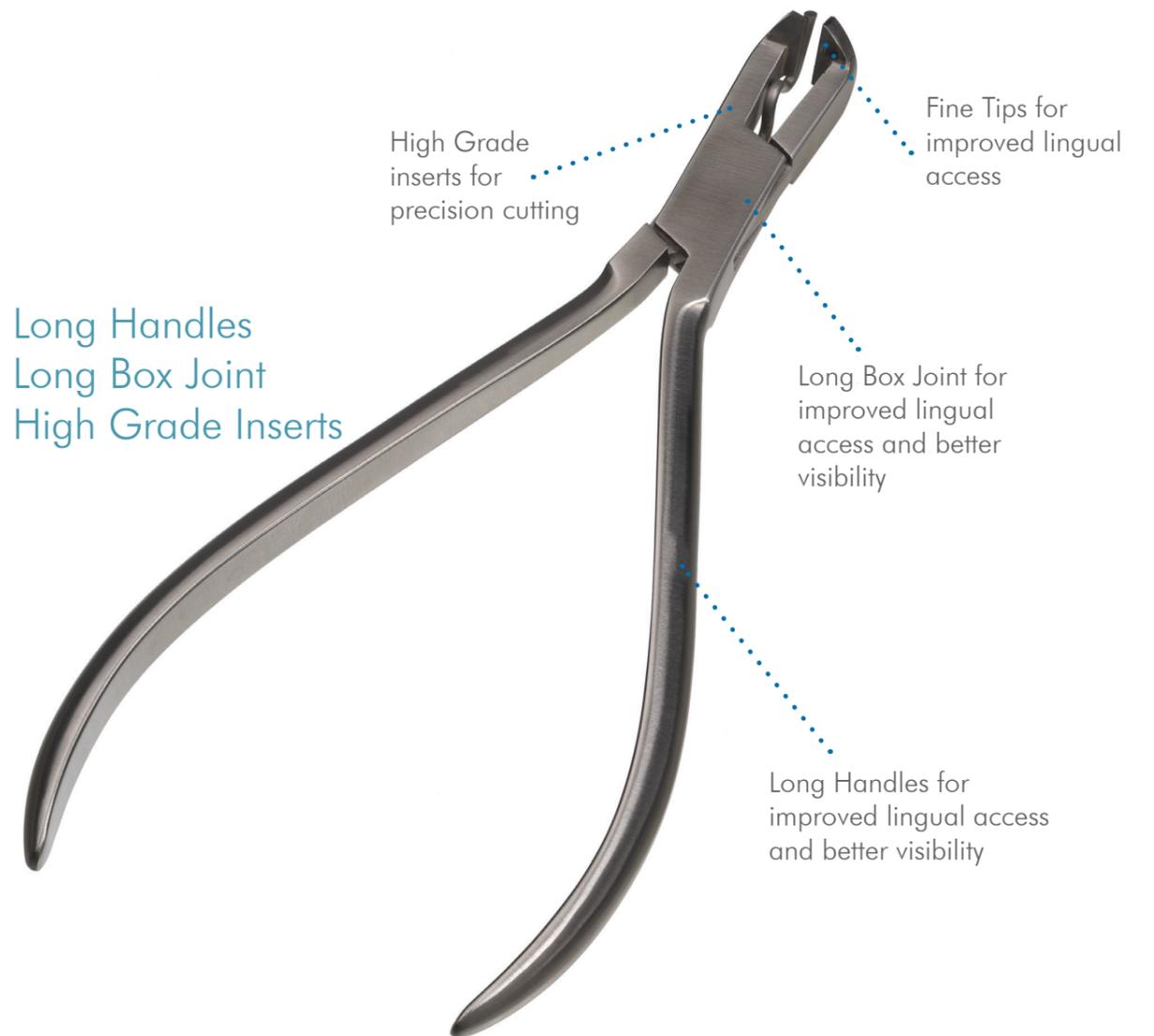
The antimony of the lingual arch is positioned in such a way that it is customary to offset your lingual wire at the canine and another offset at the distal face of the second premolar. This offset bend will adjust the lingual wire form and follow the lingual arch, avoiding the molars. This bend can be completed with a Niti Three prong plier for the heat activated wires and a Bird Beak for all other wires.

- Mark the position of the distal face of the canine with a wax marker.
- Place the Three Prong on this mark and bend 90 degrees.
- With a wax pencil mark the distance to the first premolar and bend 90 degrees.
- Make the same adjustment to fit the premolar/molar relation.
- Eliminate any torque that would cause the wire to lift.



# Lingual Pliers

- Long Handles
- Long Box Joint
- High Grade Inserts



## Lingual Plier Line





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