Achieving finishes that adhere to the standards set by the American Board of Orthodontics has proved challenging for many orthodontists in the past.

One reason for this is most conventional bracket systems have oversized and/or irregular slots. These brackets also lack universal in/out dimensions, they require extensive compensating wire bends and, ultimately, they provide unpredictable results.

The Avex Suite solves these issues by offering brackets and buccal tubes manufactured to extremely precise specifications. Created by Dr. Richard P. McLaughlin and Dr. John C. Bennett through Opal Orthodontics, the Avex Suite helps orthodontists achieve more effective and more stable treatment outcomes than ever before seen.

CNC Precision Technology and Avex Suite

Every stainless-steel bracket and buccal tube in the Avex Suite is machined using precise computer numerical controlled (CNC) technology. This proprietary manufacturing process yields revolutionary appliances that offer fewer unwanted debonds, the tightest tolerances in the industry, true torque in the base and extremely precise slot sizes.

This is important, as “the accuracy of the arch wire slot significantly reduces the need for arch wire bending,” McLaughlin said.

The system also features universal in/out dimensions, which make Avex MX metal brackets and Avex CX esthetic brackets interchangeable — an industry first.

The McLaughlin Bennett System 4.0

Because of Opal Orthodontics’ unique CNC machining process, McLaughlin and Bennett were able to refine prescriptions they had previously collaborated on to create the new McLaughlin Bennett System 4.0.

In this new prescription, McLaughlin and Bennett changed angulations and made additional adjustments to enables fully expressed torque, optimize in/out dimensions, provide proper tip control and improve the finishing phase of treatment by reducing necessary arch wire bending.

For maximum predictability, the McLaughlin Bennett System 4.0 also integrates the precision of VIA Wires™ arch wires and proper wire sequencing. The Avex Suite is the only system of orthodontic appliances that adheres to all of the prescription’s rigid and specific standards, designed to produce predictable, board-standard results quickly and efficiently, Opal Orthodontics asserts.

Conclusion

The brackets and buccal tubes in the Avex Suite represent the next generation in orthodontic treatment. With preadjusted torque and universal in/out dimensions, the Avex Suite is designed to achieve ideal occlusion and offer efficient treatment options with ceramic CX and CXI brackets, stainless-steel MX bracket and BX buccal tubes.

In short, the Avex Suite aims to deliver precise, predictable, patient-centered outcomes with board-standard results.

‘The accuracy of the arch wire slot significantly reduces the need for arch wire bending.’