MASO can help you
‘Chart a Course’

Middle Atlantic Society of Orthodontists to host annual session

By Sierra Rendon, Managing Editor

The Middle Atlantic Society of Orthodontists (MASO) will host its annual session from Sept. 20–23 at the Hilton Baltimore on Baltimore’s inner harbor. During this time, you and your colleagues will be “Charting a Course for the Future.” Annual session speakers include: Drs. David Sarver, Roger Levin, Neal Kravitz, Jeffrey Posnick, Normand Boucher, Jeff Behan and Chris Bentson. MASO’s staff program will include Char Eash and Tina Byrne.

At this annual session, MASO will present its Lifetime Achievement Award to Dr. David Paolini. Paolini graduated from La Salle College in Philadelphia and the University of Pittsburgh School of Dental Medicine in 1964. He received a three-year fellowship in orthodontics at the start of his practice.

*See MASO, page 7*
What does it mean to ‘do research’?

Part One

By Dennis J. Tartakow, DMD, MEd, EdD, PhD, Editor in Chief

When students and residents talk about “doing research,” many are not

thinking in the realm of classic research approaches, but rather writing an ar-

ticle on a specific topic or exploring a limited clinical project.

Most medical and dental students think about the quantitative approach

because it has been used as the meth-

od of choice for many years, whereas

the social science students are more

familiar with qualitative methodologies.

Inquiry into a variety of clinical or

theoretical medical and dental topics can employ quantitative, qualitative or

both methodologies in the same study.

It is time to expand the erudition of re-

search, and it is at the medical and den-

tal student level that such new points of

interest must be established.

Until recently, the medical and den-

tal sciences have been more concerned with treating the down stream prob-

lems, rather than up the stream etiolo-

gies and a quest for visualizing medical and

surgical research.

As a pragmatist and realist, I see the world of a research question for al-

lowing the researcher to be open to (a)

multiple methods of data collection, such as qualitative and quantitative

sources, (b) focus on practical implica-

tions of research, and (c) emphasize the impor-

tance of conducting research that best addresses the research problem.

Please look for Part Two in the next edi-

tion of Ortho Tribune.

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Image courtesy of Dr. Earl Broker.
How to avoid extractions when treating malocclusions using MRC’s Bent Wire System and Trainer System for arch development

By German O. Ramirez-Yañez, DDS, PhD, and Chris Farrell, BDS

Abstract
Maxillary and mandibular expansion has been proposed to increase the arch perimeter and to avoid extractions during orthodontic treatment. Although controversy has persisted over the stability of expansion techniques, there is an increasing trend toward “non-extraction.” This paper describes a novel method to produce expansion of the dental arches, and at the same time, to treat muscular dysfunctions that may be the etiological factor of the malocclusion. The system has been developed by Myofunctional Research Co. (MRC), Queensland, Australia, as a simpler method of phase one expansion, which may produce improved stability because of simultaneous habit correction in selected cases. Two cases treated with the Farrell Bent Wire System™ (BWS™) are described and the advantage of this method of treatment is discussed.

Introduction
Expansion of the jaws has been increasingly performed in orthodontics to achieve better occlusal and maxillary relationship and, in doing so, improving oral functions. Maxillary and mandibular expansion has been proposed since Edward Angle to avoid extractions (Dewel, 1964). This paper presents a novel method to produce dental arch development in the maxilla and the mandible, while at the same time correcting or maintaining the inter-maxillary relationship either if a sagittal and/or vertical problem exists or a Class I malocclusion is present at the beginning of treatment. There is a controversy regarding the ideal time for performing the expansion. Sari and co-workers reported that rapid maxillary expansion by means of a fixed screw (eg. Hyrax) produces better results when it is performed in the early permanent dentition (Sari, 2003). Although this statement appears to be supported by other studies (Chung, Housley, 2003; Spillane, 1995), maxillary expansion may also be successfully done in older adolescents and adults (Stuart, 2003; Iseri, 2004; Lima, 2000). In the maxilla, rapid and semi-rapid expansion produce an increase of the lower nasal and maxillary base widths, with the maxilla moving forward and downward (Chung, 2004; Sari, 2003; Iseri, 2004). These changes in the maxilla produced by the expansion are accompanied by a spontaneous mandibular response, which increases the dental arch perimeter (Lima, 2004; McNamara, 2003) and rotates the mandible posteriorly (Sari, 2003; Chung, 2004). Mandibular displacement is associated with an increase in facial height (Sari, 2003, Chung, 2004).

