

An introduction to

RMO[®]

rocky mountain[®] orthodontics

and its first 75 years

Dentistry Through the Ages of Man

All the world is a stage,
 And all the men and women merely players;
 They have their exits and their entrances,
 And one man in his time plays many parts,
 His acts being seven ages. At first the infant,
 Mewling and pushing in the nurses arms.
 Then the whining school-boy, with his satchel
 And shining morning face, creeping like snail
 Unwilling to school. And then the lover,
 Sighing like furnace, with a woeful ballad
 Made to his mistress' eyebrow. Then a soldier,
 Full of strange oaths, and bearded like the pard,
 Jealous in honor, sudden and quick in quarrel,
 Seeking the bubble reputation
 Even in the cannon's mouth. And then the justice,
 In fair round belly with good capon lined,
 With eyes severe and beard of formal cut,
 Full of wise saws and modern instances;
 And so he plays his part. The sixth age shifts
 Into the lean and slipper'd pantaloon,
 With spectacles on nose and pouch on side,
 His youthful hose, well saved, a world too wide
 For his shrunk shank; and his big manly voice,
 Turning again toward childish treble, pipes
 And whistles in his sound. Last scene of all,
 That ends this strange eventful history,
 Is second childishness and mere oblivion,
 Sans teeth, sans eyes, sans taste, sans everything.

—William Shakespeare (from his play, *As You Like It*)

In Europe it was not until the 1800s that there was any significant vision of the importance of dentistry for mankind. A few hundred years earlier, Shakespeare, one of the most intuitive champions of human life and history missed it. World famous artists celebrated human beauty, but never showed the teeth of their subjects.

Centuries ago in different parts of the world, dental health/aesthetics was already in the minds of some primitive health care pioneers. This is a subject Dr. Jorge Fastlicht of Mexico City, a second generation orthodontist, could discuss at length because his father did much research on the dental health archetype of the ancients in Mexico.

In North America, orthodontics as a specialty began in the early 1900s. It grew with the help of supporting businesses such as S.S. White, Williams Gold, Aderer Gold, Dee Company, Baker Gold Company, Ney Gold, and a number of laboratories.

Idea exchanges between dentists and commercial resources contributed to advancements. The S.S. White Company with Dr. Angle as an orthodontic consultant was probably the largest orthodontic supply company in America.

While orthodontists have always been interested in a variety of methodologies, the dominant trend in North America seemed to be focused on fixed appliances.

At about the same time in the early 1900s, Europeans were advancing a variety of orthodontia. For example, Dr. Pierre Robin of France was a general physician. Dr. Robin was, and still is, considered by many to be one of the most important influences in the development of orthodontics, especially Early Treatment Orthodontics™.

As a general physician, Dr. Robin was concerned with the medical problems of children, especially problems of breathing, growth, development, function, and facial appearance. He saw these as inter-related medical problems needing various kinds of orthodontic treatment.

Are not today's American educational movements toward combined medical/dental degrees *Robin-esque*?

Chrome alloy (stainless steel) was developed in England. Dr. Sheldon Friel of the United Kingdom and Dr. Lucien DeCoster of the Netherlands had experimented and applied spot welding and stainless steel in their orthodontic practices.

Soon, thousands of miles away in America, an article appeared in *Mosby's International Journal of Orthodontia and Dentistry for Children*. The Mosby article reported on the European spot welding and stainless steel appliances. There were some American orthodontists who were interested but there was no one with knowledge or experience to help.

It has been said that a lot of business is accomplished on a golf course; so it was with Rocky Mountain Orthodontics. One Sunday morning, Dr. Archie Brusse happened to remark to his golfing foursome that his profession involved as many interesting challenges as golfing. He mentioned being interested in what stainless steel might do for dentistry. Dr. Brusse added that he was having trouble getting technical information to learn, and special material to do more.

By coincidence, the brother-in-law of one of the golfing foursome was a Vice President of American Steel & Wire Company. One of his responsibilities was to develop markets for stainless steel. Some time later, Dr. Brusse and the American Steel & Wire Company Vice President were introduced to each other. The two of them eventually developed a mutually advantageous working relationship.

In time, Dr. Brusse was personally assured by this Vice President that scientific information assistance, consulting contact, special small order runs, size and temper variations, and favorable personal payment arrangements for Dr. Brusse would be made.

This was an extraordinary beginning, but it also presented a lot of problems, as there was a serious economic depression. How could a miracle be pulled off? There was no capital, minimal technology, no plans, no products, no markets, and no sales. But miracles happen.

The first miracle was Jack Meehan. Jack was the son of Dr. J. E. Meehan, a dentist friend of Dr. Archie Brusse. Dr. Meehan grew up in Aspen and played Sunday baseball on the Aspen team against Dr. Brusse's Denver team.

While attending Regis College in Denver, Colorado, young Jack worked as a part-time Lab Technician for Dr. Brusse. After he graduated, he was hired as a full-time mechanic assistant at a gas station. After working only one month, Jack was dismissed. The station owner felt that because economic times were hard, there were other families who needed the paycheck more than Jack and his family.

Jack had been one of Dr. Brusse's favorite patients. After Jack was dismissed from the gas station, Dr. Brusse decided to hire him as a full-time Lab Technician. Dr. Brusse perceived that Jack was a "natural" for what might lie ahead in orthodontics.

During this time there were a number of significant dental developments beginning to surface. Some of the things that influenced the future of Dentistry and Orthodontics were:

- Dr. Oppenheim's findings on "osteoblast/osteoclast" bone biology and tooth movement
- Dr. Fitzgerald Longcone and his x-ray successes
- In Europe, Dr. Paul Simon's cephalometric development was the first system to link dentistry and orthodontics to anthropology through head and model analysis and photographs
- RMO developed small spot welders and pre-fabricated chrome alloy appliance systems

RMO's first system was unveiled in 1933 at an AAO meeting in Oklahoma City. While there was much interest shown, only one order was taken.

The order was from Dr. Emily Hicks of Corpus Christie, Texas. Jack Meehan and others associated with RMO were excited and encouraged by the questions that were asked at that AAO meeting. While the Oklahoma City meeting was considered a sales disaster, it was believed that the questions and comments indicated RMO was "on track" for an exciting, important, and successful future.

Upon their return to Denver, Dr. Brusse and Jack contracted with Mr. Francis Goddard, a small machine shop entrepreneur. This collaboration would help RMO move into special developments suggested by the American Steel & Wire Company, and would require an expanded work force.

The next employee was Harry Wolf, a recent graduate from Manuel High School in Denver. After realizing RMO's growing technical needs, Harry recommended Thayer (Bay) Brunson. Harry thought Bay was a genius and felt he would be an excellent addition to RMO. Dr. Brusse and Jack soon hired Bay.



Bay Brunson
RMO's most tenured employee still consults to this day.

Bay indeed was a genius with an uncanny ability to envision the unlimited possibilities of developments within orthodontics. He was willing to learn and do whatever was asked of him, no matter how menial the projects assigned. Bay enjoyed the challenge of offering creative insights and solutions to problems he saw.

Shortly thereafter, Fred Launder joined the team as a machinist/die-maker, and Rosalie Lightsey became the company's first secretary. The team's growing success was expanding into further product developments and educational seminars when most U.S. commerce was interrupted by W.W.II.

RMO experienced modest adjustments during the war, and many key staff members were called to duty. The company ultimately prevailed however, with service-people returning to work and support RMO as it entered the prosperity of the post-war boom and the decades that followed.

From the company's inception, Dr. Brusse's goals for RMO emphasized Evidence Based Interceptive Pediatric Orthodontics. (See Dr. Archie Brusse's original article from 1935 on the following pages.) That philosophy continues within RMO to this day.

RMO supports evidence based protocols and health sciences, and these principles are reflected in our services and products. We believe this approach will benefit both our customers and their patients. As a veteran manufacturer, RMO sees evidence based treatment and support as being the formalization of four levels:

- **Level I** – Ideas, concepts, theories
- **Level II** – Objective evidence from successful clinical results experienced by the originator
- **Level III** – User groups a documentation using the product or service
- **Level IV** – University verification

Looking forward, RMO's vision of providing Synergistic System treatment solutions continues. RMO believes it is imperative that our industry consider treatment solutions outside of the traditional doctrine of limitations. RMO's philosophy has always been in support of objective clinically proven time-tested concepts and systems, but we also believe it extremely important to consider innovative concepts and techniques from clinical inventors. These alternative developments often compliment conventional techniques while offering unique solutions that are not necessarily in immediate acceptance by our industry. Progress requires progress, and RMO prides itself on an outstanding 75-year history of unconventional, yet extremely successful, alternative thinking.



B.A. Brusse
Barbara Anne Brusse

Martin Brusse
Martin Brusse

Martin and B.A. would like to thank all of the RMO team members, customers, and business partners for their loyalty, friendship, and dedication. Their many contributions have served RMO and helped the advance of orthodontic health.



Since the beginning, RMO has led an international presence in the orthodontics community, shipping our first overseas order to the P. Grant Smith Dental Company in South Africa in the late 1930s. With respect to our foreign efforts, we must extend extraordinary credit to Bay Brunson, Martin Hamilton, Sam Bulkley, Lynn Turner, Eric Burrows, and B.A. Brusse for their significant contributions. RMO has been awarded twice with the President's distinguished E-Star Award for Exports by the U.S. Secretary of Commerce "For continued outstanding contributions to the Export Expansion Program of the United States of America." Today, RMO has over 60 dealers in Africa, Asia, Australia, Europe, Japan, Mexico, the Middle East, and South America.

Many of RMO's great developmental strengths come from our valued relationships in which we exchange oral health concepts, innovations, and educational information. RMO is supported by RMO Europe as our subsidiary in Strasbourg, France, and privileged in partnership with RMO/Morita as our joint venture in Japan.

Combined, this network allows RMO to service our customers around the world with progressive Synergistic System treatment solutions.

Orthodontics as an Aid to the Rhinologist*

Archie B. Brusse, D.D.S., Denver, Colorado

Mosby's International Journal of Orthodontia and Dentistry for Children
July 1935, Pages 646-648

The size and shape of the nasopharyngeal cavity are determined to a great extent by the form of the surrounding bony structure. In Bacher's¹ study of the evolution of the human face he states that "often the nasal septum, unable to accommodate its height to the practically unyielding floor and roof, follows the lines of least resistance and buckles."

Schuller² of Vienna shows that anomalies of the shape and size of the epipharynx arise through congenital or acquired deformities of the base of the skull. He cites a number of cases of shortening of the vertical diameter caused by the change in shape of the cranial base. An eight-year-old boy had been under rhinologic treatment since early infancy because of difficult nasal respiration. Adenoids was first thought of as the cause of the obstruction, and repeated adenoidectomies failed to give any relief. Roentgenologic examination of the nasopharynx was made. The film showed an abnormality of the shape of the cranial base. The deformity of the nasopharyngeal cavity as a result of this was of such a degree that there was absolutely no air space between the nasal cavity and the nasopharynx.

It is natural for the orthodontist to assume that the reverse is true, i.e., anomalies of shape and size of the nasopharyngeal cavity arise through congenital or acquired deformities of the maxillary arch causing impingement of the structures lying between the two fixed planes, the cerebral fossa above and the roof of the mouth below. Especially is this true of the high narrow maxillary arch of the mouth-breathing type.



In the cases reported by Schuller of impaired breathing the patients had received the usual rhinologic treatment for several years before it was discovered that the deformity of the base of the skull was the cause.

Is it not possible that the rhinologist is slighting the possibility of malocclusion as an attributing factor in many cases of mouth-breathing and sinusitis?

Review the history of your treated cases of extreme distocclusion with protruding maxillary incisors, short upper lips, mouth-breathers, and a general lack of muscle tone. Study the models and note the narrow maxilla and the mesiodistal relation of the arches. Extreme effort must be exerted to close the lips to effect normal breathing. Examine the models of the finished case. The arches have been expanded from one-half to three-quarters of an inch, and the distal relationship has been corrected, the final photograph shows the lips in contact without effort, and normal breathing established. Then ask yourself, "Are you an aid to rhinologic treatment?"

The rhinologist cannot correct mouth-breathing in cases of this type, and if abnormalities of this class are not treated orthodontically, proper aeration is lacking, with a possibility of later sinusitis.

*Presented to the American Board of Orthodontia

It is universally agreed by rhinologists that the requisites for the preservation of healthy sinuses are proper aeration and ample drainage. The most that the sinusologists can hope for in the treatment of early sinus disease is to accomplish Nature's purpose by the simplest possible method, and that is to establish ventilation and drainage.

The orthodontist has been helping the aeration of the nose for years. He was unaware of this accomplishment, since all he was interested in was the malposition of the teeth.

Today there is a plea for more conservatism in sinus surgery. Dean³ states, "We no longer look at a patient as one who must be operated upon; rather we are devoting all our efforts to remove the cause and produce a more desirable result, or we think of other procedures, radium, x-ray, ultraviolet ray, in our effort to secure for the patients the best possible result with the least danger." Dean does not mention orthodontia as an aid, nor can I find orthodontia mentioned in the literature of laryngology or rhinology.

Metzenbaum in describing his technique for correction of dislocation of the septal cartilage stresses the importance of correcting the deformity early rather than waiting until the nose is entirely developed. He further states that "I believe we should correct this type of nasal deformity at an earlier age than we have been used to doing in the past, as proper aeration should be established before the nose and sinuses have reached the height of their development."

Should these young patients be operated on or should orthodontia treatment be instituted?

Regardless of the lack of evidence, rhinologists insist that blows or falls are the common causes of earliest deflected septums. Mosher⁴ says, "When the eruption of one central incisor is delayed, it causes a deformity or hypertrophy of the premaxillary wing above it. This results in septal distortion with a resultant convexity to the opposite side."

I have a case similar to that reported by Mosher, which was successfully treated orthodontically. A boy of nine years presented extreme Class II, Division I malocclusion (Angle's classification). The maxillary right first incisor erupted two years before the left incisor. The child was a habitual mouth-breather, with a short upper lip and chronic sinusitis. The case was corrected with an Oliver progressive guide plane with finger springs for expansion. Mouth-breathing was corrected, and the boy was taught forced breathing through the nose. The physician in charge agrees that there is a marked improvement in the boy's sinus condition, which we attribute to aeration.

The rhinologists are perplexed with the problem of sinus infection which the following confession of A. W. Proetz⁵ of St. Louis admits: "We know discouragingly little about sinuses, and only exert a feeble influence upon their welfare. We know, in a word, that a sinus is an air cavity communicating with the nose; that it is capable of infection and that when its ventilation and drainage are impaired trouble ensues. We know in a general way what are the symptoms of such infections and blockades, and too often we are mistaken even in these. We have devised dozens of more or less ingenious ways of opening these cavities all for one purpose—to let out infectious material; which sums up virtually the whole of sinus surgery, and cannot be considered a step ahead of the elementary surgical principle of draining an abscess anywhere in the body, as practiced by the ancients. Our treatment plays a pathetic role in the process of repair which Nature institutes and effectively pursues. There are many exceedingly elementary matters about sinuses of which we know very little. To begin with, we do not know why they exist at all.

The rhinologist acknowledges the difficulty in successfully treating sinus infections; and as aeration is a requirement for healthy sinuses, it presents an opportunity for the orthodontist again to advance the thought that breathing spaces within the nose can be increased by correcting certain types of malocclusion. If orthodontists can present proof of this accomplishment, orthodontia will be welcomed as an adjunct to rhinologic practice.

I am presenting an old subject under new conditions. Teeth are now being moved in a different manner. The gentle pressures are almost physiologic in their action, and muscle function now plays an important role in treatment; and, if used as advocated by Homer B. Robison, proper aeration can be established, that is, proper functioning of the following muscles: levator labii and naris muscles, alien cartilage, and the muscles of the lips.

We can all report numerous cases showing improvement in oral and nasal functions, but the rhinologist will doubt our reasoning without positive proof.

I should like to have this paper act as a challenge for someone better equipped to establish the relationship of orthodontia to the specialties of otology, rhinology and laryngology.

Conclusions

1. The surrounding bony structures form the size and shape of the nasal cavity.
2. The base of the skull and the roof of the mouth are unyielding, and the septum buckles.
3. The size and shape of the base of the skull cause deformities in the nasopharyngeal cavity which interfere with nasal respiration.
4. Anomalies in the shape of the roof of the mouth should cause deformities in the nasopharyngeal cavities.
5. Delayed eruption of one incisor causes premaxillary irregularity and septal deviation.
6. Aeration is a requisite for healthy sinuses.
7. Sinus infection presents a perplexing problem to the rhinologist.
8. Orthodontia treatment is indicated in many cases of sinusitis to correct mouth-breathing.

References

- ¹Briggs: *Evolution of the Human Face*
- ²Schuller, Arthur: *X-ray Examination of Deformities of the Nasopharynx*
- ³Dean, Lee Wallace: *Recent Advances in Otolaryngology, Medical and Surgical Treatment*
- ⁴Mosher, H. P.: *The Influence of the Premaxillae Upon the Form of the Hard Palate and Upon the Septum*
- ⁵Cryer, M. H.: *Internal Anatomy of the Face*, Philadelphia, Lea & Febiger
- ⁶Schaeffer: *Development of the Human Palate*

This article was copied from the original by Archie B. Brusse, published by the *Mosby's International Journal of Orthodontia and Dentistry for Children*, July 1935.

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diagnostics



A lone sailboat ventures out... nothing ventured, nothing gained. RMO loves sailing.

The Mountain Scenery divider pages of this RMO, Inc. catalog separate our many products and services. On the backs of these pages, we share with you a few interesting notes, quotes and anecdotes.

Notes, Quotes and Anecdotes

America's formal "Mission Statement" is spelled out in the Declaration of Independence, Constitution and Bill of Rights.

The following Quotations reflect Americas' history and spirit. They suggest that the high roads of the past could be the high roads of the future.

"Personal and economic freedoms are not free, a freedom must be learned, cherished and perpetuated from generation to generation. America is a business of the personal and economic Responsibility of individuals."
—Herbert Goldhamer, *How to show*

"I never believe that a world could come out of the world, indeed that is the only way."
—Miguel de Cervantes

"Admire the virtues of the time, the arch within the life of a man, the temple of life, the line of age of our duty."
—Cicero



Computerized DATA services (RMODS)

Rocky Mountain Orthodontics Data Services (RMODS) is the world leader in providing computerized orthodontic diagnosis. We have analyzed over 600,000 cases. RMODS has helped thousands of clinicians determine the best treatment plan possible, based on the complexities of each individual patient.

