Every practice is challenged to meet the specific treatment needs of each individual patient, while employing standard treatment processes for optimal practice efficiency. Now both goals are met within one treatment methodology.

The MBT™ Versatile+ Appliance System is a combined set of appliances and solutions that work together to provide an efficient means to address all levels of clinical challenges.
The MBT™ Versatile+ Appliance System
Meeting Treatment Challenges with Science and Technology

The MBT™ Versatile+ Appliance System leverages decades of scientific research and clinical experience together into one methodology. It is centered around patient-focused bracket selection, stable arch control, continuous light force sliding mechanics, accurate bracket placement and effective diagnosis and treatment planning. The treatment philosophy that encompasses these elements delivers an innovative approach to many treatment challenges.

Challenges of Torque Control

- Upper anterior torque loss
- Lower anterior flaring
- Upper posterior buccal rolling
- Lower posterior lingual rolling

The MBT System’s prescription updates the original pre-adjusted appliance values to achieve the desired effective torque expressed on each tooth. Especially when using light, continuous force mechanics, these values are designed to arrive at the desired torque angle without producing inadequate or excessive torque requiring further adjustment. It is a versatile system, offering different torque options to meet the optimal needs of each patient.

Challenges of Tip and Rotation Control

- Excessive tip in anterior teeth
- Misalignment of cuspid roots
- Inadequate arch length
- Molar intercuspation interference
- Unwanted lower molar distal rotation

The original pre-adjusted appliance overcompensated on tip values to counteract the high forces exerted by the archwire. Current wire technology and sliding mechanics allow the MBT System to include tip values closer to biological norms found in research. This reduces the occurrence of over-tipped crowns that can experience interference and it uprights the roots, reducing crown width and reducing overall arch length. Improved arch length is further achieved through the application of light forces on the molar appliance values, designed for improved anchorage control and reduced distal rotation for a better molar fit.
Challenges of Arch Form Control

- Arch form retention
- Proper arch form designation

Clinical research has shown a great variation in human arch form, and in the great majority of cases studied where all patients are treated to a uniform arch form, there is a strong tendency for instability or relapse. The MBT System offers three preformed arch forms that conform to the most common of natural arch forms, providing the versatility to best match an arch form for each patient. Starting with a choice of arch forms can mean fewer wire bends made chairside and in the long term can contribute to greater stability.

Challenges of Vertical Bracket Placement

- Misaligned bracket placement on vertical axis because the true clinical crown size is not apparent
- Insufficient method of determining proper bracket placement

Accuracy in bracket placement is of critical importance: the pre-adjusted tips and torques of each bracket perform best when the brackets are placed to move into a uniform arch alignment. The vertical axis is especially challenging to estimate correctly because of variances in gingival tissue or crown height that are not easily apparent. The MBT System leverages years of scientific study and clinical research to determine vertical placement norms. And from those norms, the MBT System bracket placement process offers an efficient, standardized means for achieving intra-arch accuracy along the vertical axis.

To Learn More

Each of the separate elements in the MBT System can contribute to the efficiency of treating a case, but they are designed to operate together for optimal results. Consult with your 3M Sales Representative for an in-office discussion, plus information about textbooks, literature and educational seminars on all aspects of the MBT Versatile+ Appliance System.
3M offers a wide variety of tools to help you employ all that the MBT™ Versatile+ Appliance System can bring to your practice.

- **Appliances:**
  Metal, ceramic, traditional and self-ligating. Buccal tubes on a choice of bonding base sizes or welded to bands in the MBT™ Versatile+ System weld position. A wide range to meet your treatment preferences with the constant theme of consistently-performing, quality appliances.

- **Archwires:**
  All three arch forms are available in stainless steel, Beta III Titanium and Nitinol wires. Arch form templates help the form selection steps, and posted archwires are an option to employ MBT System low-force sliding mechanics.

- **Placement tools:**
  Placement instruments and a bracket placement protocol with guide offer a consistent means of accurate vertical placement.

- **Education:**
  Contact your 3M Sales Representative to learn more about texts, literature and seminars.

Visit 3M.com/ortho.