Net gain in the arch perimeter may be calculated according to the expansion performed. Motoyoshi and co-workers reported that 1 mm increase in arch width results in an increase in arch perimeter of 0.37 mm (Motoyoshi, 2002). Akkaya and collaborators determined that arch perimeter gain through expansion could be predicted as 0.65 times the amount of the posterior expansion when treatment is performed with rapid maxillary expansion, and 0.60 times the amount of posterior expansion when treatment is performed with semi-rapid maxillary expansion (Akkaya, 1998). This is also supported by Adkins and co-workers, who determined that arch perimeter may increase 0.7 times the expansion produced at the premolars. An expected relapse in the amount of expansion has been reported by some authors (Hime, 1990; Housley, 2003), which appears to be the result of that pressure delivered by the cheeks on the maxillary arch and the resistance to deformation of maxillary sutures and surrounding tissues to maxillary expansion. Nevertheless, maxillary and mandibular expansion rises up as one of the important phases of orthodontic treatment, producing arch perimeter increase, and thus, avoiding extraction of teeth. Increasing numbers of multi-banded techniques using passive self-ligating brackets have become popular, but few address the challenges of adapting the soft tissues to this new dental position. Long-term retention is the recommended solution to stability. Thus, the aim

How to avoid extractions when treating malocclusions using MRC’s Bent Wire System and Trainer System for arch development
of the current paper is to present a new method to produce maxillary and mandibular expansion and, at the same time, to treat the soft-tissue dysfunction that may be responsible for treatment relapse (Ramirez-Yañez, 2005). Two example cases treated with the BWS Orthodontic System developed by Myofunctional Research Co (MRC) in Australia are presented to explain the proposed treatment.

The BWS Orthodontic System

The BWS Orthodontic System discussed in this article is composed of two different appliances: the Trainer™ and the BWS. These two appliances may simultaneously produce arch development and treat poor myofunctional habits. The Trainer, a pre-fabricated functional appliance, has amply demonstrated an ability to relocate the mandible (Lussiez, 2004) to correct improper forces produced by the muscles of the cheek and lips (Quattrelli, Ramirez-Yañez, 2005) and to change the dimensions of the dental arches (Ramirez-Yañez, 2005b). Further research (Yagi 2011) showed that treatment using the Trainer produced a positive influence on the masticatory and peri-oral musculature.

However, in those cases where more maxillary and mandibular expansion is required to avoid teeth extractions, the Trainer may be combined with the BWS. This produces higher amounts of expansion and, therefore, a higher increase in arch perimeter.

It is also proposed that by utilizing the Trainer in conjunction with the arch expansion, the force of the tongue activates further alveolar changes that other techniques may not achieve because of the bulk of the appliance being located in the palate where the tongue should normally position.

The BWS is typically composed of a lingual arch, which follows the lingual surfaces of the teeth crowns at the gingival third and ends in a loop at the interproximal space between the second premolar and the first molar on both sides. The distal end engages a tube (0.022 clear tube with clear bar) welded to a cemented band on the first molar (Fig. 1). Additionally, the BWS is maintained in place, facing the gingival third of teeth’s crown, by two bong premolar brackets cemented on the first premolars with the slot directed toward gingival or alternately composite stops bonded to the premolar or anterior dentition (Fig. 2). The wire is a 0.021 0.025 spring wire and is fabricated to the arch form of the starting models either by the laboratory or the orthodontist. The simple nature of the BWS makes it possible to assemble in-house, avoiding the fees that accompany laboratory-contracted appliances.

An advantage of this system is that it does not involve using acrylic in the palatal vault. A functional appliance designed with acrylic on the palate and that is not properly built may lower the tongue, encouraging tongue thrusting, and, thus, either worsening the malocclusion or producing a relapse (Fig. 3). The Trainer is a prefabricated functional appliance, which means no laboratory involvement, and the BWS can be entirely constructed in “off ice.” The BWS is made of acrylic; nor does it occupy the palate. It allows the tongue to position correctly and the patient to speak normally.