Key components of the service:

- Comprehensive cephalometric analysis (frontal and lateral)
- Individualized norms based on age, gender, and race
- Tracing of lateral and frontal x-rays
- Arch analysis of upper and lower dentition
- Airway analysis
- Visual Treatment Objective (VTO) (short and long term)
- Treatment design
- 3rd molar probability
- Treatment sequences worksheet
- Height prediction
- Long range growth simulation to maturity with and without treatment
- Alerts including TMJ awareness, excessive mandibular growth, and endo-chronological problems
- 33 different letters are generated for extreme or unusual situations



RMO's E-Cephalometrics®, or E-CEPH® (computer-aided orthodontic data service via the internet) is the most cost effective, complete, and accurate orthodontic diagnostic service in the world.

- E-Ceph is like having an in-office diagnostic system and the best trained staff without the overhead
- RMODS has over 200 years of combined staff experience working for you
- Surgical treatment design is available
- Free telephone and online support
- View sample cases at www.rmortho.com or call 800.458.8884 for more info



There are two easy ways to access this service:

E-Ceph online service

- Practice transmits digital/scanned records via the internet
- RMODS processes records according to the doctor's individualized treatment standards
- RMODS transmits diagnostic work-up back to doctor via the internet
- Records can be shared with other dental/health professionals electronically
- Records can be stored, archived electronically, and printed
- Records can be viewed on screen or printed for patient/parent consultation
- Records can be shared with insurance companies electronically for faster reimbursement

Mail-in and mail-back service

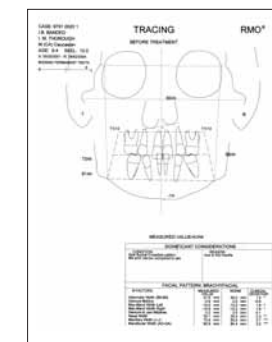
- Doctor sends records by mail
- RMODS processes records according to the doctor's individualized treatment standards
- RMODS sends diagnostic work-up back to doctor by return mail
- Records can be shared with other dental/health professionals by mail or in person
- Records can be mailed to insurance companies

Comprehensive Cephalometric Description

- This report is generated for lateral and frontal x-rays
- Over 100 measured factors are evaluated and printed with norms and clinical deviation based on patient's age, sex, and race
- Orthodontic-dental-skeletal relationship is reported, including soft tissue and airway analysis

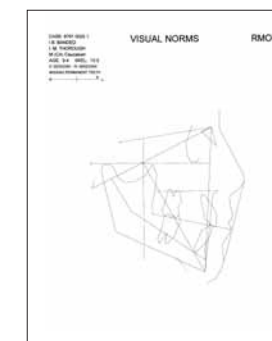
Tracing Sheet

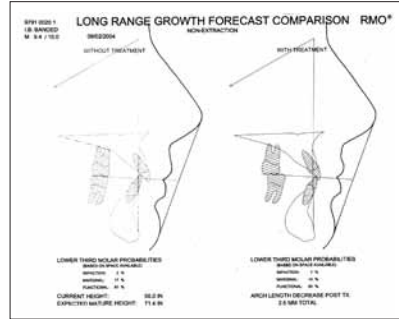
- Lateral and frontal tracing
- The most popular analyses (Ricketts®, Jarabak, Steiner, Sassouni, Downs and Grummons)
- Significant Considerations, which is a summary of the patient problem based on over 200 digitized anatomical points



Visual Norms

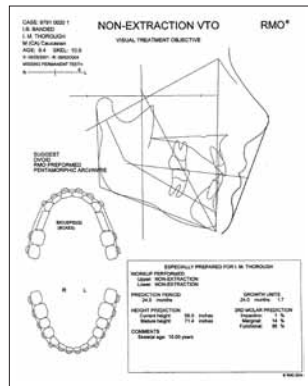
- Visual norm is an individualized computer composite of a normal population selected by age, gender, and race, adjusted for size
- Visual norm enables the practice to visualize a patient's abnormalities by superimposing an image on the tracing





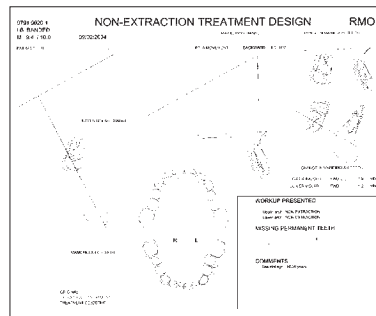
Growth Forecast to Maturity

- Growth forecast to maturity with and without treatment are displayed
- Expected profile, skeletal development, and dentition are evaluated
- 3rd molar space analysis and expected space available
- Patient height to maturity is estimated
- This display is the most effective communicator for patient presentation, and answers the following questions:
 1. What happens if I am not treated?
 2. What if I am treated?
 3. Will I outgrow the problem?
- Emphasizes long term treatment plan instead of two year short term plan



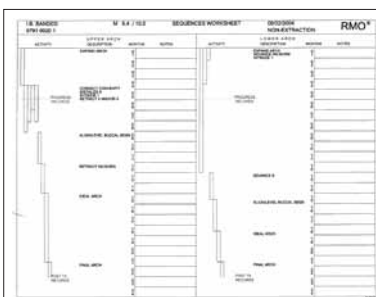
Visual Treatment Objective (VTO)

- An individualized post-treatment goal
- Takes into account the existing skeletal morphology, limitation of skeletal change, expected growth, occlusal function, aesthetics, arch form, crowding, doctor's treatment philosophy and mechanics, extraction or none, and treatment stability



Treatment Design

- Shows the tooth and skeletal changes required to achieve the Visual Treatment Objective



Sequence Worksheet

- This is a tool to aid the practice in developing a written treatment plan
- This tool combined with documentation allows the practice to track how treatment is progressing at any time

Packages

PD	Primary Dentition Diagnostic Package (no arch required)	
D1	Comprehensive Package	Lateral x-ray and lower arch impression required
F1	Functional Application Package	There is no additional charge for submitting a frontal x-ray
SP	Surgery Package	Facial photos are optional. A pan-oral x-ray helps us better analyze a case
VP	Visual Package (frontal at extra charge)	Wrist film and upper arch impression are encouraged (w/additional charge)
27	Preetermined Arch Length Package	Lateral x-ray is required with ALD and leeway space
31	Progress Tracing and CCD	
32	End of Tx Tracing and CCD	Lateral x-ray is required
33	Retention Tracing and CCD	The case has been previously processed by RMO
34	Post Retention Tracing and CCD	

Referral packages

64	Patient/Parent	
65	Interprofessional	D1 Comprehensive Package
66	ENT	

To order any of the following services, you must order a Tracing and CCD in addition to any items listed in the center column. You must send a lateral x-ray and any materials listed in the right column.

TO ORDER:	ORDER ALSO:	SEND ALSO:
03 Lower Arch Length/Arch Form Analysis	—	Arch Impression
04 VTO Discrepancy	Arch Analysis, VTO	Arch Impression or Arch Length
05 Tx Design	Arch Impression, VTO	Arch Impression
06 Long Range Growth Forecast Comparison	Arch Impression, VTO	Arch Impression
07 Sequences Worksheet	Arch Impression, VTO, Tx Design	Arch Impression
08 Visual Norms	—	—
10 Skeletal Age/Wrist Film Evaluation	—	Wrist x-ray
11 Steiner Analysis	—	—
29 Steiner Tracing	Steiner Analysis	—
12 Downs Analysis	—	—
13 Short Range Forecast w/o Tx	—	—
14 Jarbak Analysis	—	—
16 Upper Arch Analysis	Arch Analysis	Arch Impression, Upper Arch Impression
17 Long Range Forecast w/o Tx	—	—
18 Surgery Workup	Arch Analysis, Visual Norm	Arch Impression
19 Functional Appliance Workup	Arch Analysis	Arch Impression
20 Pre-Ortho Referral Analysis	Arch Analysis, VTO	Arch Impression
21 Mini	Arch Analysis, VTO, Tx Design	Arch Impression
26 Post Tx Forecast	Arch Analysis, VTO Arch	Impression

firstphase

Freedom is not free... it must be recognized, used and perpetuated for future generations.



A black and white photograph of a mountain range with snow-capped peaks. In the foreground, a horse is grazing on a grassy slope. The background shows a valley with dense vegetation and more mountains in the distance.

Notes, Quotes and Anecdotes

"All we have of freedom—all we see or know—this our fathers bought for us, long, long ago."

—Rudyard Kipling (1899)

"The march of Providence is so slow and our desires so impatient, the work of progress is so immense and means of aiding is so feeble, the life of humanity is so long, that of the individual is so brief, that we often see only the ebb of the advancing waves, and become thus discouraged. It is history that teaches us to hope."

—C. S. Lewis (1952)

"Those who cannot remember the past are condemned to repeat it."

—George Santayana, *Reason in Common Sense* (1899)

"Few things are impossible to diligence and skill."

—Samuel Johnson (1759)



Kussick Orthopedic Incline®

The Kussick Orthopedic Incline is for the early correction of deep bites and deep bites with overjets. It achieves any or all of the following:

- It relocates the mandible forward in retrognathic cases
- It retracts the maxillary and bimaxillary protrusions as the mandible is relocated forward
- It brings about the formation of the labial anterior mandibular alveolar bone as it increases arch length
- The opening of the bite enables the buccal alveolar bone and the bicuspids of the mandible to rise and the maxillary arch to drop down. Thereby, the Curve of Spee is leveled and the vertical dimension is corrected

	Order Number	Package Contains
Kussick Orthopedic Incline®	J00710	
The Kussick Orthopedic Incline package contents are:		
• Kussick Orthopedic Incline		1
• Light Cure Rope Material		1
• Appliance Case		1
• Instructions Patient/Clinician		1
Kussick Orthopedic Incline® 5-Pak	J007105	
The Kussick Orthopedic Incline 5-Pak package contents are:		
• Kussick Orthopedic Incline		5
• Instructions – Patient		5
• Instructions – Clinician		1



Kussick Tongue Retainer

The Tongue Retainer efficiently corrects and controls tongue thrusting, thumb sucking and lip habits. It functionally closes anterior open bites and reduces accompanying overjets. The Tongue Retainer applies to all of the following treatment considerations:

- It retrains the tongue to stay in it's biological position during swallowing
- It allows the upper anterior teeth and alveolar bone to be located downward and forward

	Order Number	Package Contains
Kussick Tongue Retainer	J00730	
The Kussick Tongue Retainer package contents are:		
• Kussick Tongue Retainer		1
• Light Cure Rope Material		1
• Appliance Case		1
• Instructions		1
Kussick Tongue Retainer 5-Pak	J007305	
The Kussick Tongue Retainer 5-Pak package contents are:		
• Kussick Tongue Retainer		5
• Instructions – Patient		5
• Instructions – Clinician		1

Kussick Introductory Kit

The Kussick Introductory Kit package contents are:



	Order Number	Package Contains
• Kussick Orthopedic Incline®	J00710	2 pkg
• Kussick Tongue Retainer	J00730	2 pkg
Kussick Introductory Kit	K00753	1



Kussick Rapidly Adjusted Headgear System

The Kussick Rapidly Adjusted Headgear System consists of the Kussick Head Gear and the Kussick Facebows. It carries the anterior alveolus posteriorly as a unit. It reduces overjet, maxillary expansion, and arch length for Class II Div 1 cases with deep or anterior open bites. The result is a flattening of the labial protrusive bone. The "internal labial arch" of transeptal collagen fibers can be used to move areas containing teeth and bone. The anterior roots and crowns are up-righted and retracted. The premaxillary bone is remodeled distally but without impacting second molars. The Kussick Rapidly Adjusted Headgear System eliminates overjet while expanding the entire maxillary arch with stability (up to 10mm in the 1st molar and 5mm in the cuspid region) without using cumbersome Rapid or Palatal Expansion (RPE) appliances. The Kussick HeadGear's unique force indicator is calibrated with pre-set precision, coded adjustments to allow slow to rapid buildup of forces.

Kussick Facebow

Size	Order Number	mm	Package Contains
1	J01260	85	1
2	J01261	90	1
3	J01262	95	1
4	J01263	100	1
5	J01264	105	1

(measurement from mesial end of headgear tubes)

Kussick Elastic Activated Headgear



Order Number	Pad Length	Package Contains
J01279	203mm	1
J01280	229mm	1
J01281	254mm	1

Multi-S™ – Multi-Start Appliance

Ideal for children between 4 and 8 years old, the appliance reduces the muscular forces and promotes proper alignment of the teeth. One size fits all and easily adjustable to each patient.



Order Number	Package Contains
J00805	1 each
J00806	5 each

Multi-T® – Multi-Trainer Appliance

A pre-orthodontic treatment appliance designed to improve facial and dental development in children (mixed dentition) and reduce problems associated with: swallowing, thumb sucking, tongue thrusting, labial dysfunction, respiratory problems.



Order Number	Package Contains
J00800	1 each
J00801	5 each

Multi-TB™ – Multi-Trainer for Brackets

Suitable for both children and adults wearing brackets. One size fits all, easily adjustable to each patient.



Order Number	Package Contains
J00990	1 each
J00991	5 each

Multi-P® – Multi-Positioner Appliance

The Multi-P guides erupting teeth with the help of the patient's own muscle forces to an ideal position in the dental arches. A good occlusion is established and development of severe malocclusions avoided. The appliance has a high and low model. The high model, designed for the treatment of open bite cases, has a thickened molar region. Measurements are from left side to right side between lateral and cuspid.



Low Model		High Model		Maxillary Measurement (mm)	Mandibular Measurement (mm)
Size Number	Part Number	Size Number	Part Number		
10	J00810			24.8 -25.9	18.8 -19.5
15	J00815			26 -27.1	19.6 -20.3
20	J00820	20	J00920	27.2 -28.3	20.4 -21.1
25	J00825	25	J00925	28.4 -29.5	21.2 -21.9
30	J00830	30	J00930	29.6 -30.7	22 -22.7
35	J00835	35	J00935	30.8 -31.9	22.8 -23.5
40	J00840	40	J00940	32 -33.1	23.6 -24.3
45	J00845	45	J00945	33.2 -34.3	24.4 -25.1
50	J00850	50	J00950	34.4 -35.5	25.2 -25.9
55	J00855	55	J00955	35.6 -36.7	26 -26.7
60	J00860	60	J00960	36.8 -37.9	26.8 -27.5
65	J00865	65	J00965	38 -39.1	27.6 -28.3
70	J00870	70	J00970	39.2 -40.3	28.4 -29.1

Multi-P® Sizer

Order Number
J00980

Without changing your chosen technique, RMO® 3D® 1st Phase FIXED/REMOVABLE™ Modular Orthodontics® (Wilson®) can help your practice target treatment planning decisions to reduce treatment time and cost, and to improve patient comfort and cooperation. This will result in build-up of your practice.

All principles have been proven through successful usage for many decades. What is new and unique is the way the principles were engineered by Dr. William Wilson and Dr. Robert Wilson into an easy-to-use plug-in, plug-out system of 12 modular options. Over 100 different 1st Phase treatment movements can be achieved with minimum appliances and maximum patient comfort and satisfaction.

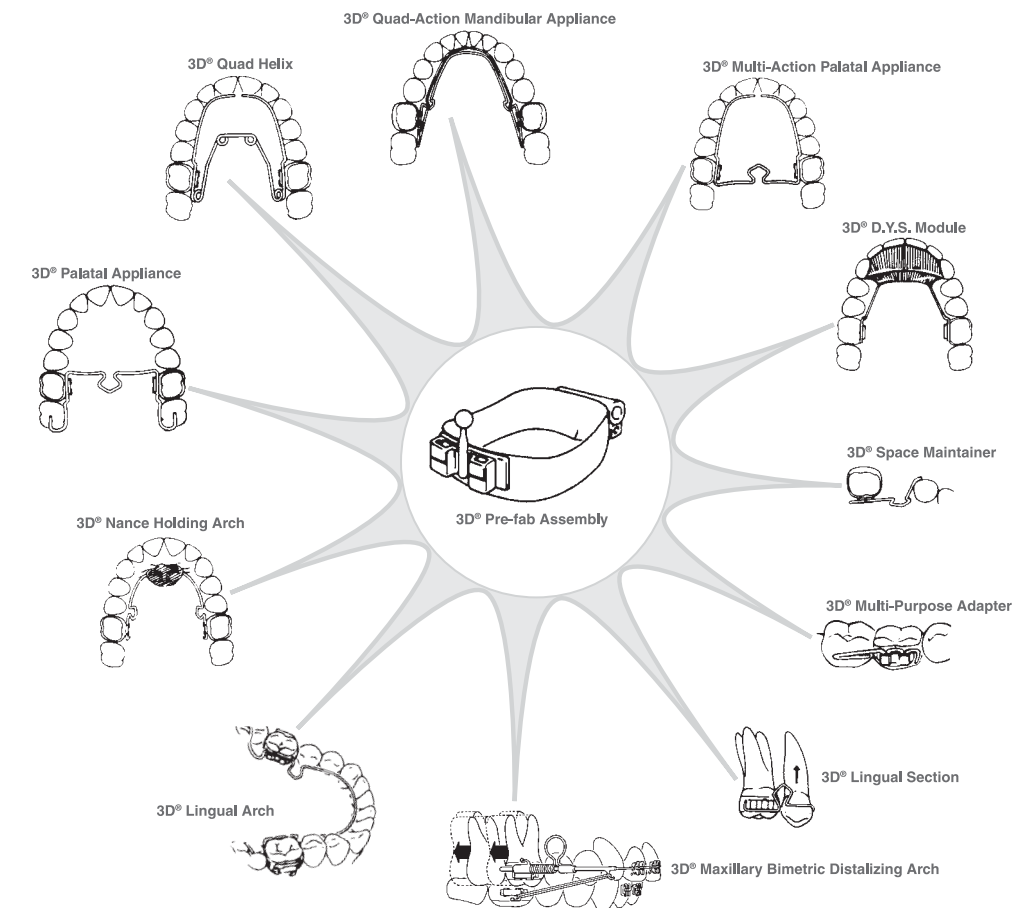
The 3D Lingual Arch System (Wilson) is the result of four decades of lingual arch use, analysis and research, change and experimentation. All types of non bracket lingual appliances and molar band/tube fixations were evaluated. Different orthodontic mechanical needs and possibilities were considered. The originators, Dr. William Wilson and Dr. Robert Wilson were also concerned with

harmonious lingual arch usage with various types of fixed and removable techniques.

In perspective, the 3D FIXED/REMOVABLE System (Wilson) should be considered as a comprehensive appliance supplementing system; it is a "tool box" of options. The numerous 3D options help you add to the effectivity of the appliances you have chosen to deal with your diagnosis and treatment plan. Also, it is important to note that each 3D module is a subsystem by itself. That is, each has specific areas for use and each has numerous supplementing options.

