HARMONY®

SELF LIGATING CUSTOMIZED
LINGUAL APPLIANCE

AMERICAN
ORTHODONTICS
A COMPLETE DIGITALLY CUSTOMIZED SELF LIGATING LINGUAL SYSTEM

HARMONY is the only lingual system that combines:

- 3D Digital Set-up
- Customized Pads
- Interactive Self Ligating Brackets
- Robotic Arch Wires
- Anterior Positioning Jigs

As an orthodontist, I felt that the HARMONY System should adapt to the treatment philosophy of every clinician, providing doctors with the ability to design each case to meet their individual treatment goals. After successfully treating more than 1,000 cases with the HARMONY System, doctors have discovered just how easy lingual orthodontics can be when using advanced CAD/CAM and precision wire bending technologies.

Patrick C. Curiel, DDS, MA
Founder of the Harmony Lingual System
HARMONY is a digitally customized self ligating lingual system that offers exceptional control in all three dimensions from the initial passive phase with small round wires to the finishing phase when tolerances between large rectangular wires and the actively-ligated slot are critical.

INTERACTIVE SELF LIGATING BRACKETS

INITIAL PHASE:
Passive clip for minimal friction during leveling and aligning.

MIDDLE PHASE:
Interactive clip for space closure and intra-arch mechanics.

FINAL PHASE:
Fully active clip for finishing with optimal control in all three dimensions.

DURING TREATMENT:
The interactive clip gently and comfortably guides the tooth to its ideal position.

HARMONY SELF LIGATION BENEFITS

REDUCED CHAIR TIME
Self ligation technology combined with pre-formed arch wires enables quicker and easier wire changes.

EFFICIENCY
Using self ligating clips instead of ligatures that tend to lose effectiveness over time may allow for longer duration between visits.

DEPENDABLE TREATMENT
The combination of precision manufactured self ligating brackets and robotically formed arch wires leads to highly predictable outcomes.
CUSTOMIZED BONDING PADS

Using proprietary digital scanning and CAD/CAM technologies, a highly accurate bonding pad is created for the lingual surface of each tooth. The slot of each bracket is positioned ideally on each tooth using a customized adapter.

CUSTOMIZED METAL PAD

Self Ligating Bracket with Customized Bonding Pad

Customized Adapter

BONDING ACCURACY

Anterior positioning jigs are provided with every HARMONY case, which provide a mechanical guide for bonding anterior teeth that are unable to be bonded at the beginning of treatment or require rebonding during treatment.
HARMONY offers three options for customizing the arch wires and the in/out dimensions of the appliances.

**Compensation in the Wire**
Arch wires are adapted as close to the tooth as possible. A small in/out dimension on every tooth adds more bends to the wire, but maximizes patient comfort.

**Compensation in the Bracket**
In/out dimensions are increased on some teeth to form an arch wire with minimal bends, which improves sliding mechanics.

**HARMONY Optimized**
Harmony balances the compensation between the wires and brackets to optimize patient comfort.

**TYPES OF HARMONY ARCH WIRE**
- Nickel Titanium
- Stainless Steel
- Beta Titanium

ROBOTICALLY FORMED ARCH WIRES
HARMONY delivers predictable outcomes and efficient treatment mechanics using digitally customized self ligating brackets and arch wires. Doctor defined specifications and proprietary technology are used to produce a series of robotically formed arch wires tailored to each patient.
HARMONY LABORATORY

- Doctors view each case using HARMONY’s online clinical check feature, which provides a 3D digital view of the finished case prior to fabrication of brackets and arch wires.
- The digital set-up for every HARMONY case is determined by the orthodontist’s treatment philosophy.
- Indirect bonding trays and positioning jigs take the guesswork out of lingual bonding.
- Each case is custom manufactured to deliver predictable results.

BEFORE TREATMENT

AFTER TREATMENT

Case provided by Dr. Adrien Marinetti