The BWS is also suitable for use in the lower arch. Typical treatment tends to use only upper expansion for three to four months, after which time the wire component of the BWS is removed (the bands are kept for later use of the BWS). The i-2 Trainer (with the inner-cage that produces arch expansion) is then used to maintain the initial arch expansion gained using the BWS. Lower alignment is re-evaluated throughout this stage of i-2 Trainer use. Often, as can be demonstrated in the cases selected, lower alignment and arch form improves because of the maxillary expansion and peri-oral musculature functional improvement (Fig. 4). The BWS is held in place using standard ligatures placed around the BWS tube as pictured (Fig. 5).

The following two cases show the effect of the BWS Orthodontic System on arch development.

Case No. 1

This 10-year-old female patient consulted because of a crowded dentition involving unusually misaligned upper central incisors with a midline shift of 10 mm and with lost “c” space on the lower left side. The parents requested that the treatment be non-extraction, although they had previously been advised that future orthodontic treatment might require this option (Fig. 6).

The occlusion was classified as Cl with normal slight overjet and with normal overbite. No skeletal alteration was found on cephalometric measurements and analysis of cast models reported a lack of arch development. This case was diagnosed as a Cl malocclusion with underdevelopment of both dental arches. Midline shift was primarily as a result of the lost lower “c” space. Soft-tissue analysis showed a mouth-open posture and hyperactive peri-oral musculature. It was considered the myofunctional habits were a contributing factor to the malocclusion and, thus, a suitable case for the BWS and Trainer combination prior to fixed appliances. Once the permanent dentition was fully erupted.

The plan of treatment involved a first phase with a BWS for the upper arch combined with an i-2 Trainer — “n” for no core or cage for increased flexibility and use with the BWS. The i-2 Trainer was used one hour daily plus overnight while sleeping. Monthly adjustment to the activating loops of the BWS were made in increments of 0.5 mm per month. This treatment was continued for four months, after which time the upper BWS was removed and i-2 Trainer was used to maintain the expansion achieved by the BWS. The i-2 Trainer also encouraged the tongue to assist in maintaining the maxillary expansion without retainers. At this stage, the lower arch form and dental alignment was assessed and showed considerable improvement. It was noted the space for the lower left permanent canine had increased — an effect thought to be produced by the combination of maxillary arch expansion and correction of myofunctional habits. The midlines were also self-correcting.

Space for the lower canines was ultimately achieved with lower BWS. The case is further improved by continued use of the i-2 Trainer and the Myobrace Regular™ to exploit the eruption stage prior to treatment finalization with fixed appliances as required.

The observation of the effects and benefits of the BWS Orthodontic System are evident from this case, and the concepts are not new to orthodontics. Maxillary expansion tends to also improve the lower arch length and assists the orthodontist in achieving non-extraction outcomes with more stable results because of simultaneous correction of tongue position and retraining of the peri-oral musculature. The second phase of treatment did not require the BWS on the lower arch as arch development during the treatment period sufficiently opened the space for the lower permanent canine. The lower anterior teeth did not require the use of fixed appliances (Fig. 7).

Thus, this case was treated in a 2-year period, required minimal chair side time and a difficult extraction case was converted to a simple, non-extraction case.

Case No. 2

This 12-year-old female patient consulted because of very underdeveloped maxillary arch form and ectopic erupting canines (Fig. 8). This is far from an ideal stage to be considered for extraction treatment; however, the patient insisted that the case be attempted without extraction. The lower anterior teeth were also considerably crowded, and it would regularly be justified in extracting the first four premolars and going into upper and lower straight wire fixed appliances.

It could be argued that treating non-extraction will prolong the treatment and certainly incur greater expense on the patient. However, in this case, the demand from parents who have had extraction orthodontics in the past...
avoid this approach for their children. Therefore, the BWS Orthodontic System can be a beneficial technique that the orthodontist can use in these exceptional cases.

Treatment was similar to case 1. An upper BWS was fitted and combined with the use of the i-2n Trainer initially for four months, after which time the BWS wire was removed, leaving the molar bands in place. The i-2 Trainer was introduced at this stage for a further three months to maintain the expansion prior to a second phase of treatment using the BWS and i2n Trainer for three months (as mentioned earlier in this article).