While a 3D Lingual Arch can be cut in half and used with acrylic to make a Nance Holding Appliance for maxillary arches, this 3D Lingual Arch is designed primarily for mandibular arches. The same is true for the 3D Quad-Action Mandibular Appliance.

3D Lingual appliances for the various maxillary arch needs are: the 3D Palatal Appliance, 3D Multi-Action Palatal Appliance and the Quad Helix.



Like most things found in the dental profession, successful use depends upon understanding and development of skills. The following are educational materials and services.

Basic Textbooks: By Dr. Robert Wilson and Dr. William Wilson

Book 1 Enhanced Orthodontics

This book reviews basic concepts and describes how the different modules affect 100 different 1st Phase treatment movements. Twenty case histories are described and documented. 435 pages, 700 illustrations.

Order Number **P00040**

Book 2 Enhanced Orthodontics: 3D® Multi-Directional Force Systems Fabrication

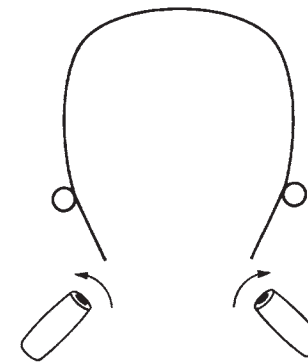
This laboratory manual illustrates and describes step-by-step how the 3D® Modules are adapted and used. It is a "how to" book on making modular appliances.

Order Number **P00042 - available for Website download only**

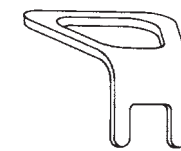
3D® Wilson® Toolbox

The Wilson Toolbox contains an assortment of the most popular sizes of appliances conveniently packaged to begin using the system.

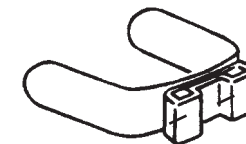
	Order Number	Kit Components		
3D® Wilson® Toolbox	K00850	A04303	3D® Lingual Arch Size 4	1 each
		A04304	3D® Lingual Arch Size 5	1 each
		A04305	3D® Lingual Arch Size 6	1 each
		A04157	3D® Maxillary Bimetric Distalizing Arch Size 3	1 each
		A04158	3D® Maxillary Bimetric Distalizing Arch Size 4	1 each
		A04159	3D® Maxillary Bimetric Distalizing Arch Size 5	1 each
		A04310	3D® Quad Helix Size 3	1 each
		A04311	3D® Quad Helix Size 4	1 each
		A04312	3D® Quad Helix Size 5	1 each
		A04322	3D® Multi-Action Palatal Appliance Size 3	1 each
A04323	3D® Multi-Action Palatal Appliance Size 4	1 each		
A04324	3D® Multi-Action Palatal Appliance Size 5	1 each		
	F00125	Elgiloy® Coil Spring 5mm		10 each
	F00126	Orthonol® Coil Spring 5mm		10 each
	A04315	3D® Wilson® Lingual Tube		20 each
	I00505	3D® Lingual Arch Selector		1 each
	I00507	3D® Maxillary Bimetric Distalizing Arch Selector		1 each



To correct upper molar rotations so 3D® Bimetric Distalizing Arch will fit into buccal tube.



3D® Transfer Insert



3D® Transfer Lingual Tube

3D® Transfer System

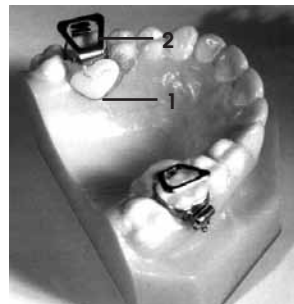
The key to in-practice and laboratory 3D® Appliance processing.

- Preformed bands with 3D Lingual Tubes and buccal tubes with .045" or .051" headgear tubes of your choice are fitted and cemented.
- If molars are rotated, making it difficult for 3D Maxillary Bimetric Distalizing Arches to be fitted into the headgear tubes, adjust as follows:
 - Form an .018" molar rotating arch with horizontal helices just anterior to the "toed-in" headgear tube. Bend the distal ends of the arch wire to accomplish the desired rotations so the posterior sections can be easily placed into the headgear tubes.
 - Tie-in arch wire. When molars have rotated as desired, remove the arch wire. You are now ready to employ the 3D Transfer System.

3D® Transfer System

	Order Number	Package Contains
3D® Transfer Insert	A04198	10
3D® Transfer Lingual Tube	A04199	10

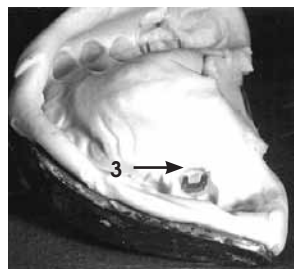
- Reduces time consuming laboratory related procedures.
- Laboratory impression can be taken during active treatment. (No need to stop treatment.)
- Laboratory can produce very accurate FIXED/REMOVABLE™ appliance.
- A time/cost saver. Excellent for in-practice and outside 3D laboratory appliance fabrication procedures.



Office Procedures

RMO® TruForm Molar Bands, prewelded with buccal tubes and 3D® Lingual Tubes have been cemented in place on the patient.

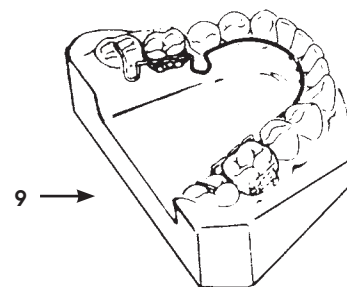
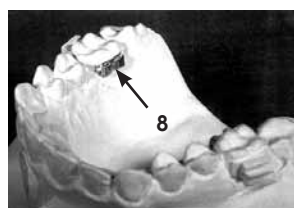
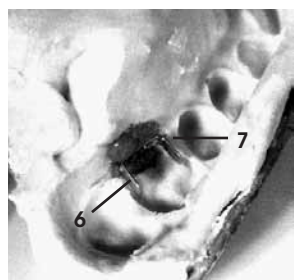
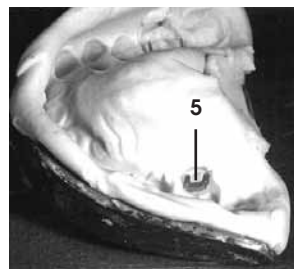
1. The 3D Lingual Tubes are covered with wax.
2. Insert the 3D Transfer Inserts into the 3D Lingual Tubes. The posts are designed as loose-positioning posts for the 3D Transfer System, and not as the friction-fit posts in the 3D appliances.
3. Take soft colloid impression and remove after setting. Note how the insert posts are protruding through the impression.
4. The impression is now sent to the laboratory for 3D appliance fabrication.



Laboratory Procedures

Doctor sends in an impression with 3D Transfer Inserts already in position.

5. With scalpel, remove 3mm of colloid, lingual to the posts, for seating clearance.
6. Seat the 3D Transfer Lingual Tubes on the protruding posts. If necessary, contour the retaining tabs of the 3D Transfer Tube to insure retention in the stone model.
7. Add sticky wax over the 3D Lingual Tubes and fill the space between the tubes and colloid.
8. Pour with stone and separate. The 3D Transfer Lingual Tubes will be accurately positioned and securely attached to the stone model.
9. Proceed to fabricate the 3D appliance on the stone model.
10. With knife, remove the 3D Transfer Inserts from the colloid. Also, remove the 3D Transfer Lingual Tubes from the stone formed for future reuse or retain in stone model for future 3D modular components.
11. For commercial laboratories, send the finished 3D appliance to the doctor on the stone model for reference.



3D® Lingual Tube (Wilson®)

The key to the 1st Phase System (Wilson) is the 3D Lingual Tube. All 3D lingual modules plug into these tubes. They are available with and without prewelded hooks. They can be purchased separately or as a preweld on RMO TruForm Molar Bands.

- New, improved "click-fit" assures positive post seating

	Order Number	Package Contains
3D® Lingual Tube	A04315	10
3D® Lingual Tube with Gingival Hook	A04314	10

3D® Buccal Tubes (Wilson®) - Maxillary

The 3D Wilson Maxillary Double Buccal Tubes are available in -6° Distal Offset. These tubes are designed .018" x .030" (.457mm x .762mm) and .022" x .030" (.559mm x .762mm) arch slots. Edgewise arch slot and an extra long extended gingival .045" (1.143mm) round headgear tube to help prevent tipping of the molar when distalizing.

The -6° DO tube is produced as an integrated one-piece design, utilizing state-of-the-art Metal Injection Molding (MIM) manufacture. The rectangular tube is approximately 2mm shorter than the headgear (round) tube, to increase the inter-tube distance with the 2nd molar. The rectangular tube is convertible, with an integrated tie wing design. It is available with a hook.

		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	Package Contains
		.018 (.457mm)		.022 (.559mm)		
With Hook	R	A08260	A04360	A08262	A04362	10
	L	A08261	A04361	A08263	A04363	10

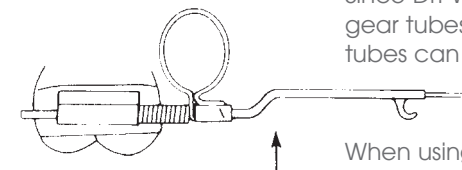
3D® Buccal Tubes (Wilson®) - Mandibular

The 3D Wilson Mandibular 1st Molar Tube consists of two rectangular arch slots with mesial hook. The reduced friction slot reduces corner drag when using square or rectangular wire. Smooth buccal surface; no sharp edges for patient comfort. Increased mesial distal length for increased control.

		Order Number		Package Contains
		.018 (.457mm)	.022 (.559mm)	
With Hook	R	A04370	A04372	10
	L	A04371	A04373	10

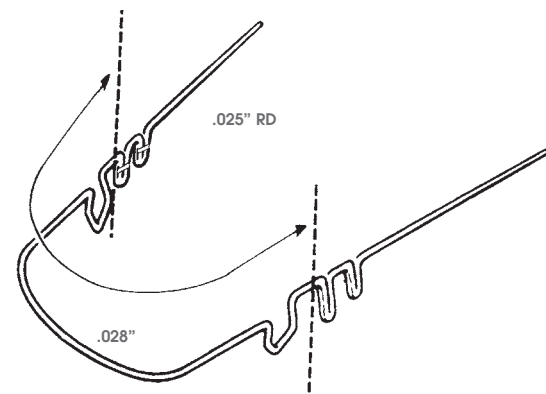
Buccal Tubes

Since Dr. Wilson recommends the use of buccal tubes with gingivally placed .045" head gear tubes, other buccal tubes of various fixed appliances with occlusally placed headgear tubes can be successfully used with 3D® Maxillary Bimetric Distalizing Arch procedures.



When using 3D Maxillary Bimetric Distalizing Arches with .045" or .051" occlusally placed buccal tubes, it is necessary to adjust the distal buccal section of the arch. A step up bend is made anterior to the Omega Stop assembly. This enables the distalizing elements to function in the occlusally placed tube while the anterior elements of the arch are properly aligned with anterior brackets.

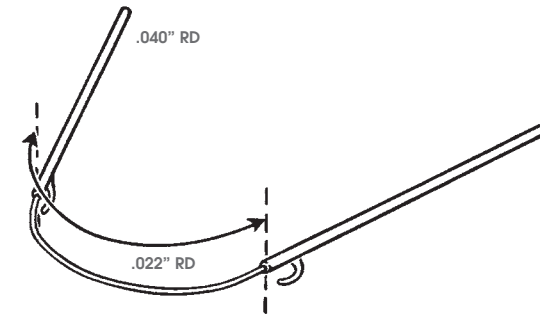
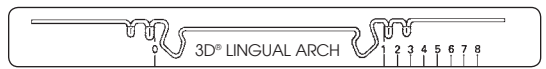
RMO now has buccal tubes and tube variations for all popular techniques. If your practice is interested in incorporating selected 3D 1st Phase FIXED/REMOVABLE™ (Wilson®) options into your treatment regimens, it is easily done. Just order 3D Lingual Tubes and your preferred buccal tubes prescription welded to RMO TruForm Molar bands.



3D[®] Lingual Arch

- Easy vertical placement and removal
- Mandibular anchorage
- Holding arch for extraction and non extraction cases
- Mandibular arch length increase, including slight molar distalization, one side at a time
- Lower molar rotation, torquing and tipping
- Second molar control

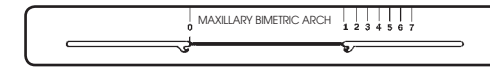
Size	Order Number	Package Contains	Kit Contains
1 - 51mm	A04300	3	2
2 - 54mm	A04301	3	3
3 - 57mm	A04302	3	4
4 - 60mm	A04303	3	6
5 - 63mm	A04304	3	6
6 - 66mm	A04305	3	4
7 - 69mm	A04306	3	3
8 - 72mm	A04307	3	2
Assorted	K00760	-	30
3D [®] Lingual Arch Selector	i00505	1	



3D[®] Bimetric Arch (basic)

- For making a 3D Maxillary Bimetric Distalizing Arch
- Same as 3D Maxillary Bimetric Distalizing Arch plus special applications in unilateral distalization

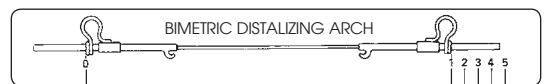
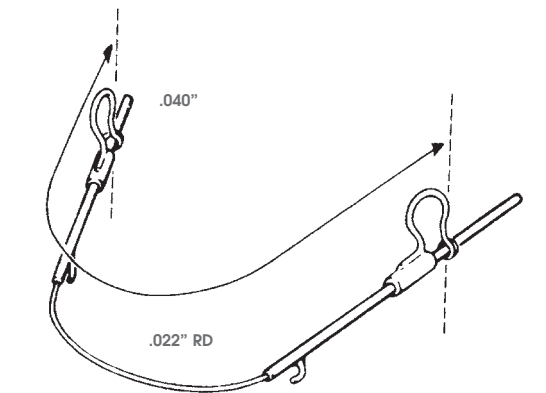
Size	Order Number	Package Contains	Kit Contains
1 - 40mm	A04127	3	1
2 - 43mm	A04128	3	2
3 - 46mm	A04129	3	3
4 - 49mm	A04150	3	3
5 - 52mm	A04151	3	3
6 - 55mm	A04152	3	2
7 - 58mm	A04153	3	1
8 - 58mm	A04154	3	0
with extended section (6mm) each side			
Assorted	K00688	-	15
3D [®] Bimetric Arch Selector	i00506	1	



3D[®] Maxillary Bimetric Distalizing Arch

- Rapid molar distalizing (no headgear required)
- Rapid anterior retraction (no headgear required)
- Rapid anterior intrusion (no headgear required)
- Functional arch increase
- Release of post-lock mandible to allow forward growth

Size	Order Number	Package Contains	Kit Contains
1 - 80mm	A04155	3	1
2 - 83mm	A04156	3	1
3 - 86mm	A04157	3	2
4 - 89mm	A04158	3	3
5 - 92mm	A04159	3	3
6 - 95mm	A04160	3	2
7 - 98mm	A04161	3	2
Assorted	K00678	-	14



3D[®] Maxillary Bimetric Distalizing Arch Selector

i00507

1



Omega Adjustable Stop

- Crimpable .040 ID
- Use the i00548W modular Omega plier for adjustments

A04124 10



5mm Coil Spring

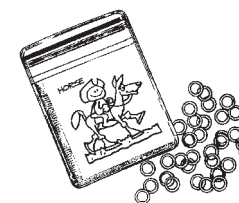
Open Elgiloy[®] coil spring. Does not require heat treatment percent. For use with Bimetric Distalizing Arch.

.010" x .045" x 5mm **F00125** 50

Open Orthonol[®] Coil Spring, constant force gradient of nickel titanium when distalizing (Schedule II elastics only).

.012" x .045" x 5mm **F00126** 10

Energy Pak™ Elastics



	Order Number	Package Contains (approximately)
Nonextraction cases		
5/16" 2 oz.	J01103	2,000
5/16" 3 oz.	J01113	2,000
Extraction cases		
1/4" 2 oz.	J01102	2,000
1/4" 3 oz.	J01112	2,000

Elastic Load Reduction Principle For the 3D[®] Maxillary Bimetric Distalizing Arch

SCHEDULE #1 (2 oz. elastics)

Used with:

- Flaring lower incisors
- Small mandibular roots

First	Second	Last
5 days of treatment use:	5 days of treatment use:	11 days or until next visit use:
3 - 2 oz. elastics	2 - 2 oz. elastics	1 - 2 oz. elastics

Using 2 oz elastics, three elastics should be used during the first five days, two during the second five days and one during the final eleven days of the treatment plan. Fresh elastics are applied daily. Elastics must be worn 24 hours each day between appointments, including during meals.

Use RMO[®] 5/16" 2 oz. elastics for non-extraction cases.

Order No. **J01103**

Use RMO[®] 1/4" 2 oz. elastics for extraction cases.

Order No. **J01102**

SCHEDULE #2 (3 oz. elastics)

Most common usage:

- Class II Div. 2
- Class II Div. 1 with closed bite
- Cases with steep cusps
- Adult cases

First 10 days of treatment use:	Until next visit use:
2 - 3 oz. elastics	1 - 3 oz. elastics

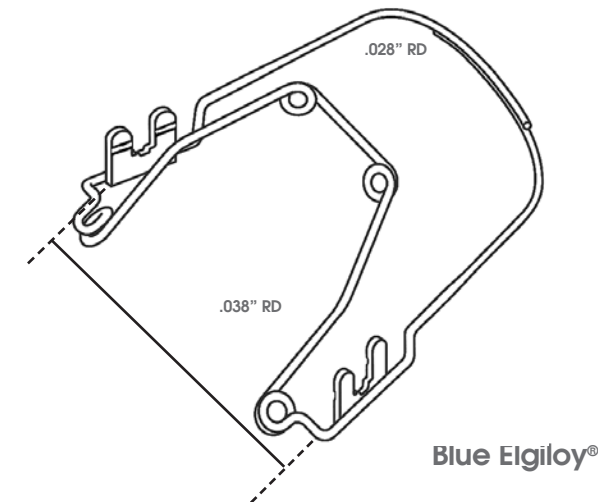
Two RMO[®] 3 oz. elastics used during the first 10 days. Then, one 3 oz. elastic is worn until next adjustment. Fresh elastics are applied each 12 hours and are worn 24 hours daily, including during meals.

Use RMO[®] 5/16" 3 oz. elastics for nonextraction cases.

Order No. **J01113**

Use RMO[®] 1/4" 3 oz. elastics for extraction cases.