This allows the dentition to "catch up" and prevents excessive tooth mobility. It is thought that much of the expansion achieved by this system is dento-alveolar rather than sutural, as with a rapid maxillary expander and other acrylic expanders. Also, there is more development in the anterior arch form, which is an effect previously found in the research on the Trainer (Ramirez-Yañez, 2005b).

The difficulty in cases like this, requiring large amounts of expansion to achieve a non-extraction result, is a tendency to create an open bite. Although this occurs to some extent, the BWS Orthodontic System does not open the bite as much as more conventional techniques because the tongue position is favorably altered by use of the Trainer. This conjecture may require further investigation to ratify.

Once again, spontaneous alignment of the lower anterior dentition has occurred without the requirement for an additional BWS for the lower arch. This effect is not just restricted to these two cases but is a routine observation of the BWS Orthodontic System. This case also illustrates the stability achieved in the lower dentition as no retainers were used apart from night use of the Trainer.

Although this patient is not at the ideal age, the pictures show that it was possible to obtain space for all permanent canines, without extractions and with good stability. The bite opening is minimal and tends to decrease with further dental development. Although this case was finalized
with the Mbrace Regular™ from MRC. 

fixed appliances on the upper arch would potentially have delivered quicker results following the BWS Orthodontic System. The assistance of correcting the forces delivered by the muscles of the cheek (buccinator) and lips (orbicularis oris) at swallowing cannot be ignored and is a key part of the modus operandi of this expansion system.

After two years of treatment and observation, along with night-time retention using the i-2 Trainer for 12 months after treatment, the BWS produced enough upper arch development to not only accommodate the erupting canines, but also achieve lower anterior alignment and, thus, to avoid the need for extractions to properly align teeth. This paper has presented two cases treated using the BWS Orthodontic System, which involves the combination of two appliance systems: the Trainer, a pre-fabricated functional appliance; and the BWS.

Both appliances, Trainer and BWS, have to be used in order to get the results reported in this paper. The BWS Orthodontic System showed in these two cases and in many cases treated by the authors is an excellent means to produce arch development in both upper and lower dental arches in a short time.

The effect of the BWS Orthodontic System on arch development does not change the inter-maxillary relationship when a Class I occlusion exists at the beginning of treatment. However, when a Class II malocclusion, associated to a crowded dentition is present, the BWS Orthodontic System produces arch development and, at the same time, the mandibular relocation effect is produced by the Trainer (Usumez, 2004; Ramírez-Yáñez, 2005a; Quadrelli, 2002), which treats the distal position of the mandible.

Additionally, the BWS Orthodontic System may be used to improve the overjet and overbite but to maintain them when they are correct at the beginning of treatment. This system treats muscular dysfunctions that may be the cause of crowding and malocclusion and may cause relapse after treatment is finished.

Thus, the BWS Orthodontic System may be proposed as an excellent alternative form of treatment in those cases where arch development is required to align teeth, patients want to minimize or even avoid brackets and extractions, the mandible needs to be relocated, soft tissue dysfunction is present and treatment needs to be performed in a reasonable period of time.

Conclusions

Maxillary and mandibular expansion has been shown to be an excellent alternative to increase the arch perimeter and, thus, to avoid the need for extractions to properly align teeth. This paper has presented two cases treated using the BWS Orthodontic System, which involves the combination of two appliance systems: the Trainer, a pre-fabricated functional appliance; and the BWS.

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References


About the authors

CHRIS FARRELL, BDS, graduated from Sydney University in 1971 with a comprehensive knowledge of traditional orthodontics using the BEGC technique. Through clinical experience, he took an interest in TMJ/TMD disorder and, after further research, Farrell discovered that the etiology of malocclusion and TMJ disorder was myofunctional, contradicting the current views of his profession. Farrell founded Myofunctional Research Co. (MRC) in 1989 and has become the leading designer of intra-oral appliances for orthodontics, TMJ and sports mouthguards.

GERMAN O. RAMÍREZ-YÁÑEZ, DDS, PhD, is a dentist from Colombia (South America) with more than 20 years of experience in guiding craniofacial growth and development. He is a specialist in pediatric dentistry (Mexico) and functional maxillofacial orthopedics (Mexico and Brazil), and is trained in orthodontics (Mexico). Ramirez has a master’s in oral biology and a PhD in dental sciences (Australia). He has published more than 20 articles about early orthodontic treatment and about craniofacial biology in peer-reviewed international journals.

‘The simple nature of the BWS makes it possible to assemble in-house, avoiding the fees that accompany laboratory-constructed appliances.’
OrthoVOICE 2012 on slate for October

Enhanced social events and a focus on presenting outstanding clinical and entrepreneurial ideas in a fresh environment have attendees and the event organizers preparing for another dynamic ‘social meeting’ experience at the OrthoVOICE 2012, which takes place Oct. 11–13 at Paris & Bally’s Resort in Las Vegas.

Leading off with an entertaining and educational talk with Dr. Lyde Johnston, OrthoVOICE attendees are in for a wild ride of mind-stretching ideas for practice growth, according to organizers.

With a unique take on building the speaker lineup and creative social events, OrthoVOICE is set to be orthodontics’ most innovative and socially interactive meeting of the year, its organizers say.

“For OrthoVOICE, it’s about education, fun and giving back,” according to the event organizers.

Plan to attend the meeting’s second charity golf event on Thursday morning, Oct. 11. This year’s event will be held at Desert Fines Golf Club to benefit Smile for a Lifetime Foundation ($41). The $229 registration is open online at www.orthovoice.com and includes a donation to $41, breakfast and lunch, round-trip transportation, green fees, carts and range balls.

To learn more about the full range of events and lectures at OrthoVOICE 2012, visit www.orthovoice.com.

Twelve C.E. credits are offered and doctor/team registration is only $399 per person, through Sept. 30. Registration is open now at www.orthovoice.com.
ClearCorrect reaches new milestone
with charitable clean water project

ClearCorrect, a leading manufacturer of clear aligners, recently reached a milestone in its charitable project, Phase Out. Since the launch of its first initiative with "charity: water" (phase out unsafe drinking water) on Jan. 1, ClearCorrect has raised more than $60,000, which will help about 3,000 people gain access to clean and safe drinking water.

Of the $60,000 raised so far, $36,555 has been allocated to funding the first five projects with charity water in the Democratic Republic of the Congo. The funding will help create spring protections, rainwater catchments and large-scale gravity-fed water systems that will have dozens of distribution points to serve a large population. These projects are planned for a mix of villages, schools and clinics with a strong focus on hygiene, sanitation training and community buy-in to ensure sustainability and prevention of water-borne diseases.

"It is hard to believe that there are still people out there that don’t have safe drinking water. Phase Out is an amazing effort and an amazing project, and I’m proud to be a part of it," said Dr. Annette Murphy, ClearCorrect provider. When asked how long the company intends to run the Phase Out project, Jarrett Pumphrey, ClearCorrect CEO, responded, "For as long as we can make a difference.

To see the video, please visit www.clearcorrect.com/phaseout.

About ClearCorrect
ClearCorrect works with more than 11,000 clinicians, making it a leading manufacturer of clear aligners. The company offers an affordable and doctor-friendly approach, including a phase-based system to enhance flexibility and control for clinicians. For more information, visit www.clearcorrect.com or call (888) 331-3323.
Creating a win-win in the changing landscape of orthodontic treatment

By Davin Bickford, VP for practice development, WildSmiles Braces

Today, braces are a must-have for tweens and teens. The fact that getting braces is a big step, and often daunting for most kids, can easily get lost in the conversation. Statistics from many of the industry’s leading organizations show that providing treatment focused on patient participation and “buy in” leads to happier and more compliant patients throughout treatment.

Take, for example, your expectation for personal life outside of orthodontics. Society demands a choice in the cars we drive, clothes we wear and shoes we sport. Everyone desires to be different and unique. Body art and piercing have become more and more popular in the past decade and are prime examples of societal beliefs to be different and unique.