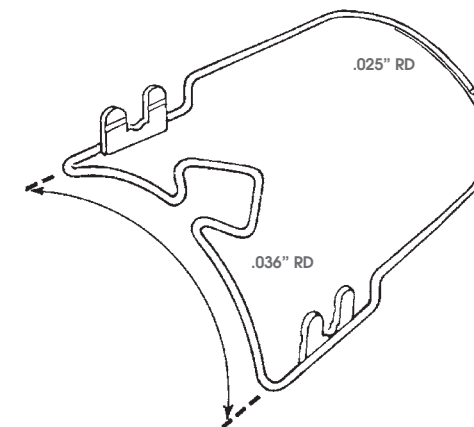
Order No. **J01112**



3D[®] Quad Helix

- Easy vertical placement and removal
- A single FIXED/REMOVABLE™ alternative to multiple removable appliances
- Bilateral molar expansion
- Bilateral maxillary arch expansion
- Molar rotation torquing and tipping
- Selective cuspid and bicuspid expansion
- Excellent for correcting cross bites in pediatric dental patients

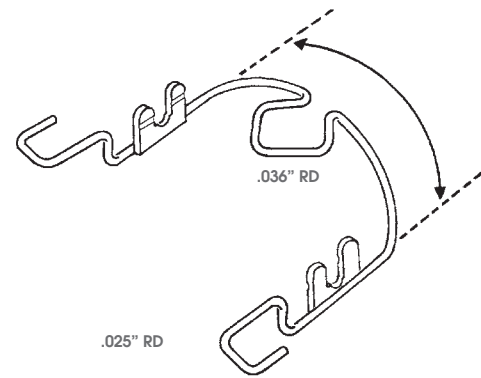
Size	Order Number	Package Contains	Kit Contains
1 - 25mm	A04308	3	1
2 - 27mm	A04309	3	1
3 - 31mm	A04310	3	1
4 - 34mm	A04311	3	1
5 - 37mm	A04312	3	1
6 - 40mm	A04313	3	1
Assorted	K00770	-	6



3D[®] Multi-Action Palatal Appliance

- Some clinicians have expressed a need for a less complex expansion appliance. This is the alternative to the Quad Helix
- Excellent for adult orthodontics
- Easy vertical placement and removal
- More than just a palatal arch
- A single FIXED/REMOVABLE™ alternative to multiple removable appliances
- Total maxillary arch expansion
- Selective cuspid and bicuspid expansion
- All major rotations, torquing and tipping

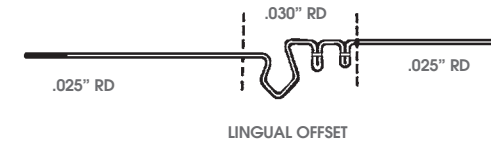
Size	Order Number	Package Contains	Kit Contains
1 - 32mm	A04320	3	1
2 - 36mm	A04321	3	1
3 - 40mm	A04322	3	1
4 - 44mm	A04323	3	1
5 - 50mm	A04324	3	1
6 - 56mm	A04325	3	1
Assorted	K00780	-	6



3D[®] Palatal Appliance

- Easy vertical placement
- Transpalatal arch
- Molar expansion or contraction
- High pull headgear control
- Molar rotation, torquing and tipping
- Molar expansion
- Palatal cusp intrusive action to offset extrusive action during high pull headgear usage

Size	Order Number	Package Contains	Kit Contains
1 - 32mm	A04330	3	1
2 - 36mm	A04331	3	1
3 - 40mm	A04332	3	1
4 - 44mm	A04333	3	1
5 - 50mm	A04334	3	1
6 - 56mm	A04335	3	1
Assorted	K00790	-	6



3D[®] Sectional

- Easy vertical placement and removal
- Impacted cuspid activator
- Simple expander
- Simple bicuspid space maintainer
- Simple bicuspid space regainer
- Cantilever resistor, molar tip-back resistor

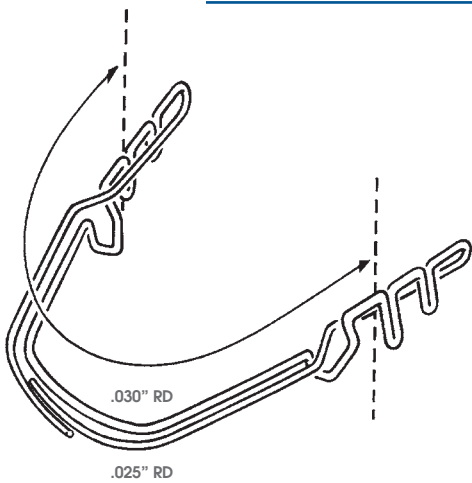
	Order Number	Package Contains
Maxillary Right/Mandibular Left	A04345	5
Maxillary Left/Mandibular Right	A04346	5



3D[®] Adapter

- Easy vertical placement and removal
- Simple space maintainer
- Mandibular molar tip-back resistor
- Maxillary molar tip-back resistor
- Cross elastic hook
- Simple expander

	Order Number	Package Contains
Maxillary Right/Mandibular Left	A04347	5
Maxillary Left/Mandibular Right	A04348	5



3D[®] Multi-Action Mandibular Appliance

- Easy vertical placement and removal
- Solves many problems for those using Crozat-type appliances
- Arch expansion
- Selective expansion
- Incisor advancement
- Slight molar distalization (one side at a time)
- Lower molar rotation, torquing and tipping

Size	Order Number	Package Contains	Kit Contains
1 - 51mm	A04340	3	1
2 - 54mm	A04341	3	1
3 - 57mm	A04342	3	1
4 - 60mm	A04343	3	1
Assorted	K00795	-	4

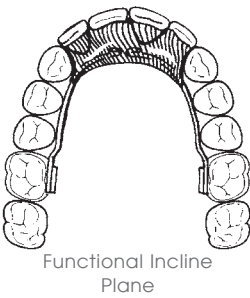
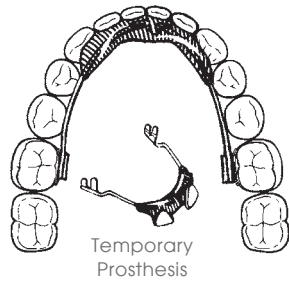
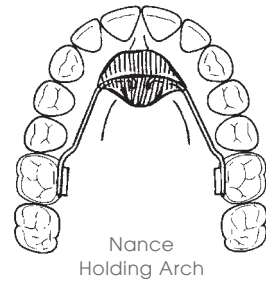


3D[®] Space Maintainer

- Easy vertical placement and removal
- Second bicuspid space regainer
- Temporary FIXED/REMOVABLE™ functional space maintainer/bridge

	Order Number	Package Contains
Maxillary Right/Mandibular Left	C00131	5
Maxillary Left/Mandibular Right	C00132	5

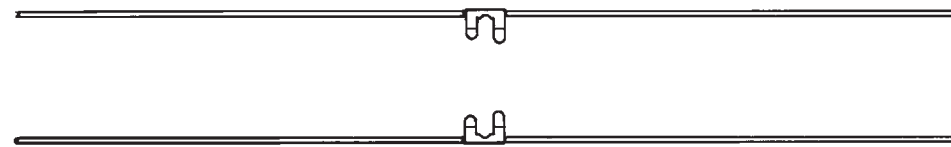




3D® D.Y.S. Module

- The 3D® D.Y.S. (Do-It-Yourself) Module (Wilson®) provides a basic module from which a variety of individual upper and lower FIXED/REMOVABLE™ can be fabricated. One unit is for upper right and lower left. The other unit is for upper left and lower right. The 3D D.Y.S. Module is available in .036" and .040" TRU-CHROME® Stainless Steel. All wire sizes are laser welded to the 3D® Posts, which plug into the 3D® Lingual Tubes. The many creative ways this 3D® Module can be used in individualized FIXED/REMOVABLE™ appliance construction are limited only by one's imagination
- Easy vertical placement
- Universal lingual attachment
- Multiple FIXED/REMOVABLE™ laboratory fabricated appliances to suit numerous individual needs

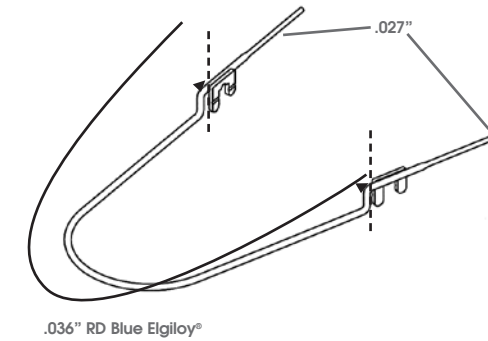
Size	Wire Size	Order Number	Package Contains
Maxillary Right/Mandibular Left	.036	A04350	5
Mandibular Right/Maxillary Left	.036	A04351	5
Maxillary Right/Mandibular Left	.040	A04352	5
Mandibular Right/Maxillary Left	.040	A04353	5



3D® Wilson®/Dillehay Lingual Arch - straight length

- .036" diameter Blue Elgiloy® (not heat-treated)
- Laser-welded posts
- Step down bends for proper positioning at cingulum

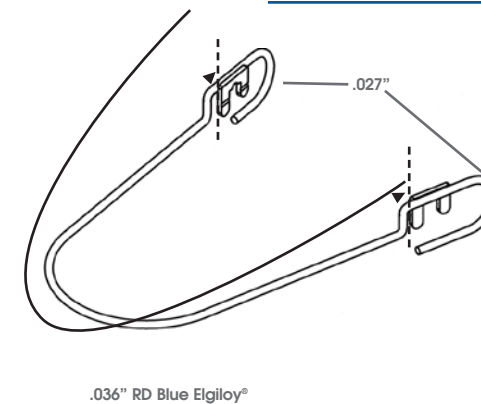
Size	Order Number	Package Contains
3 - 57mm	A04265	5
4 - 60mm	A04266	5
5 - 63mm	A04267	5
6 - 66mm	A04268	5
7 - 69mm	A04269	5
8 - 72mm	A04270	5
9 - 75mm	A04271	5
10 - 78mm	A04272	5



3D® Wilson®/Dillehay Preformed Lingual Arch - with distal extension

- .036" diameter Blue Elgiloy® (not heat-treated)
- Easy vertical placement and removal
- Distal extension for molar uprighting

Size	Order Number	Package Contains
3 - 57mm	A04278	3
4 - 60mm	A04279	3
5 - 63mm	A04280	3
6 - 66mm	A04281	3
7 - 69mm	A04282	3
8 - 72mm	A04283	3
9 - 75mm	A04284	3
10 - 78mm	A04285	3



3D® Wilson®/Dillehay Preformed Lingual Arch - with distal bend

- .036" diameter Blue Elgiloy®
- Easy vertical placement and removal
- Holding arch for extraction and non-extraction cases
- Lower molar rotation, torquing and tipping

Size	Order Number	Package Contains
3 - 57mm	A04252	3
4 - 60mm	A04253	3
5 - 63mm	A04254	3
6 - 66mm	A04255	3
7 - 69mm	A04256	3
8 - 72mm	A04257	3
9 - 75mm	A04258	3
10 - 78mm	A04259	3



Liberty Bielle™

The Liberty Bielle™, the newest addition to the RMO® Functional Education System, is a Herbst-type appliance. Its unique design allows it to rotate 360 degrees, maximizing lateral movement and providing comfort, flexibility for the patient, and treatment efficiency to the doctor.

The Liberty Bielle™ consists of an assortment of precisely engineered and manufactured components of the highest quality. These unique components increase the durability of the appliance by minimizing destructive lateral forces and allowing maximum movement of the mandible in many directions.

The Liberty Bielle™ is easy to adapt to any standard bracket and tube fixed appliance system. Combined with your edgewise therapy, multiple orthodontic and orthopedic objectives can be achieved simultaneously.



	Order Number	Package Contains
Upper Tube Rod	J01500	2 each/pk
Lower Rod	J01501	2 each/pk
Screw	J01502	10 each/pk
Screwdriver	J01503	1 each
1.5mm Activation Spacers	J01504	10 each/pk
4.5mm Pivots	J01505	10 each/pk
5mm Pivots	J01506	10 each/pk



Kits

Order Number	Package Contains
K01510	4 each: 4.5mm pivots welded to .036" Blue Elgiloy 2 each: Upper Tube Rod and Lower Rod 4 each: Screws
K01512	4 each: 4.5mm pivots 2 each: Upper Tube Rod and Lower Rod 4 each: Screws
K01511	4 each: 4.5mm pivots welded to .045" Blue Elgiloy 2 each: Upper Tube Rod and Lower Rod 4 each: Screws
K01513	4 each: 5mm pivots 2 each: Upper Tube Rod and Lower Rod 4 each: Screws



Mandibular prognathism exists in many children, and is often associated with maxillary insufficiencies.

Maxillary insufficiencies are conditions which embody maxillary brachygnathia, retrognathia and micrognathia; the causes of these disorders may be constitutional. However, according to Drs. Delaire and Verdon of France, most often the disorders (which are at the origin of a maxillary deficiency) are functional.

The Delaire Orthopedic Mask is an excellent appliance for intercepting and correcting diagnostically selected maxillary deficiencies of young patients. "Young" typically means from 3-1/2 to 4 years old or from the time when a double arch (lingual and labial) with bands can be used.



Orthopedic Face Mask (Delaire) Stainless Steel

- Excellent method for intercepting Class III cases caused by maxillary insufficiencies. Can modify orientation of the maxilla, in relation to the upper cranial implantation
- Can improve the growth of the anterior part of the maxilla
- Can cause mesial movement of the upper dento-alveolar arch, in relation to the maxillary base
- Can cause distal movement of lower dento-alveolar arch, in relation to mandibular base
- Heavy forces applied throughout treatment by elastics attached to anchorage points
- Made of .078" (1.98mm) wire and acrylic, set screws held in metal housing in acrylic parts. Vertical height adjustable to 13/16" (2cm)
- Elastics and wrench included



	Order Number	Package Contains
Standard size	J00410	1
Large size	J00411	1
Replacement elastics, 1/4", 32 oz.	J01182	2,000 approx.



after assembly

Space Maintainer Kit

An introductory space maintainer assortment. A starter kit with bands and space maintainers for banding maxillary and mandibular 6-year molars. Bands are provided in the size range most frequently used. Space maintainers can be joined to RMO bands.

Order Number	Package Contains
K00005	34 preformed seamless universal bands, 1 each of sizes 11 through 27, Max. and Man., 10 open end maintainers, 10 occlusal bar-type maintainers

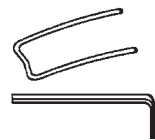


after assembly

Open End Maintainer

.040" (1.02mm) stainless steel

Occlusal bar-type



C00130	10
C00141	10

3D® Space Maintainer and Space Regainer (Wilson®) (Pat. 4,354,834)

Features:

- Plugs into 3D® Lingual Tube welded to molar band
- Effective in permanent and mixed dentition
- Positive space maintainer
- Adjustable for rapid second bicuspid space regainer
- Convertible to functional maintainer or temporary bridge by adding artificial tooth
- Removable
- Interchangeable with other 3D® Modules for active treatment with no band changeovers



Maxillary Right/Mandibular Left
Maxillary Left/Mandibular Right



Order Number	Package Contains
C00131	5
C00132	5

Muscle Anchorage Appliance (Denholtz)

- Preformed stainless steel
- .036" (0.914mm) arch wire
- .045" (1.143mm) buccal tube recommended
- Tissue compatible rubber shield with integrated coil spring
- Utilizes light continuous forces of lip muscles
- Helps regain lost space, minor uprighting, and develops lip musculature
- Can be used as a lip bumper



	Order Number	Package Contains
Maxillary	P00046	2
Mandibular	P00047	2
One each maxillary and mandibular	P00067	2

intraoral

extraoral

Mountain sunset, rocks and wildflowers in Colorado Rocky Mountains.





Notes, Quotes and Meditations

"To those of us who study history not merely as a warning reminder of man's follies and crimes, but also as an encouraging remembrance of generative souls, the past ceases to be a depressing chamber of horrors—it becomes a celestial city, a spacious country of the mind, wherein a thousand saints, statesmen, inventors and philosophers still live and speak, teach, carve and sing."

—*Will and Ariel Durant, The Lessons of History (1968)*

"'Tis our true policy to steer clear of permanent alliances with any portion of the foreign world."

—*George Washington (1796)*

"I deem the essential principles of our government (to be) peace, commerce and honest friendship with all nations, entangling alliances with none."

—*Thomas Jefferson (1801)*

"So high is grandeur to our dust, so near is God to man when duty whispers low, 'Thou must,' the youth replies, 'I can.'"

—*Ralph Waldo Emerson (1863)*

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ENERGY PAK™ ELASTICS

- Superior quality, pure latex (contains natural rubber latex which may cause allergic reactions)
- Precision cut provides consistent forces
- Three types available: general purpose, cuspid-to-cuspid, and extra oral
- Wide size selection permits precise degree of control
- Packaged in illustrated zip-lock bags for dispensing convenience—(approx. 2,000 elastics)
 - J01100-J01144, J1400-J1409: 100 elastics per bag; 20 bags to each package
 - J01156-J01185: 50 elastics per bag; 40 bags to each package
- Excellent resistance to fluid absorption

Force Values		1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	
Ounce pull equals three times slack diameter										
		0.32cm	0.48cm	0.64cm	0.79cm	0.95cm	1.27cm	1.59cm	1.90cm	
General Purpose										
Light	57 gm (2 oz.)	 parachute J-01100	 hang glider J-01101	 balloon J-01102	 dirigible J-01103	 helicopter J-01104				
Medium	85 gm (3 oz.)		 motor home J-01111	 truck J-01112	 train J-01113	 monorail J-01114				
Heavy	99 gm (3.5 oz.)	 surfboard J-01120	 canoe J-01121	 sailboat J-01122	 speedboat J-01123	 submarine J-01124				
Heavy Plus	128 gm (4.5 oz.)		 motorcycle J-01131	 race car J-01132	 car J-01133	 snowmobile J-01134				
Extra Heavy	142 gm (5 oz.)		 skate board J-01141	 unicycle J-01142	 bicycle J-01143	 jogging J-01144				
Cuspid to Cuspid										
Light	57 gm (2 oz.)							 skating J-01156	 snow shoeing J-01157	
Heavy	99 gm (3.5 oz.)							 toboggan J-01166	 snow skiing J-01167	
Extraoral										
Light	454 gm (16 oz.)	 bus J-01171	 ocean liner J-01172	 jumbo jet J-01173	 spaceship J-01174	 rocket J-01175				
Heavy	908 gm (32 oz.)	 rickshaw J-01181	 horse J-01182	 chariot J-01183	 covered wagon J-01184	 stage coach J-01185				

Note on Extraoral:
To achieve ounce pull, two elastics must be used.

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BULK ELASTICS, ENERGY CHAIN™



Bulk Elastics

- Finest quality latex surgical tubing (contains natural rubber latex which may cause allergic reactions)
- Top performance, fatigue life and force reliability
- Uniform precision cut for size and dimension
- May be used as separating elastics prior to band fitting

Inch	Size (mm)	Medium	Heavy	Package Contains
1/8"	(3.18)	J00129		approx. 2,000
3/16"	(4.76)	J00130		approx. 2,000
1/4"	(6.35)	J00131	J00134	approx. 2,000
5/16"	(7.94)	J00132	J00135	approx. 2,000



Plastic Pocket Containers

- Zippered polyethylene bag
- Elastic placement diagram on package
- Convenient pocket-size dispenser

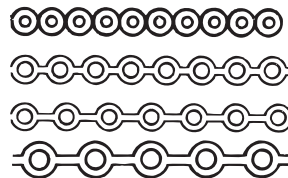
Order Number	Package Contains
J00092	100

Energy Chain™ Elastics

- Tough and tasteless, non-toxic, non-staining, more consistent force delivery
- Easy-handling dispensing spools
- Spacing variation between modules allows proper selection, retraction, ligating, maxillary/mandibular/interarch application, etc.
- Available in clear, gray and an assortment of popular colors
- Package of one spool contains seven feet, six inches (2.3m)



	Clear	Gray	Blue	Green	Red	Purple	Package Contains
Closed	J00120	J00166	J00223	J00227	J00231	J00235	1 spool
Reduced	J00269	J00270	J00271			J00274	1 spool
Narrow	J00121	J00167	J00224	J00228	J00232	J00236	1 spool
Medium	J00122	J00168					1 spool



	Orange	Porsche Red	Black	Light Pink	Yellow	Package Contains
Closed	J00239	J00261	J00263	J00265	J00267	1 spool
Reduced		J00276	J00277			1 spool
Narrow	J00240	J00262	J00264	J00266	J00268	1 spool

Energy Chain™ Dispenser

- Organize the various colors and sizes of the Energy Chain spools
- Tinted plastic with a removable crossbar rod and sliding lid
- The Energy Chain is simply inserted through the 10 holes on the front portion of the dispenser box
- 3.25"H x 5"W x 3.25"D

Order Number	Package Contains
J00600	1 Dispenser



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LIGATURES/SEPARATORS

Ligatures and Separators

- Convenient dispensing
- Strong, tasteless, maintains retention



	Gray	Clear	Color	Package Contains
Ligature "S" Shaped Dispenser .123" (3.12mm) outside diameter (10 dispensers)	J00156	J00154		1,000

Synergy® Low-Friction Ligatures

- Silicone injected
 - Reduced friction
 - Good stain resistance
 - Low profile
- .123" (3.12mm) outside diameter
(10 dispensers)

J00151 /white opaque	1,000
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Mini Single Case Ligature Stick
.121" (3.07mm) outside diameter
100 sticks (10 ligatures per stick)

Order Number	Color	Package Contains
J00340	fluorescent yellow	1,000
J00341	fluorescent pink	
J00342	fluorescent green	
J00343	fire engine red	
J00344	orchid	
J00346	smoke	
J00347	sky blue	
J00348	orange	
J00349	navy blue	
J00351	blue	
J00352	azure	
J00353	dark green	
J00354	green	
J00355	red	
J00356	light pink	
J00357	fuschia	
J00358	gold	
J00359	silver	
J00360	white	
J00361	black	

Mini Stick Colored Ligature Kit

Each kit contains all 22 colors (plus double quantities of gray and clear) with each compartment containing 1,000 ligatures. The lid contains a transparency which shows each part number, color, and position. Also included is a laminated color wheel which shows the 22 different colors—patients can choose their color chairside without touching the ligatures.



Order Number	Package Contains
K00340	24,000 ligatures

24 Compartment Box

J00780	1
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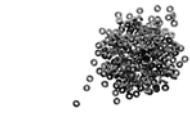
LIGATURES/SEPARATORS,
ELASTIC THREAD, ROTATION WEDGES

Ligatures and Separators

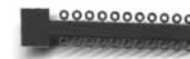
- Convenient dispensing
- Strong, tasteless, maintains retention



	Gray	Clear	Color	Package Contains
Separator Sticks .191" (4.85mm) outside diameter (100 sticks)			J00177 /blue J01451 /radio opaque	1,000



Separators Cut .170" (4.32mm) outside diameter			J00178 /blue J01450 /radio opaque	1,000 (approx.)
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Single Case Ligature Stick .123" (3.12mm) outside diameter 45 sticks (22 ligatures per stick)	J00221	J00220	J00320 /blue J00321 /green J00322 /orange J00323 /red J00324 /purple J00325 /silver J00326 /pink J00327 /glow J00328 /white J00329 /black	990
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Ligature Ringlets on Rings .123" (3.12mm) outside diameter (10 rings)	J00175	J00176		1,000
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Elastomeric Ligatures

- Preloaded cane dispensers
- Easily engages under tie wings
- Retains resiliency over long periods of time
- Resists fluid absorption and odor



	Gray	Clear	Package Contains
Ligature Canes - .110" (2.79 mm) 20 canes of one color	J00182	J00184	1,000
Ligature Canes - .120" (3.05 mm) 20 canes of one color	J00183	J00185	1,000

Elastomeric Rotation Wedges

- Produces rotational force by snapping perforated tab over tie wings of bracket, inserting arch wire in groove of wedge and ligating opposite tie wings of bracket to arch wire.
- Wedge acts as fulcrum between bracket and arch wire
- Gray color



	Gray	Package Contains
	J00174	50 (5 sticks)

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ELASTIC THREAD/ELASTOMERIC MODULES



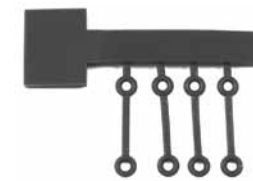
Round and Square Elastomeric Elastic Tie Thread

- Consistent resiliency and knot retention
- Resists stain, odors, moisture resorption
- Good elastic memory
- Handles rotation, retractions, lingual ties, etc.
- Colors blend with appliances

	Gray	Clear	Package Contains
.025" (0.635mm), 25 ft.	J00387	J00386	1 spool
.030" (0.762mm), 25 ft.	J00389	J00388	1 spool
.018" x .018" (0.457mm x 0.457mm), 50 ft.	J00191	J00180	1 spool
.026" x .026" (0.660mm x 0.660mm), 50 ft.	J00192	J00181	1 spool

Elastomeric Modules

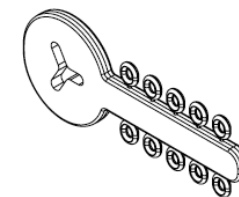
- Ligature ties with connecting bridges to close intra arch space
- Use to rotate individual teeth and connecting hooks
- Provides continuous gentle forces



	Size Module to Module	Gray	Clear	Package Contains
.276"	7mm	J00331	J00330	100
.394"	10mm	J00333	J00332	100

Synergy® Oval Ligature

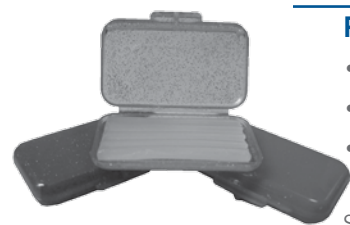
- Designed for the ceramic Synergy LUX® brackets
- Thinner and has a smaller overall outside dimension while maintaining the inside dimension compared to the standard ligatures
- 10 ligatures per stick



	Pearl	Gray	Clear	Package Contains
	J00161	J00163	J00162	100 sticks or 1000 ligatures

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ALGINATE/IMPRESSION TRAYS



Patient Relief Wax

- Wax is used for relief from application irritation
- Each box contains 50 individual wax boxes for patients.
- Three Color options: Red, White, and a Sparkle Multi Pack (Orange, Pink, Blue, and Green)

Sparkle Multi Pack	J00550	50/box
White	J00551	50/box
Red	J00552	50/box



Ortho-Jel® Alginate

- Heavy body - Type I alginate
- 30 second setting time
- Creamy consistency provides excellent detail
- Pleasant vanilla flavor
- "3-Color-Signalling" mixing feature: mix with water, turns violet; turns pink, load tray; turns white, insert into mouth
- 2-year shelf life

	Order Number	Package Contains
Ortho-Jel® is non-returnable	J00250	2-450 gram bags
	J00251	24-450 gram bags



RMO® Disposable Impression Trays

- Designed specifically for orthodontic use
- Made from reinforced disposable plastic. A rigid, high-impact, FDA-approved styrene and dye
- Features smooth, rounded edges, anterior retention slots and vertical perforations for enhanced material retention
- Are anatomically correct with a palatal ridge for optimum fit and greater patient comfort
- Ideal for use with RMO Ortho-Jel® Alginate or any other impression material

Size	Order Number Maxillary	Order Number Mandibular	Order Number	Package Contains
Small (Blue)	J01233	J01243		10
Medium (Green)	J01234	J01244		10
Large (Yellow)	J01235	J01245		10
Assortment, Max/Man (5 of each size)			K00455	30 trays

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ALGINATE/IMPRESSION TRAYS



RMO® Aluminum Impression Trays

- Easily bendable for a custom fit
- Smooth edges for optimal patient comfort
- Adaptable to fit all patients

Maxillary	Size	Dimensions (width x depth)	Color	Order Number Maxillary	Package Contains
	1	57mm x 48mm	Pink	J00304	1
	2	62mm x 54mm	Blue	J00305	1
	3	68mm x 60mm	Red	J00306	1
	4	75mm x 65mm	Gold	J00307	1
	5	84mm x 70mm	Violet	J00308	1

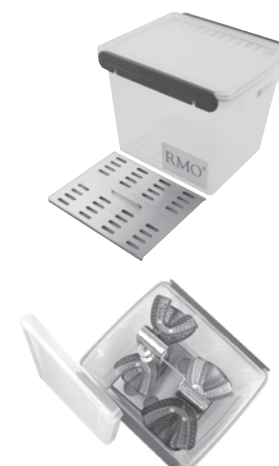
Mandibular	Size	Dimensions (width x depth)	Color	Order Number Mandibular	Package Contains
	1	62mm x 44mm	Pink	J00364	1
	2	70mm x 48mm	Blue	J00365	1
	3	75mm x 50mm	Red	J00366	1
	4	82mm x 53mm	Gold	J00367	1
	5	87mm x 55mm	Violet	J00368	1

Kit	Order Number	Package Contains
	K00566	assortment of 10, one of each maxillary and mandibular sizes



Impression Tray Rack and Container

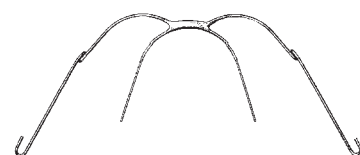
- Vertical stainless steel tower is designed to hold up to eight trays
- Tower can be used to store sterile trays, hold an impression, or hold a poured stone model
- When used with the storage case, it holds trays in high humidity environment for less distortion before pouring the model
- Helps prevent crack formation



	Order Number	Package Contains
Tray Rack	J00370	1
Tray Humidity/Storage Case	J00371	1
Tray Humidity/Storage Kit Includes components: J00370 and J00371	K01564	(Kit)
Humidity/Storage Kit with Trays Includes components: J00370 and J00371 and K00566	K01566	(Kit)

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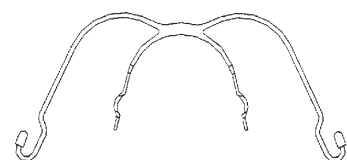
FACEBOWS/LIP BUMPERS



Facebow (Ricketts®)

- Flexible, permits natural expansion
- Outer bow loop provides vertical auxiliary control
- Laser welded and brazed into a strong single unit

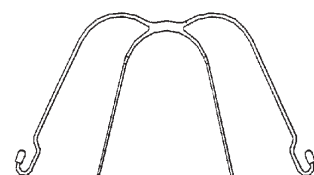
	Order Number	Package Contains
Non-extraction/Large Arch	J00400	1
Extraction/Small Arch	J00401	1



Penta-Form™ Loop-Style Facebow - Stainless Steel

- 5 sizes of inner bow. Length in millimeters is measured from distal end of loop along inner arch to distal end of opposite loop
- .078" spring tempered outer bow
- .045" inner bow
- Comfortable, avoids frontal cheek area
- Soldered into a strong single unit
- Marked with size and midline indication

Size	Order Number	Package Contains
1 93mm	J01270	1
2 100mm	J01271	1
3 107mm	J01272	1
4 114mm	J01273	1
5 121mm	J01274	1
Universal Full Form	J01277	1



Kussick Facebow - Stainless Steel

- 5 sizes of inner bow
- Length in millimeters is measured from the mesial end of the headgear tube

Size	Order Number	Package Contains
1 85mm	J01260	1
2 90mm	J01261	1
3 95mm	J01262	1
4 100mm	J01263	1
5 105mm	J01264	1

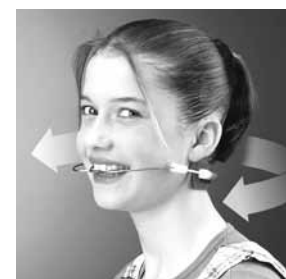


Lip Bumper (Ricketts®) Stainless Steel (with Lateral Setback)

	Order Number	Package Contains
Large	P00100	5
Small	P00101	5

intraoralextraoral

SPRING-GEAR®



The patented Spring-Gear® is a comfortable, safe headgear which continues to exert equal forces on the dentition, regardless of which head movements are made. The Spring-Gear was developed and comprehensively tested in orthodontic practices and patented worldwide. Comfort, freedom of movement, safety and, of course, effectiveness were the principles adopted during development.

Applied Force

Because a nickel-titanium spring is used to develop the force, it is maintained at the level set by the clinician until he/she changes it.

Comfort

The flexible, transparent Spring-Gear tube adapts to fit every neck size. The soft, blue neck cushion on the interior is washable and can be replaced by a new one if required.

Safety

A simple, but effective, system ensures that the snap-way attachments detach from the face bow, if excessive force is applied. Ingenious design and choice of material guarantees that the releasing force remains constant throughout treatment.

Equal Forces

A virtually friction-free Nickel-Titanium spring ensures that the forces exerted on the dentition scarcely change regardless of the direction in which the patient moves his/her head.

A study by the Netherlands Organization for Applied Scientific Research showed the forces on the 1st molars did not change when the head moved with patients wearing Spring-Gear cervical headgear. This is a problem with conventional headgear in that the forces on the 1st molars change with each movement of the head. This is because the headgear does not slide around the neck like it does with Spring-Gear.

Fitting the Spring-Gear to the individual patient is very simple. Sliding the snap-way attachments along the strap enables the nickel-titanium spring to be extended to the point where ideal strength is reached.

	Order Number	Package Contains
Spring-Gear®	J00521	1 Spring-Gear/1 Neck Pad
Replacement Neck Pads	J00525	10



intraoralextraoral

SAFETY HEADGEAR SYSTEM

Safety Headgear System reduces the potential hazard of slingshot rebounds of headgear. If the facebow is pulled with excessive force, clips holding the spring release modules disconnect automatically and disengage the facebow. Reassembly after release is easy for the patient.

The system is available with cervical traction pads and high-pull head straps, and bilateral two-part safety release modules. Steel coil springs are incorporated in modules to provide constant traction force. When contracted, springs are calibrated to produce medium and heavy forces. Facebow attachment straps are color-coded to easily identify force levels. Neckpads and head straps are in denim fabric.

	Order Number	Package Contains
Cervical Neckpad with 2 Modules		
Medium (14 oz.) white straps	J00390	1
Heavy (18 oz.) gray straps	J00391	1
High-Pull Head Strap with 2 Modules		
Medium (14 oz.) white straps	J00392	1
Heavy (18 oz.) gray straps	J00393	1
Neckpad	J00394	1
High-Pull Head strap	J00395	1
Modules Medium (14 oz.) white straps	J00396	2
Modules Heavy (18 oz.) gray straps	J00397	2



intraoralextraoral

MY T GUARD®



The Ultimate in Mouthguard Protection

RMO's My T Guard® is made of a special material that exactly molds to your patient's individual teeth including braces. Even as teeth move during orthodontic treatment, the My T Guard can be refitted to accommodate change.

My T Guard is a dental device designed to absorb and dissipate severe blows to the mouth area. The research and testing utilized in its development are far superior to industry standards.

If a blow to the face occurs, My T Guard allows severe impact forces to be immediately dampened and directed away from teeth and delicate facial bones, including the TMJ. This dampening and redirecting of the impact forces help to prevent concussion-causing vibrations from penetrating the nasal cavity, brain and head. My T Guard also serves to reduce trauma to the lips, tongue, cheeks and gum tissue.

Further enhancing its protective capabilities is the fact that it is the only mouthguard capable of taking a full upper and lower dental impression. No other mouthguard comes close to protecting your patient as well as the My T Guard mouthguard.

	Order Number	Package Contains
Light Blue	J00540	1
Dark Blue	J00541	1
Black	J00542	1
Yellow	J00543	1



bands



Sunrise mountain yellow blooms at the Flat Irons of Boulder, Colorado.

Notes, Quotes and Anecdotes

Poem

The memorable war poem 'In Flanders Fields' was written by John McCrae, a Canadian army physician, on May 3, 1915 after he witnessed the cruel death of his friend the day before during fierce fighting in World War I. This poem was literally born of fire and blood. It is a lasting legacy, a reminder of the awful cost of freedom that should never be forgotten. Our fighting Americans never lost sight of this during World War I, World War II and each successive battle America has had to engage in.

In Flanders Fields

by John McCrae, May 1915

In Flanders fields the poppies blow
Between the crosses, row on row,
That mark our place; and in the sky
The larks, still bravely singing, fly
Scarce heard amid the guns below.

We are the Dead, Short days ago
We lived, felt down, saw sunset glow,
Loved and were loved, and now we lie
In Flanders fields.

Take up our flags, O Truce with the foe,
So you from our falling hands we throw
The torch, and you be hold it high
If ye break down, think of us who die
We shall not sleep,
In Flanders fields, where
The poppies blow.