In orthodontics, it is important to create a win-win experience for the patient and the practice. Popular choices of mini twins, clear brackets, WildSmiles Braces and clear aligners are an expression of these societal beliefs taking hold in orthodontic treatment. Just like Nike, Lexus, Louis Vuitton, Walt Disney or Titleist, you are an orthodontic brand in your community. These brands have learned how to create a win-win experience for their customers, offering options that create customer loyalty and brand ambassadors. The company wins through brand loyalty and referrals. The customers win because they have choice to build a customized user experience with a quality brand. Simply, they get what they want!

You are a service provider, and you should be exploring every opportunity to build your brand as the go-to practice. This is only achieved through offering options that create win-win experiences, thus creating positive brand ambassadors. Patients seek out the opportunity to customize and participate in their treatment in a caring, full-service environment.

Imagine going to a high-end car dealer and being told the features you desire (leather seats, CD or DVD player, etc.) were not available. Additionally, the salesperson suggests the base model offered on the lot should sufficiently meet your needs. While it might meet your need, getting you from point A to point B, choosing the base model is not what you desired. This experience almost definitely would encourage you to continue your search for your next new car, right?

Well, the patient expectation for his or her orthodontic experience is no different from this scenario. In the new economy, consumers demand options, such as clear braces. WildSmiles Braces and clear aligners. As a service provider, you must be willing to create these win-win situations. Offering these options in your practice does not cost you anything but gives you the ability to meet customer expectations and create brand loyalty. It’s a win-win.

Brands offering great customer experiences and a wide variety of choice seldom worry about cost on the front end, often sparing little expense to enhance the customer experience. These investments allow the brand to charge higher prices for products, retain a higher percentage of customers and facilitate greater customer loyalty and referrals.

Orthodontic customer expectations and demands are changing with the new economy. What kind of brand are you building in your community? Are you cultivating a win-win experience by offering your patients a variety of choices with a full-service experience?

To learn more, visit wildsmilesbraces.com or call (402) 334-7171.

WildSmiles offers unique options for children and adults. (Photo/Provided by WildSmiles Braces)

WildSmiles offers unique options for children and adults. (Photo/Provided by WildSmiles Braces)
Edge management, imaging and communication system from Ortho2 — it’s all you really need

Edge from Ortho2 delivers the ideal all-encompassing practice management, imaging and communication system with robust features, unmatched capabilities and integrated programs — all supported by the industry-leading Ortho2 customer service team, the company said.

Ortho2 Edge provides secure cloud computing technology, an offsite data hosting system that replaces your onsite network servers. This feature allows you to fully access your secure web-based data infrastructure from anywhere, even tablets and smart phones. Now used by more than 100 orthodontists, Edge features innovative imaging, reminders, patient education animations and more.

Edge Imaging is one of the most robust imaging technologies available today, the company said. With an intuitive interface, comprehensive features and easy functionality, Edge Imaging can help efficiently manage all of your patient image files. It includes features such as card flow presentation, drag-and-drop layout customization, unlimited undo and redo, silhouette image alignment and much more. Edge Imaging can be used with all Ortho2 management systems, with other management systems or by itself. Premier Imaging is an optional upgrade for Edge Imaging and includes comprehensive image morphing, cephalometric analysis and Bolton Standards.

Edge Animations is a set of powerful patient education animations for improved compliance and case presentation. Edge includes a set of patient compliance animations at no charge and an optional extended set of treatment-based animations. With Edge Animations, you have the ability to easily edit and customize videos, including surgical and 3-D animations, using annotation and audio controls. Virtually any image or movie can be included with drag-and-drop capabilities. Give patients, responsible parties and referrers access to your videos with ease through disc, e-mail or YouTube.

Edge Reminders is an easy-to-use, efficient system for automating your patient reminders via phone, text and/or e-mail. Phone messages are delivered with a human voice. Patient responses automatically appear as icons in the scheduler. Edge Reminders is cost effective with a low, flat fee and no minimum monthly charge. Edge Reminders is available for Edge and ViewPoint users.

Edge Portal adds online account access to appropriate information for you, your patients, responsible parties and consulting professionals from any computer, tablet or smartphone. You can view or schedule appointments, view patient information or quickly and easily access treatment chart data and much more, all from Edge Portal. Optionally, accept credit card payments that are automatically posted for you.