In Flanders fields

The Proper PREformed BAND

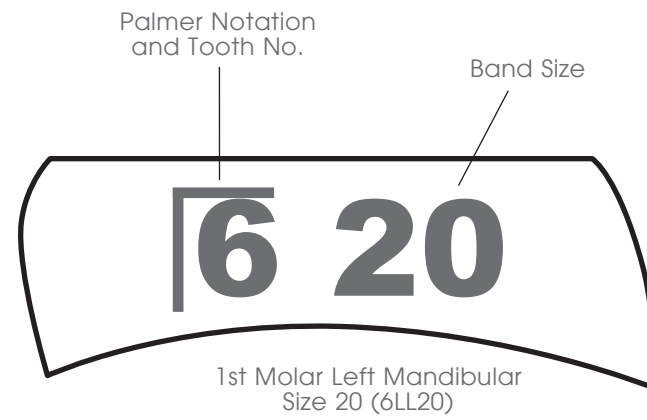
Orthodontic bands have been basic to the progress of orthodontics since the beginning of this science. Techniques have changed and materials have improved; from nickel-silver clamp bands with projecting nut and bolt, to precious metals, to swagged rings, and finally, to chrome alloy preformed orthodontic bands developed first by Rocky Mountain® Orthodontics (RMO®).

While prefabrication has been tried before, the application of chrome alloy made it possible to provide greater edge strength, improved fitting qualities, and more aesthetically appearing appliances. The breakthrough in reduced manufacturing procedures of bands stemmed from original RMO engineering and clinical testing that made it possible to cut operating time by more than 75 percent.

RMO's TruForm bands offer the following:

- **Superior Temper** – All RMO TruForm bands are stress relieved, resulting in a consistent and reliable temper for quick and accurate adaptation to the anatomy of the tooth every time.
- **Ideal Contour** – The shape of TruForm bands is established by clinical use. The occlusal edge is slightly rolled to enhance fitting and prevent cement ridge build-up. TruForm bands are properly festooned to conform accurately to the morphology of the tooth anatomy.
- **Accurate Sizes** – RMO TruForm bands are available in 36 sizes.
- **Permanent Identification** – RMO TruForm molar bands are permanently marked resulting in clean, easy-to-read identification.
- **Smooth Finish** – All RMO TruForm bands have a luster finish outside and a velvet finish inside.
- **Compatible Width** – All RMO TruForm molar bands meet all technique requirements.
- **Superior Quality** – RMO TruForm bands are unmatched in quality for anatomic shape, functional fit, and truly consistent RMO temper.
- **Flexible Fitting** – RMO TruForm molar bands are offered in both Universal and left/right anatomically specific versions for maxillary and mandibular molars in all standard size ranges as well as pedo. For proper fitting, RMO highly recommends the presence of a lingual attachment for optimal seating.
- **No Additional Preweld Charge** – RMO offers to preweld the buccal and lingual attachments to any of RMO's bands at no additional charge, provided the attachments conform within our standard preweld position guide. Custom assemblies which include any RMO attachments/bands prewelded to other than the standard preweld position guide are also available. Please allow additional fabrication time for custom assemblies.

RMO® Molar Band Marking Specification



Palmer notation symbols molar bands



RMO® Molar Band Marking Specification



bands

TRUFORM BANDS MAXILLARY FIRST MOLAR RIGHT AND LEFT

- Anatomical design – right and left shape for precise and comfortable fitting
- Size identification and Palmer notation are permanently marked to withstand heat sterilization
- Accurate sizes – proportionately graduated sizes of superior RMO temper for use on primary molars and first permanent molars
- Dimensional strength remains stable without deformation during trial fitting
- Withstands mastication and external appliance stress



Primary Second Molar and First Permanent Molar, Equal Number of Rights and Lefts

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	4	4	4	4	4	4	4	4	4	4	4	6	6	8	10	12	12	12	10	8	8	8	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	214
Introductory Kit Order Number																																					K00518	



First Permanent Only, Equal Number of Rights and Lefts

Band Size	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	4	6	6	8	8	10	12	12	12	10	10	8	8	6	6	6	4	4	4	4	4	4	4	4	4	4	180
Introductory Kit Order Number																											K00520

Band Size	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Total
Kit Contains	2	2	2	4	4	4	6	8	10	10	10	8	6	6	4	2	2	100	
Mini Kit Order Number																		K00158	

bands

TRUFORM BANDS MANDIBULAR FIRST MOLAR RIGHT AND LEFT

- Anatomical design – right and left shape for precise and comfortable fitting
- Size identification and Palmer notation are permanently marked to withstand heat sterilization
- Anatomically shaped – design conforms to buccal/lingual inclination and adapts accurately to the morphology of the tooth anatomy
- Accurate sizes – proportionately graduated sizes of superior RMO temper for use on primary molars and first permanent molars
- Dimensional strength remains stable without deformation during trial fitting
- Withstands mastication and external appliance stress



Primary Second Molar and First Permanent Molar, Equal Number of Rights and Lefts

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	4	4	4	4	4	4	4	4	4	4	6	8	8	10	12	12	12	10	8	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	218
Introductory Kit Order Number																																					K00558	



First Permanent Only, Equal Number of Rights and Lefts

Band Size	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	8	8	10	12	12	12	12	12	8	8	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	176	
Introductory Kit Order Number																											K00560

Band Size	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Total
Kit Contains	2	2	2	4	4	4	6	8	10	10	10	8	6	6	4	2	2	100	
Mini Kit Order Number																		K00159	

bands

TRUFORM BANDS MAXILLARY FIRST MOLAR UNIVERSAL

- Universally shaped – functional fit with complete adaptation to tooth anatomy
- Size identification and Palmer notation are permanently marked to withstand heat sterilization
- Accurate sizes – proportionately graduated sizes of superior RMO temper for use on primary molars and first permanent molars
- Buccal groove for orientation to tooth anatomy
- Dimensional strength remains stable without deformation during trial fitting
- Withstands mastication and external appliance stress



Primary Second Molar and First Permanent Molar

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	2	2	2	2	2	2	2	3	3	3	3	4	4	5	7	8	9	9	9	8	7	6	6	5	5	4	4	3	3	2	2	2	2	2	2	2	2	153
Introductory Kit Order Number																																				K00510		
Mini Kit Contains	2	2	2	2	2	2	2	2	2	2	2	3	3	4	5	6	6	6	5	4	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	107
Mini Kit Order Number																																				K00050		

Primary Second Molar and First Permanent Molar, packaged for Equal Number of Rights and Lefts for Tube/Bracket Placement

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	4	4	4	4	4	4	4	4	4	4	4	6	6	8	10	12	12	12	10	8	8	8	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	214
Introductory Kit Order Number																																				K00512		

First Permanent Only

Band Size	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	4	5	6	7	8	10	10	9	8	7	6	6	6	5	4	4	4	3	2	2	2	2	2	2	134	
Introductory Kit Order Number																								K00514		
Band Size	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Total							
Kit Contains	2	2	2	4	4	4	6	7	10	10	10	8	6	6	4	2	2	100								
Mini Kit Order Number																		K00148								

First Permanent Only, packaged for Equal Number of Rights and Lefts for Tube/Bracket Placement

Band Size	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	6	6	8	8	10	12	12	12	10	10	8	8	6	6	6	4	4	4	4	4	4	4	4	4	180	
Introductory Kit Order Number																								K00516		

bands

TRUFORM BANDS MANDIBULAR FIRST MOLAR UNIVERSAL

- Universally shaped – functional fit with complete adaptation to tooth anatomy
- Size identification and Palmer notation are permanently marked to withstand heat sterilization
- Accurate sizes – proportionately graduated sizes of superior RMO temper for use on primary molars and first permanent molars
- Lingual groove for orientation to tooth anatomy
- Developed through years of RMO band manufacturing
- Dimensional strength remains stable without deformation during trial fitting
- Withstands mastication and external appliance stress



Primary Second Molar and First Permanent Molar

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total	
Kit Contains	2	2	2	2	2	2	2	2	3	4	5	6	7	8	9	9	9	9	8	7	5	5	4	4	3	3	2	2	2	2	2	2	2	2	2	2	2	151
Introductory Kit Order Number																																				K00550		
Mini Kit Contains	2	2	2	2	2	2	2	2	2	2	3	4	4	5	6	6	6	6	5	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	109	
Mini Kit Order Number																																				K00051		

Primary Second Molar and First Permanent Molar, packaged for Equal Number of Rights and Lefts for Tube/Bracket Placement

Band Size	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	4	4	4	4	4	4	4	4	4	4	6	8	8	10	12	12	12	10	8	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	218
Introductory Kit Order Number																																				K00552	

First Permanent Only

Band Size	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	6	7	8	10	10	10	10	9	7	6	5	4	4	4	3	2	2	2	2	2	2	2	2	132		
Introductory Kit Order Number																								K00554		
Band Size	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	Total							
Kit Contains	2	2	2	4	4	4	6	8	10	10	10	8	6	6	4	2	2	100								
Mini Kit Order Number																		K00149								

First Permanent Only, packaged for Equal Number of Rights and Lefts for Tube/Bracket Placement

Band Size	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	Total
Kit Contains	8	8	10	12	12	12	12	12	8	8	6	6	6	4	4	4	4	4	4	4	4	4	4	176		
Introductory Kit Order Number																								K00556		

bands

TRUFORM BANDS MAXILLARY/MANDIBULAR SECOND MOLAR RIGHT AND LEFT

- Anatomical right and left shape with pre-positioned buccal groove provides positive retention with minimum effort and adaptation
- Size identification and Palmer notation are permanently marked to withstand heat sterilization
- Anatomically shaped – design conforms to buccal/lingual inclination and adapts to morphology of the tooth anatomy
- Dimensional strength remains stable without deformation during trial fitting
- Withstands mastication and external appliance stress
- Full complement of sizes – 26 size increments of superior RMO temper



Maxillary Second Molar, packaged for Equal Number of Rights and Lefts

Band Size	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Total
Kit Contains	4	4	4	4	4	6	6	8	8	10	12	12	12	10	8	8	8	8	6	6	4	4	4	4	4	4	180
Introductory Kit Order Number	K00522																										



Mandibular Second Molar, packaged for Equal Number of Rights and Lefts

Band Size	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	Total
Kit Contains	4	4	4	4	6	8	8	10	12	12	12	12	10	8	6	6	6	6	4	4	4	4	4	4	4	4	178
Introductory Kit Order Number	K00564																										



bands

TRUFORM BANDS MAXILLARY FIRST AND SECOND BICUSPID

- Universally shaped – functional fit with complete adaptation to tooth anatomy; gingival festoon eliminates tissue impingement
- Full complement of sizes – choice of correct size for maximum retention at desired position
- Size identification – color-coded black with letter for size selections and maxillary identification
- RMO-engineered ductility and precise form adapts to the tooth contours with secure retention



Universal Bracket Placement

Band Size	G	G+	H	H+	I	I+	J	J+	K	K+	L	L+	M	M+	N	N+	Total
Kit Contains	2	3	4	5	7	10	13	16	17	15	13	10	7	4	3	2	131
Introductory Kit Order Number	K00329																

Packaged for Equal Number of Rights and Lefts for Bracket Placement

Band Size	G	G+	H	H+	I	I+	J	J+	K	K+	L	L+	M	M+	N	N+	Total
Kit Contains	4	4	6	8	10	12	16	20	22	18	16	12	8	6	4	4	170
Introductory Kit Order Number	K00330																

bands

TRUFORM BANDS MANDIBULAR FIRST AND SECOND BICUSPID



- Universally shaped – functional fit with complete adaptation to tooth anatomy
- Correct band width – secure anchorage is provided without gingival extension
- Full complement of sizes – choice of correct size for maximum retention at desired position
- Size identification – color-coded red with letter for size selections and mandibular identification
- RMO-engineered ductility and precise form adapts to the tooth contours with secure retention; festooned gingival

Mandibular First Bicuspid, Universal Bracket Placement

Band Size	F	F+	G	G+	H	H+	I	I+	J	J+	K	K+	L	L+	M	M+	Total
Kit Contains	2	3	6	8	9	11	12	13	10	7	5	3	2	2	2	2	97
Introductory Kit Order Number	K00331																

Mandibular First Bicuspid, packaged for Equal Number of Rights and Lefts for Bracket Placement

Band Size	F	F+	G	G+	H	H+	I	I+	J	J+	K	K+	L	L+	M	M+	Total
Kit Contains	4	4	8	10	12	14	16	16	14	10	6	4	4	4	4	4	134
Introductory Kit Order Number	K00332																



- Apron contoured tightly to buccal surface and adapts smoothly with mesial and distal angles
- Size Identification - color-coded red with number for size selections and mandibular identification

Mandibular Second Bicuspid, Universal Bracket Placement

Band Size	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Total
Kit Contains	2	2	2	3	4	4	4	4	5	6	7	8	9	9	8	7	6	5	4	3	2	2	2	2	2	2	2	123
Introductory Kit Order Number	K00333																											

Mandibular Second Bicuspid, packaged for Equal Number of Rights and Lefts for Bracket Placement

Band Size	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Total
Kit Contains	4	4	4	4	6	6	6	6	6	8	8	10	12	12	10	10	8	6	6	4	4	4	4	4	4	4	4	176
Introductory Kit Order Number	K00334																											

bands

TRUFORM BANDS MAXILLARY/MANDIBULAR APRON CUSPID



- Universally shaped – apron bands permit offset incisal placement of bracket
- Apron contours tightly to labial surface and adapts smoothly with mesial and distal angles
- Rolled gingival and incisal edges provide total retention and minimize cement ridge build-up
- Specific incisal-gingival taper for maxillary canines with added ductility for superior fitting qualities
- Full complement of sizes – clinically tested for maximum utilization
- Size identification – color-coded black with letter for size selections and maxillary identification
- RMO-engineered ductility and precise form adapts to the tooth contours with secure retention

Maxillary Apron Cuspid, Universal Bracket Placement

Band Size	D	D+	E	E+	F	F+	G	G+	H	H+	I	I+	J	J+	Total
Kit Contains	2	3	4	6	9	11	13	13	11	8	5	4	3	3	95
Introductory Kit Order Number	K00313														

Maxillary Apron Cuspid, packaged for Equal Number of Rights and Lefts for Bracket Placement

Band Size	D	D+	E	E+	F	F+	G	G+	H	H+	I	I+	J	J+	Total
Kit Contains	4	4	6	8	12	14	16	16	14	10	8	6	4	4	126
Introductory Kit Order Number	K00314														



- Size identification – color-coded red with letter for size selections and mandibular identification

Mandibular Apron Cuspid, Universal Bracket Placement

Band Size	B	B+	C	C+	D	D+	E	E+	F	F+	G	G+	H	H+	Total
Kit Contains	2	2	3	7	11	12	14	14	11	8	5	2	2	2	95
Introductory Kit Order Number	K00317														

Mandibular Apron Cuspid, packaged for Equal Number of Rights and Lefts for Bracket Placement

Band Size	B	B+	C	C+	D	D+	E	E+	F	F+	G	G+	H	H+	Total
Kit Contains	4	4	4	8	14	16	18	18	14	10	6	4	4	4	128
Introductory Kit Order Number	K00318														

bands

DISPENSING AND STORAGE SYSTEMS



Band Trays

RMO offers a complete band storage and chairside dispensing system which fits with the new permanent marking system.

These versatile, space-saving series of storage and dispensing units are capable of holding all RMO bicuspid, cuspid and molar bands.

Inventory Organization

Each of the formed compartments in the trays vary in size to accommodate greater quantities of the most commonly used sizes.

Versatile

Each printed tray format includes a formed tray and a clear, locking lid. Each tray includes a label that indicates type of band, maxillary, or mandibular.

	Order Number	Package Contains
Molar Band Tray		
(Tray label indicates all of these options)		
Max 1st Molar Universal	J00750	1 tray
Max 1st/2nd Molar Right		
Max 1st/2nd Molar Left		
Man 1st Molar Universal		
Man 1st/2nd Molar Right		
Man 1st/2nd Molar Left		
Cuspid Band Tray		
Maxillary/Mandibular Cuspid	J00762	1 tray
Bicuspid Band Tray		
Maxillary 1st/2nd Bicuspid/ Mandibular 1st Bicuspid	J00770	1 tray
Mandibular 2nd Bicuspid	J00771	1 tray

bands

PREWELDED AUXILIARIES



Band Seating Lug

- Used to seat preformed bands
- Furnished in 10-lug strips for easy welding to lingual.

	Order Number	Package Contains
Cuspid/Bicuspid	A00718	100
Molar	A00719	100



Lug/Cleat (Debnam)

- Used as band seating lug and mesial-distal elastic hook
- Hook is bent out from band surface to engage elastics.

	Order Number	Package Contains
Cuspid/Bicuspid	A00476	approx. 100
Molar	A00720	approx. 100



Eyelets

- Large, accepts wire and small diameter ligature thread

	A00039	100
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Lingual Hook

- Flat weldable base with smooth ball end for placement on molars

	A00297	10
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Lingual Button

- Exclusive round design allows any placement on band with minimum protrusion
- Can be used as a combination hook/band seating lug
- Ultra-smooth finish for improved patient comfort
- Easily welded to stainless steel bands

	A00047	10
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Seating Lug/Hook







- Serves as lingual hook or molar hook for cross elastics and as a band seating/removing lug for anteriors



Cuspid/Bicuspid Molar Base	A00767	100
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bands

LINGUAL TUBES

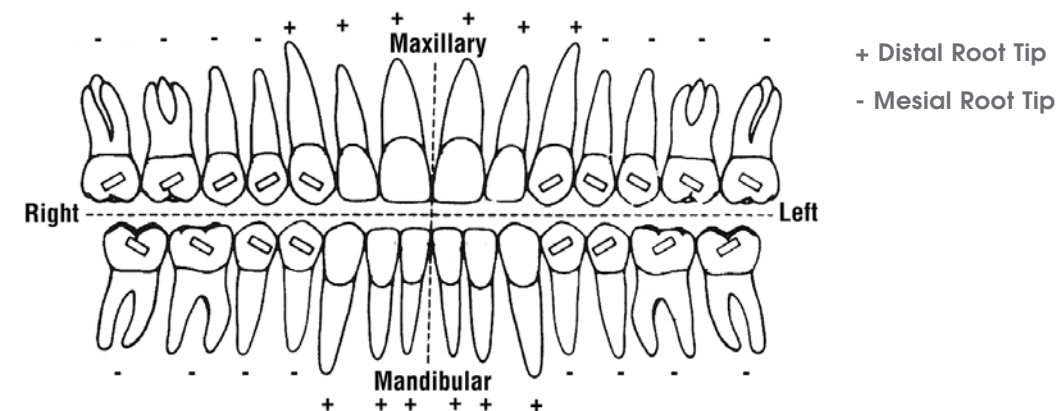
	Order Number	Package Contains
 Wilson® 3D® Tube Designed to accept Lingual 3D FIXED/REMOVABLE™ Modular Orthodontics® (Wilson®) appliances.		
Tube without hook	A04315	10
Tube with gingival hook	A04314	10
 Gaston-type single vertical lingual tube • For .036 Ellis prefabricated lingual arches		
Tube	A00178	10
 Ellis-type lingual tube with locking knob • For .036 Ellis prefabricated lingual arches		
	A00173	10
 Lingual tube for hand formed lingual arches • For "D-shape" precious metal soldered posts (RMO does not stock lingual posts)		
Tube	A00190	10
 Solderable lingual post • Use only with the lingual tubes A00173 and A00178		
.036 lingual arch wire	A00236	10
 Horizontal Lingual Sheath		
.036 wire	A00148	10

bands

PREWELD POSITION GUIDE

Angulation Guide





Orders for angulated attachments will be positioned and angled per the standard technique of the specific attachment, unless otherwise specified.





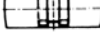


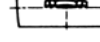
Position Guide

The weld positions illustrated are standard and will vary according to the specific attachment and technique. Weld positions are subject to change as new techniques introduce new variations. RMO proudly offers the flexibility of custom placement assemblies for all prewelds per customer specification. Please allow additional fabrication time for all custom placement assemblies.

Cuspid

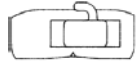
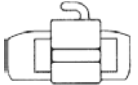
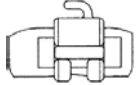
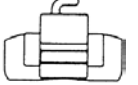
				
Placement	Edgewise Bracket	Light Wire Bracket	Lingual Button	Lingual Lug/Cleat
Mesial-Distal	Apron Centered	Apron Centered	Apron Centered	Apron Centered
Occlusal-Gingival	Offset to Occlusal	Offset to Occlusal	Centered	Offset to Occlusal

Bicuspid


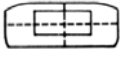


						
Placement	Maxillary/Mandibular 1st Edgewise Bracket	Mandibular 2nd Edgewise Bracket	Light Wire Bracket	Seating Lug/Hook	Lingual Button	Lingual Lug/Cleat
Mesial-Distal	Centered	Centered	Centered	Centered	Centered	Centered
Occlusal-Gingival	Centered	Offset to Occlusal	Edge of bracket even with gingival edge of band	Offset to Occlusal	Centered	Offset to Occlusal

Maxillary Molar

Buccal



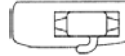
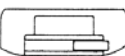
				
Placement	Single Buccal Tube	Convertible Double Tube	Convertible Double Tube/Bracket	Triple Buccal Tube
Mesial-Distal	Mesial end of tube bisects mesial-buccal cusp	Mesial end of tube bisects mesial-buccal cusp	Mesial end of tube bisects mesial-buccal cusp	Mesial end of tube bisects mesial-buccal cusp
Occlusal-Gingival	Arch Slot for illustrations shown is 2.0mm ABOVE occlusal edge of band			

Lingual


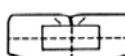


				
Placement	3D [®] Lingual Tube (Wilson [®])	Lingual Arch Sheath	Lingual Button	Molar Lug/Cleat
Mesial-Distal	Centered	Centered	Centered	Centered
Occlusal-Gingival	Occlusal edge of tube offset 1.0mm from occlusal edge of band	Centered	Centered	Offset to Occlusal

Mandibular Molar

Buccal

				
Placement	Single Buccal Tube	Twin Tube	Single Buccal Tube 2nd Molar	Single Buccal Tube Gingival Placement
Mesial-Distal	R & L Mesial end of tube bisects mesial-buccal cusp	R & L Mesial end of tube bisects mesial-buccal cusp	R & L Mesial end of tube bisects mesial-buccal cusp	R & L Mesial end of tube bisects mesial-buccal cusp
Occlusal-Gingival	Arch Slot 2.0mm BELOW occlusal edge of band	Arch Slot 2.0mm BELOW occlusal edge of band	Arch Slot 2.0mm BELOW occlusal edge of band	Tube even with gingival edge of band

Lingual

				
Placement	3D [®] Lingual Tube (Wilson [®])	Lingual Arch Sheath	Lingual Button	Lug/Cleat
Mesial-Distal	Centered	Centered	Centered on mesial cusp	Universal centered R & L offset to distal
Occlusal-Gingival	Occlusal edge of tube offset 1.0mm from occlusal edge of band	Centered	Offset to Occlusal	Offset to Occlusal

SWLF®



Stream and trees in full color in Colorado.



Notes, Quotes and Anecdotes

Quotes by John Fitzgerald Kennedy

"We should not let our fears hold us back from pursuing our hopes."

"Mothers all want their sons to grow up to be president but they don't want them to become politicians in the process."

"We do not forget that we are the heirs of that first revolution."

"As we express our gratitude, we must never forget that the highest appreciation is not to utter words, but to live by them."

"Every area of trouble gives out a ray of hope; and the one unchangeable certainty is that nothing is certain or unchangeable."

"When written in Chinese, the 'crises' is composed of two characters. One represents danger, and the other represents opportunity."

"In the long history of the world, only a few generations have been granted the role of defending freedom in its hour of maximum danger. I do not shrink from this responsibility—I only welcome it."

SWLF®

For years, RMO® has been advocating low friction through its Synergy® bracket. Based on the diagnostic, therapeutic, and clinical philosophy of Dr. David Suarez, RMO has developed a standardized and intuitive technique that is biochemically simple, versatile, easy to use, and designed to meet the needs of contemporary orthodontics:

Straight Wire Low Friction (SWLF®)

The SWLF technique brings traditional straight wire techniques up to date by incorporating all the new clinical concepts and technological advances with the goal of setting up guidelines for diagnostics, treatment planning, and standardized therapeutic procedures to make treatment simpler and more effective. The SWLF technique is dynamic and versatile, capable of gradually absorbing the technological advances still to come, while molding itself to the needs of each doctor and each clinical reality.

The SWLF Technique

The SWLF technique is based on the following:

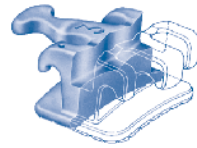
- Use of the latest and most effective superelastic wires at each stage of treatment, ensuring orthodontic tooth movement is quicker, easier, and more physiological.
- Use of Synergy bracket systems, which are specifically designed for use with thermally activated wires, both round and rectangular, have pioneered the individual control of friction through a revolutionary design which makes it possible to selectively control orthodontic tooth movement.
- Versatile and simple biomechanics which are clinically efficient and can reduce appointments and total treatment time by up to more than 30%.

The SWLF technique consists of:

- **The Synergy bracket systems** – popular and proven low-friction brackets. Their innovative designs allow for individual and selective control over friction, anchorage, and tooth movement, as well as a drastic reduction in the number of wires employed compared to traditional straight wire brackets. RMO has developed a new bracket, band, and direct bonding tube prescription for SWLF, designed for the specific biomechanical requirements of this technique in both .018 and .022 arch slots.
- **New high technology wires** – designed specifically for SWLF. Super-elastic wires, heat-activated, thermal nickel-titanium, capable of generating light, constant forces are easy to manage with high clinical effectiveness. Finishing and detailing wires, Beta III, combine the advantages of nickel-titanium (flexibility) with the benefits of traditional stainless steel wires (bendability).
- **Auxiliary products** – low-friction ligatures make tooth movement more effective in the initial stages of treatment. Elastic chain modules generates constant and prolonged forces. Special hooks are designed specifically for SWLF to convert rectangular arch wires while into a distalizing wire or a closing loop arch. The hooks are simply placed on the arch wires in the mouth using the Crimpable Hook Plier. The hooks minimize arch wire inventory and allow for increased versatility.

Available in the most popular designs:

- Synergy® (Traditional)
- Synergy R™ Convertible Cuspid/Bicuspid
- Synergy fx® Six Equally Sized Tie Wings; Integral Base
- Synergy LUX® Ceramic

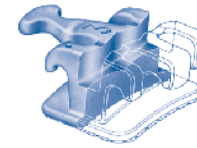


Maxillary brackets

ID Color	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	On Bands	On Bases	On Bands
Black	3°	17°	0°	3.6mm	R	Central			
						M03800		M03900	
Black	9°	8°	0°	3.2mm	R	Lateral			
						M03802		M03902	
Black	8°	0°	0°	3.2mm	R	Cuspid			
						M03806		M03906	
Black	0°	-7°	2° DO	3.2mm	R	First/Second Bicuspid			
						M03810		M03910	
					L	M03811		M03911	

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot		
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
First Molar										
Triple convertible with hook										
0°	-14°	10°	4.2mm	.045 occlusal	R	A08532	A05708	A08552	A05728	
Torque in base.						L	A08533	A05709	A08553	A05729
Second Molar										
Single convertible with hook										
0°	-14°	10°	3.3mm		R	A08534	A05710	A08554	A05730	
Torque in base.						L	A08535	A05711	A08555	A05731



Mandibular brackets

ID Color	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	On Bands	On Bases	On Bands
Black	0°	0°	0°	2.0mm	R/L	Central/Lateral			
						M03820		M03920	
					R/L	M03822		M03922	
Optional Low Profile									
Black	0°	0°	0°	3.2mm	R/L	Cuspid			
						M03826		M03926	
With hook									
Red	0°	-17°	4° DO	3.2mm	R	First/Second Bicuspid			
						M03830		M03930	
					L	M03831		M03931	

Mandibular tubes

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot			
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands		
First Molar										
Double convertible with hook										
0°	-25°	8°	4.2mm	R	A08536	A05712	A08556	A05732		
Torque in base.						L	A08537	A05713	A08557	A05733
Second Molar										
Single convertible with hook										
0°	-20°	8°	3.3mm	R	A08538	A05714	A08558	A05734		
Torque in base.						L	A08539	A05715	A08559	A05735

KITS

Single Case, 20 Brackets

- KM03802** SWLF® Synergy® .018 hook on cuspid/bicuspid, 5-5
- KM03902** SWLF® Synergy® .022 hook on cuspid/bicuspid, 5-5
- KM03805** SWLF® Synergy® .018 low profile mandibular central/lateral, hook on cuspid/bicuspid, 5-5
- KM03905** SWLF® Synergy® .022 low profile mandibular central/lateral, hook on cuspid/bicuspid, 5-5



Maxillary brackets

ID Color	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
Black	3°	17°	0°	3.5mm	R L	Central			
						M04800	A05708	M04900	A05728
Black	9°	8°	0°	3.5mm	R L	Lateral			
						M04802	A05709	M04902	A05729
Black	8°	0°	0°	3.5mm	R L	Cuspid			
						M04806	A05710	M04906	A05730
Black	0°	-7°	2° DO	3.5mm	R L	First/Second Bicuspid			
						M04807	A05711	M04907	A05731
Black	0°	-7°	2° DO	3.5mm	R L	With hook			
						M04810	A05712	M04910	A05732
Black	0°	-7°	2° DO	3.5mm	R L	With hook			
						M04811	A05713	M04911	A05733

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
0°	-14°	10°	4.2mm	.045 occlusal	R	First Molar			
						A08532	A05708	A08552	A05728
0°	-14°	10°	4.2mm	.045 occlusal	L	Triple convertible with hook			
						A08533	A05709	A08553	A05729
0°	-14°	10°	3.3mm		R	Second Molar			
						A08534	A05710	A08554	A05730
0°	-14°	10°	3.3mm		L	Single convertible with hook			
						A08535	A05711	A08555	A05731



Mandibular brackets

ID Color	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
Red	0°	-1°	0°	3.0mm	R/L	Central/Lateral			
						M04820	A05712	M04920	A05732
Red	0°	0°	0°	3.5mm	R/L	Cuspid			
						M04826	A05713	M04926	A05733
Red	0°	-17°	4° DO	3.5mm	R L	First/Second Bicuspid			
						M04830	A05714	M04930	A05734
Red	0°	-17°	4° DO	3.5mm	R L	With hook			
						M04831	A05715	M04931	A05735

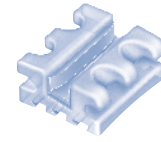
Mandibular tubes

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
0°	-25°	8°	4.2mm	R	First Molar			
					A08536	A05712	A08556	A05732
0°	-25°	8°	4.2mm	L	Double convertible with hook			
					A08537	A05713	A08557	A05733
0°	-20°	8°	3.3mm	R	Second Molar			
					A08538	A05714	A08558	A05734
0°	-20°	8°	3.3mm	L	Single convertible with hook			
					A08539	A05715	A08559	A05735





KITS

Single Case, 20 Brackets



- KM04802** SWLF® Synergy *f_x*® .018 hook on cuspid/bicuspid, 5-5
- KM04902** SWLF® Synergy *f_x*® .022 hook on cuspid/bicuspid, 5-5

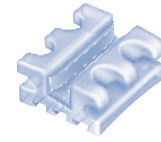


Maxillary brackets

ID Color	Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Red 	Central		3.4mm	R	Q04800	Q04900
	3°	17°		L	Q04801	Q04901
Blue 	Lateral		3.4mm	R	Q04802	Q04902
	9°	8°		L	Q04803	Q04903
Green 	Cuspid		3.4mm	R	Q04806	Q04906
	8°	0°		L	Q04807	Q04907
Black 	First/Second Bicuspid		3.4mm	R/L	0°	-7°
	0°	-7°			With hook	Q04810

Maxillary tubes



Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar								
	Triple convertible with hook								
0°	-14°	10°	4.2mm	.045 occlusal	R	A08532	A05708	A08552	A05728
Torque in base.					L	A08533	A05709	A08553	A05729
	Second Molar								
	Single convertible with hook								
0°	-14°	10°	3.3mm		R	A08534	A05710	A08554	A05730
Torque in base.					L	A08535	A05711	A08555	A05731



Mandibular brackets

ID Color	Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Orange 	Central/Lateral		2.8mm	R/L	0°	0°
	0°	0°			Q04820	Q04920
Purple 	Cuspid		3.4mm	R/L	0°	0°
	0°	0°			Q04826	Q04926
Yellow 	First/Second Bicuspid		3.4mm	R/L	0°	-17°
	0°	-17°			Q04830	Q04930

Mandibular tubes

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar							
	Double convertible with hook							
0°	-25°	8°	4.2mm	R	A08536	A05712	A08556	A05732
Torque in base.				L	A08537	A05713	A08557	A05733
	Second Molar							
	Single convertible with hook							
0°	-20°	8°	3.3mm	R	A08538	A05714	A08558	A05734
Torque in base.				L	A08539	A05715	A08559	A05735

KITS

Single Case, 6 Brackets

- KQ04804** SWLF® Synergy LUX® .018 hook on cuspid, 3-3 U
- KQ04904** SWLF® Synergy LUX® .022 hook on cuspid, 3-3 U

Single Case, 12 Brackets

- KQ04803** SWLF® Synergy LUX® .018 hook on cuspid, 3-3 U/L
- KQ04903** SWLF® Synergy LUX® .022 hook on cuspid, 3-3 U/L

Single Case, 20 Brackets

- KQ04802** SWLF® Synergy LUX® .018 hook on cuspid/bicuspid, 5-5
- KQ04902** SWLF® Synergy LUX® .022 hook on cuspid/bicuspid, 5-5



Maxillary brackets

ID Color	Angulation	Torque	Width	Right/Left	Arch Slot	
					.018 Arch Slot On Bases	.022 Arch Slot On Bases
Central						
Black	3°	17°	3.4mm	R	M07000	M07100
				L	M07001	M07101
Lateral						
Black	9°	8°	3.3mm	R	M07002	M07102
				L	M07003	M07103
Cuspid						
Black	8°	0°	3.4mm	R	M07006	M07106
				L	M07007	M07107
First/Second Bicuspid						
Black	0°	-7°	3.4mm	R/L	M07010	M07110
				L	M07007	M07107
	Gingivally offset convertible with hook			R/L	M07052	M07152

Mandibular brackets

ID Color	Angulation	Torque	Width	Right/Left	Arch Slot	
					.018 Arch Slot On Bases	.022 Arch Slot On Bases
Central/Lateral						
Red	0°	0°	2.0mm	R/L	M07020	M07120
	Optional	-6°	2.0mm	R/L	M07022	M07122
Cuspid						
Red	0°	0°	3.3mm	R/L	M07026	M07126
	Convertible with hook					
First/Second Bicuspid						
Red	0°	-17°	3.4mm	R/L	M07030	M07130
	Convertible with hook					
	Gingivally offset convertible with hook			R/L	M07062	M07162

KITS

Single Case, 20 Brackets

KM07002	SWLF® Synergy R™ .018 hook on convertible cuspid/bicuspid, 5-5
KM07102	SWLF® Synergy R™ .022 hook on convertible cuspid/bicuspid, 5-5
KM07005	SWLF® Synergy R™ .018 optional mandibular central/lateral (-)δT, hook on convertible cuspid/bicuspid, 5-5
KM07105	SWLF® Synergy R™ .022 optional mandibular central/lateral (-)δT, hook on convertible cuspid/bicuspid, 5-5
KM07008	SWLF® Synergy R™ .018 hook on convertible cuspid/bicuspid, gingival offset bicuspid with optional mandibular central/lateral (-)δT, 5-5
KM07108	SWLF® Synergy R™ .022 hook on convertible cuspid/bicuspid, gingival offset bicuspid with optional mandibular central/lateral (-)δT, 5-5

RMbond® Indirect Bonding System

Indirect bonding is a technique that is used to optimize clinical efficiency and accuracy in placing brackets and tubes. The clinician sets up a case on a model, and through use of a proprietary impression material, transfers the appliances to the patient. Advantages of indirect bonding include:

- Significantly reduced chairtime during the patient bonding procedure, allow doctors to see more patients per day
- Precise bracket placement since the clinician can fully visualize and access the teeth to be bonded
- Increased patient comfort due to the minimum amount of time spent with the mouth open
- Improved clinical comfort, both ergonomically and physically

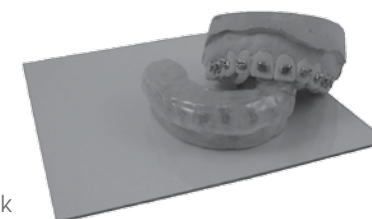
	Order Number	Package Contains
RMbond® System Kit	K00290	
Kit includes:		
Instruction Manual		
2 oz. Separating Medium	J03255	1 bottle
1 ml (1.5 gm) Light Cure Flowable Adhesive Syringes with 10 Tips	J03257	2 syringes 2 ml (3 gm)
6 ml (6.5 gm) Light Cure Resin	J03259	1 bottle
1.9 ml Light Cure Turbo Material Syringe	J03260	1 syringe
30 ml Tray Finish	J03262	1 bottle
50 ml (52 gm) Inner Tray Material Cartridge with 24 Mixing Tips	J00256	6 cartridges 300 ml (312 gm)
Dispensing Gun for Inner Tray Material	J00258	1 each
Model Box	J00260	1 each
Individual Components		
2 oz. Separating Medium	J03255	1 bottle
1 ml (1.5 gm) Light Cure Flowable Adhesive Syringes with 10 Tips	J03257	2 syringes 2 ml (3 gm)
Flowable Adhesive 20 gauge Tips	J03258	25 each
6 ml (6.5 gm) Light Cure Resin	J03259	1 bottle
1.9 ml Light Cure Turbo Material Syringe	J03260	1 syringe
30 ml Tray Finish	J03262	1 bottle
Round Rope Wax 11" (280mm)	J00255	80 per box
50 ml (52 gm) Inner Tray Material Cartridge with 24 Mixing Tips	J00256	6 cartridges 300 ml (312 gm)
Mixing Tips for Inner Tray Material	J00257	24 each
Dispensing Gun for Inner Tray Material	J00258	1 each
Model Box	J00260	2 each



RMbond® Thermoform Sheets

- 5" square, .040" (1mm) thick
- Used for indirect bonding, retainers, bite plates, hard outer transfer tray
- Protective blue film on both sides.