The Edge system also includes comprehensive features such as dynamic dashboard and widget library, smart scheduler, workflows, online forms, edge reports, electronic insurance and much more. Edge is compatible with PCs, Macs or a mixed environment and can even support multiple monitors for a power user.

One Edge user, Dr. Andy Trosien (Tracy, Calif.), says: “The Edge software system is a true revelation in orthodontic practice management software. The system features all of the imaging and communication features, financial applications and practice tools that can help any practice thrive. It’s simple to install and easy for the staff to learn, and Ortho2’s customer support is absolutely amazing. Switching to Edge was an easy decision — it’s everything I need to take my practice to the next level.”

About Ortho2

For more than 30 years, Ortho2 has designed, developed and provided all software and services exclusively to the orthodontic market. Nearly 1,700 orthodontists have discovered Ortho2’s software, effective conversion process, quality training, industry-leading support and optional equipment services. Discover the Ortho2 difference for yourself. Discover Edge.

For more information, contact Ortho2 at (800) 678-4644, sales@ortho2.com, or www.ortho2.com.
After having radically transformed dental restorations, the CAD/CAM revolution is finally reaching the orthodontic market. 3Shape, a world leader in digital dentistry, is bringing its technology and development power to the orthodontic market with a digital-age solution for orthodontic labs and clinics.

Ortho System™ brings together accurate 3-D scanning, archiving, intuitive treatment planning and analysis, efficient patient management, communication tools and appliance design — all providing streamlined workflows that increase efficiency and productivity for labs and practices, the company said.

The introduction of 3Shape’s TRIOS intra-oral scanner marks a new era for digital orthodontics. This ground-breaking technology offers a more productive, accurate and comfortable way to capture the patient’s impressions at the start of or during the orthodontic treatment, while reducing chair time compared to traditional impression taking.

Digital study models captured with the TRIOS, or with 3Shape’s R700 desktop 3D scanner, become ready for further processing and manufacturing in 3Shape’s Ortho System thanks to tight scanner and software integration. With Ortho-Analyzer, orthodontists can perform full treatment planning and fully customized analysis protocols, using advanced 2-D and 3-D tools.

Simulation of extractions, interproximal reductions, full treatment planning with detailed movement overview and realistic virtual articulators are all possible in a very user-friendly environment, the company said. Full analysis or validation protocols, such as PAR or ABO, can also be implemented, allowing consistent and more efficient workflows. The unique insight provided by 3-D study models make the assessment of treatment results both easy and accurate.

Design is the first complete digital toolbox dedicated to all types of orthodontic appliances. A host of intuitive and accurate tools enables users to create even the most demanding designs. Appliances such as nightguards, retainers, customized bands, splints, surgical bites, palatal expanders, bionators, Twin blocks, Herbst appliances, Planas tracks and much more, can easily be created on screen and made ready for computer-driven manufacturing.

Appliance Designer’s open STL format guarantees complete freedom of choice in relation to materials and 3-D-driven equipment, such as 3-D printers or milling machines. 3Shape’s solutions also allow full integration and file preparation for the equipment chosen. All tools and design parameters can be combined in any way, and these can be stored as reusable and unique workflows to ensure consistency and efficiency. A tight integration between the treatment planning tools in OrthoAnalyzer and the use of realistic virtual articulators allows optimal CAD design and maximum efficiency of the orthodontic treatment, the company said.

3Shape Ortho System is the only fully integrated CAD/CAM system dedicated to orthodontics, which allows full freedom of choice in terms of equipment, material and manufacturing partners — thanks to its open format. It is easy and fast to transfer digital files, and the communication tools offered by 3-D study models enable tighter cooperation between orthodontic professionals.

The applications of CAD/CAM in orthodontics offer a host of new opportunities for more efficient treatments and follow-up. The technology also enables improved communication between orthodontists, technicians and patients, higher accuracy and repeatability, better control of costs and material consumption, and increased patient comfort. Through improved consistency and efficiency in manufacturing, CAD/CAM technologies allow the orthodontic professional to concentrate his or her resources on value-adding activities.

For more information, visit www.3shape.com.
What is OrthoVend?

The OrthoVend is a fully automated inventory system that is small enough to fit on just about any counter. It can hold a month's worth of inventory and it will automatically reorder product once it reaches a pre-designated reorder point that you (the doctor) has set.

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