J00375	10pk
J00376	100pk





Synergy® System Display Kits

- Use to store SWLF® arch wires for alignment, leveling, space closing, and finishing
- Use to store bracket single-case packs
- Use to store additional arch wires and accessories

	Order Number	Package Contains
SWLF® .018 Synergy® System Kit	K00902	1
SWLF® .018 Synergy <i>fx</i>® System Kit	K01902	1

K00902 and K01902 kits each contain:

ALIGNMENT			
ALIGNMENT/LEVELING	Thermal NiTi .017 x .025 Maxillary Arch	E02012	1 package of 10
	Thermal NiTi .016 x .022 Mandibular Arch	E02011	1 package of 10
SPACE CLOSING	Stainless Steel .017 x .025 Maxillary Arch	E02032	1 package of 10
	Stainless Steel .016 x .022 Mandibular Arch	E02031	1 package of 10
FINISHING	BETA III Titanium .017 x .025 Maxillary Arch	E02050	1 package of 10
	BETA III Titanium .017 x .025 Mandibular Arch	E02051	1 package of 10

K00902 only - also contains:

Synergy® Brackets .018 Hook Cuspid/Bicuspid, 5-5 **KM03802** 10 cases

K01902 only - also contains:

Synergy *fx*® Brackets .018 Hook Cuspid/Bicuspid, 5-5 **KM04802** 10 cases

SWLF® .022 Synergy® System Kit	K00922	1
SWLF® .022 Synergy <i>fx</i>® System Kit	K01922	1

K00922 and K01922 kits each contain:

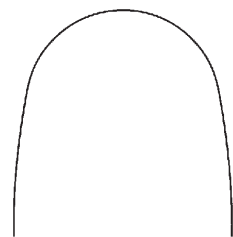
ALIGNMENT			
ALIGNMENT/LEVELING	Thermal NiTi .015 RD Maxillary Arch	E02002	1 package of 10
	Thermal NiTi .015 RD Mandibular Arch	E02003	1 package of 10
SPACE CLOSING	Stainless Steel .019 x .025 Maxillary Arch	E02034	1 package of 10
	Stainless Steel .017 x .025 Mandibular Arch	E02033	1 package of 10
FINISHING	BETA III Titanium .019 x .025 Maxillary Arch	E02052	1 package of 10
	BETA III Titanium .019 x .025 Mandibular Arch	E02053	1 package of 10

K00922 only - also contains:

Synergy® Brackets .022 Hook Cuspid/Bicuspid, 5-5 **KM03902** 10 cases

K01922 only - also contains:

Synergy *fx*® Brackets .022 Hook Cuspid/Bicuspid, 5-5 **KM04902** 10 cases



Alignment: Thermal Nickel-Titanium Arch

- Preformed natural arch shape
- Thermal wire with excellent shape memory generates light, constant and prolonged forces
- Use as an initial arch wire for unscrambling and alignment—easier to ligate in severely misaligned cases
- Pliable at room temperature and superelastic at body temperature
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	E02000	E02001	10
.015	(0.381)	E02002	E02003	10
.017	(0.432)	E02004	E02005	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	E02010	E02011	10
.017 x .025	(0.432 x 0.635)	E02012	E02013	10
.019 x .025	(0.483 x 0.635)	E02014		10

Alignment: Orthonol® Superelastic Nickel-Titanium Arch

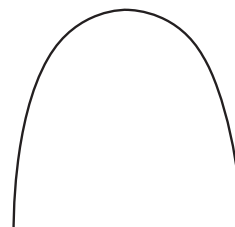
- Preformed natural arch shape
- Provides a continuous gentle force at a constant, uninterrupted force level for tooth movement
- A high force wire for alignment for patients with severe crowding
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	E02060		10

Synergy R™ Orthonol® Expanded Arch

- Broader than natural arch shape to provide greater expansion
- Superelastic nickel-titanium
- Universal—one arch wire for both maxillary and mandibular
- Permanent midline etchmarks: Three for maxillary, one for mandibular

Inch	Size (mm)	Maxillary/Mandibular	Package Contains
ROUND			
.013	(0.330)	E07000	10
.015	(0.381)	E07001	10

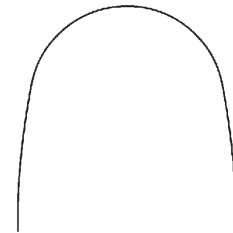




Leveling: Curve of Spee Nickel-Titanium Arch

- Use to level excessive overbite or close anterior open bite
- Wire control through positioning of intermaxillary elastics: posterior for greater anterior intrusion, and anterior for posterior intrusion
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
.016 x .022	(0.406 x .559)		E02021	10
.017 x .025	(0.432 x .635)	E02022	E02023	10



Space Closing: Stainless Steel Arch

- Preformed natural arch shape
- Use for its ability to combine rigidity to achieve and retain torque with an excellent surface for sliding
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

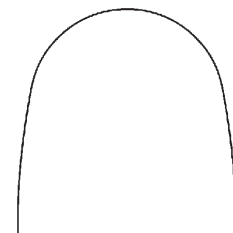
Inch	Size (mm)	Maxillary	Mandibular	Package Contains
.016 x .022	(0.406 x .559)		E02031	10
.017 x .025	(0.432 x .635)	E02032	E02033	10
.019 x .025	(0.483 x .635)	E02034	E02035	10



Finishing: Braided Stainless Steel Arch

- Preformed natural arch shape
- Use when minor detailing is needed and torque can be maintained
- Braided stainless steel has eight strands of wire
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
.017 x .025	(0.432 x .635)	E02040	E02041	10
.019 x .025	(0.483 x .635)	E02042	E02043	10



Finishing: Beta III Titanium Arch

- No nickel content
- Preformed natural arch shape
- Use to ensure that the occlusion settles, to maintain torque, and to correct small final irregularities
- Titanium-Molybdenum-based alloy
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
.017 x .025	(0.432 x .635)	E02050	E02051	10
.019 x .025	(0.483 x .635)	E02052	E02053	10



Crimpable Hooks

- Designed to be crimped on to rectangular arch wire sizes (.016 x .022, .017 x .025, and .019 x .025)
- Use to convert an arch wire into a distalization wire or a closing arch loop

	Order Number	Package Contains
Crimpable Hook, MIM stainless steel	A00129	10
Long Crimpable Hook, MIM stainless steel	A00130	10



Crimpable Hook Pliers

- Use to hold and compress Crimpable Hooks onto rectangular arch wires
- Surgical stainless steel

	Order Number	Package Contains
Apex Series™	T00130	1
Schweickhardt	i00129	1



Step Plier

- Double-sided offset beak for bayonet bends
- Creates right hand or left hand step-up or step-downs at .5mm or 1mm increments
- Surgical Stainless steel

	Order Number	Package Contains
.5mm	T00132	1
1mm	T00134	1

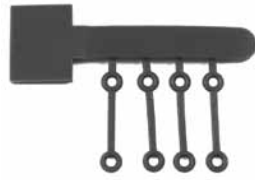


Cap Removal Plier

- This precision stainless steel instrument uses joint plier transfer to shear off convertible caps effortlessly, and with one fluid motion
- The slender rail design allows doctors to easily access the buccal region with little obstruction
- The blade tips feature a filleted design allowing for an easy, low-force cap removal
- Can be used on any convertible buccal tubes as well as convertible brackets
- Each packaged instrument will include two replacement blades

	Order Number	Package Contains
Cap Removal Plier, 2 Replacement Blades	T01200	1
Replacement Blades for Cap Removal Plier	T01201	5 each

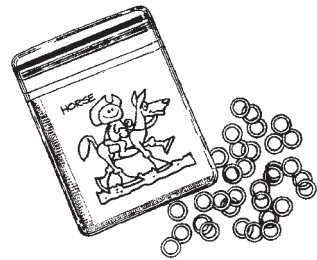




Elastomeric Modules

- Ligature ties with connecting bridges to close intra arch space
- Use to rotate individual teeth and connecting hooks
- Provides continuous gentle forces

Size Module to Module	Gray	Clear	Package Contains
7mm	J00331	J00330	100
10mm	J00333	J00332	100



Energy Pak™ Elastics

- Superior quality, pure latex (contains natural rubber latex which may cause allergic reactions)
- Use for posterior, anterior, and midline correction
- Packaged in illustrated zip-lock bags for dispensing convenience
- 100 elastics per bag, 20 bags to each package (approx. 2,000 elastics)

Force Values		1/8"	3/16"	1/4"	5/16"	3/8"
Ounce pull equals three times slack diameter						
		0.32cm	0.48cm	0.64cm	0.79cm	0.95cm
Heavy	99 gm (3.5 oz.)	 surfboard J-01120	 canoe J-01121	 sailboat J-01122	 speedboat J-01123	 submarine J-01124

Compression Spring (Open Coil)

- Constant force superelastic coil spring

Coil Spring Wire Size (Inch)	Inside Diameter (Inch)	(mm)	Length	Order Number	Package Contains
.012" x	.045"	(0.305 x 1.143)	7" (17.8mm)	F00302	3

Closed Coil Spring with Oval End

- Stainless steel eyelets are attached to each end of the spring to easily engage hooks
- Features outer-perimeter flatness, allowing gripping versatility and ease of placement

Coil Spring Wire Size	x Inside Diameter	Length (mm)	Order Number	Package Contains
.010" x	.030"	(8mm)	G00305	Pkg of 10
.010" x	.030"	(10mm)	G00306	Pkg of 10
.010" x	.030"	(12mm)	G00307	Pkg of 10

Distalizing Spring (Stop Wound Coil)

- Distalizes molars without use of headgear
- Slides easily over any arch wire
- Cut to any desired length

Coil Spring Wire Size (Inch)	Inside Diameter (Inch)	(mm)	Length (Inch/mm)	Order Number	Package Contains
.010" x	.045"	(0.254 x 1.143)	7" (17.8mm)	F00340	3

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Mountain stream in Colorado's Front Range.





Notes, Quotes and Anecdotes

Quotes by Helen Keller

"Alone we can do so little; together we can do so much."

"One cannot consent to creep when one has an impulse to soar."

"If you turn your face to the sunshine and you cannot see the shadow."

"The greatest tragedy in life is people who have sight but no vision."

"Walking with a friend in the dark is better than walking alone in the light."

"It is with this strength that you in a shattered world shall step out into the light."

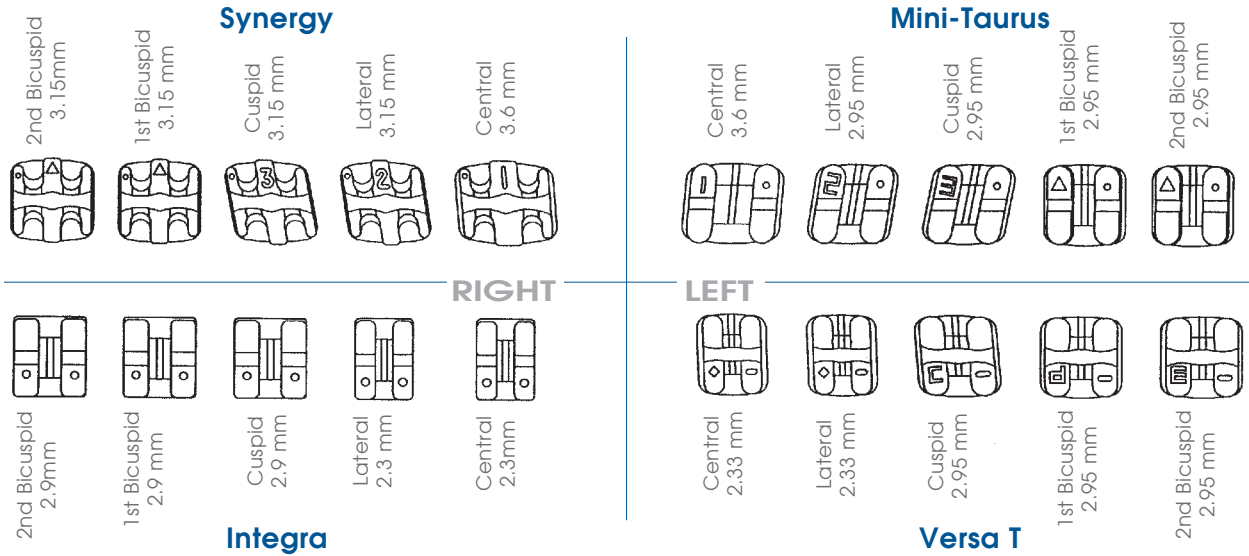
"Optimism is the faith that leads to achievement. Nothing can be done without hope and confidence."

"Life is a succession of lessons which must be lived to be understood."

"It is not so long to accomplish a great and noble task, but it is very often only to accomplish small tasks as if they were great and noble."

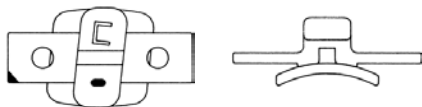
Synergy®, Versa T®, Integra™ and Mini-Taurus® Bracket Dimensions Mesial-Distal

MAXILLARY

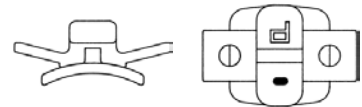


Mini-Taurus® Design/RMO version of Alexander Vari-Simplex

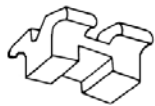
Land Bracket



Lewis Bracket



Auxiliary Edgewise



Vertical slot .018 x .046

Versa T

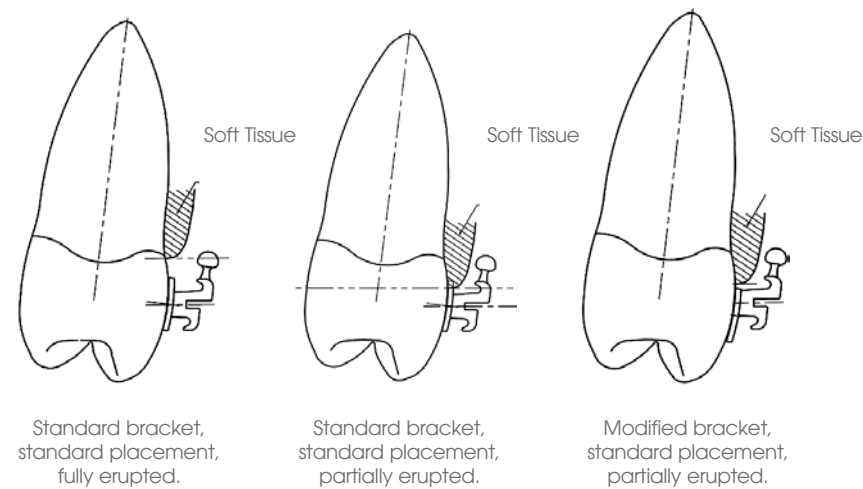


Vertical slot .020 x .020

Early treatment clinicians using fixed appliance systems reported difficulty in bonding the partially erupted 1st and 2nd bicuspids using conventional brackets. This situation can cause soft tissue impingement. (Please see illustrations below.)

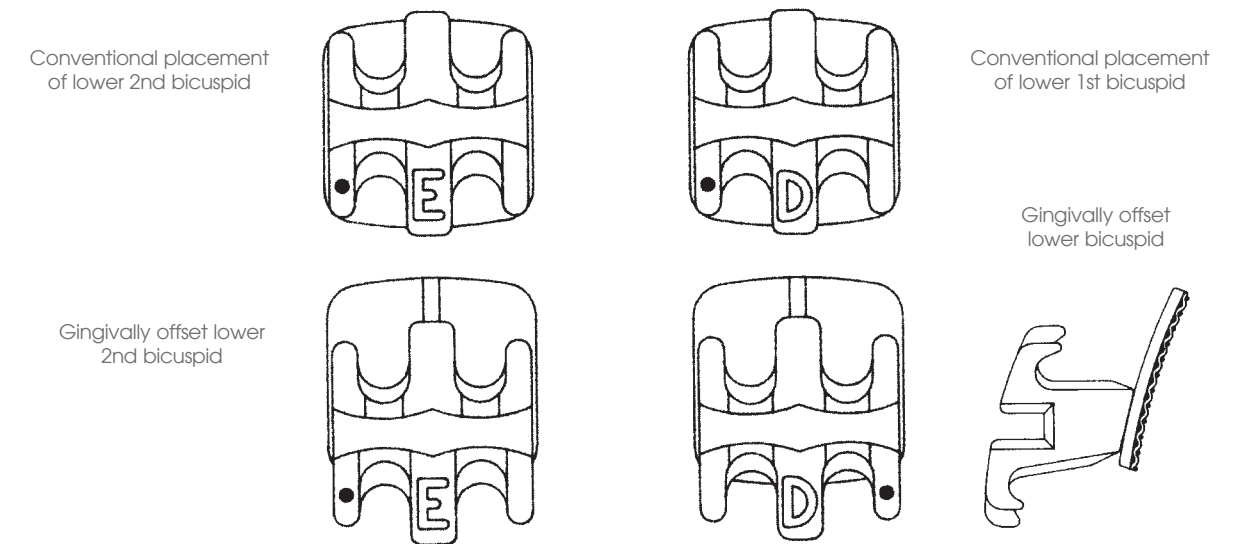
In 1992, RMO® introduced its first gingivally offset base on upper bicuspid bracket in the Bench Bioprogressive® system to help avoid soft tissue impingement. Early bracket placement helps expedite the bicuspid's full eruption.

These brackets are also available in the RMO Synergy® bracket design.



The gingivally offset bracket option has proven very successful and has been carried over to both upper and lower bicuspids in many of RMO's Synergy® series. The clinician is able to bond the bicuspids earlier. In doing so, the

tendency for the bicuspid brackets to end up too far occlusally is eliminated. The gingivally offset bonding base (relative to the bracket) also reduces interference and measurably decreases bond failure.

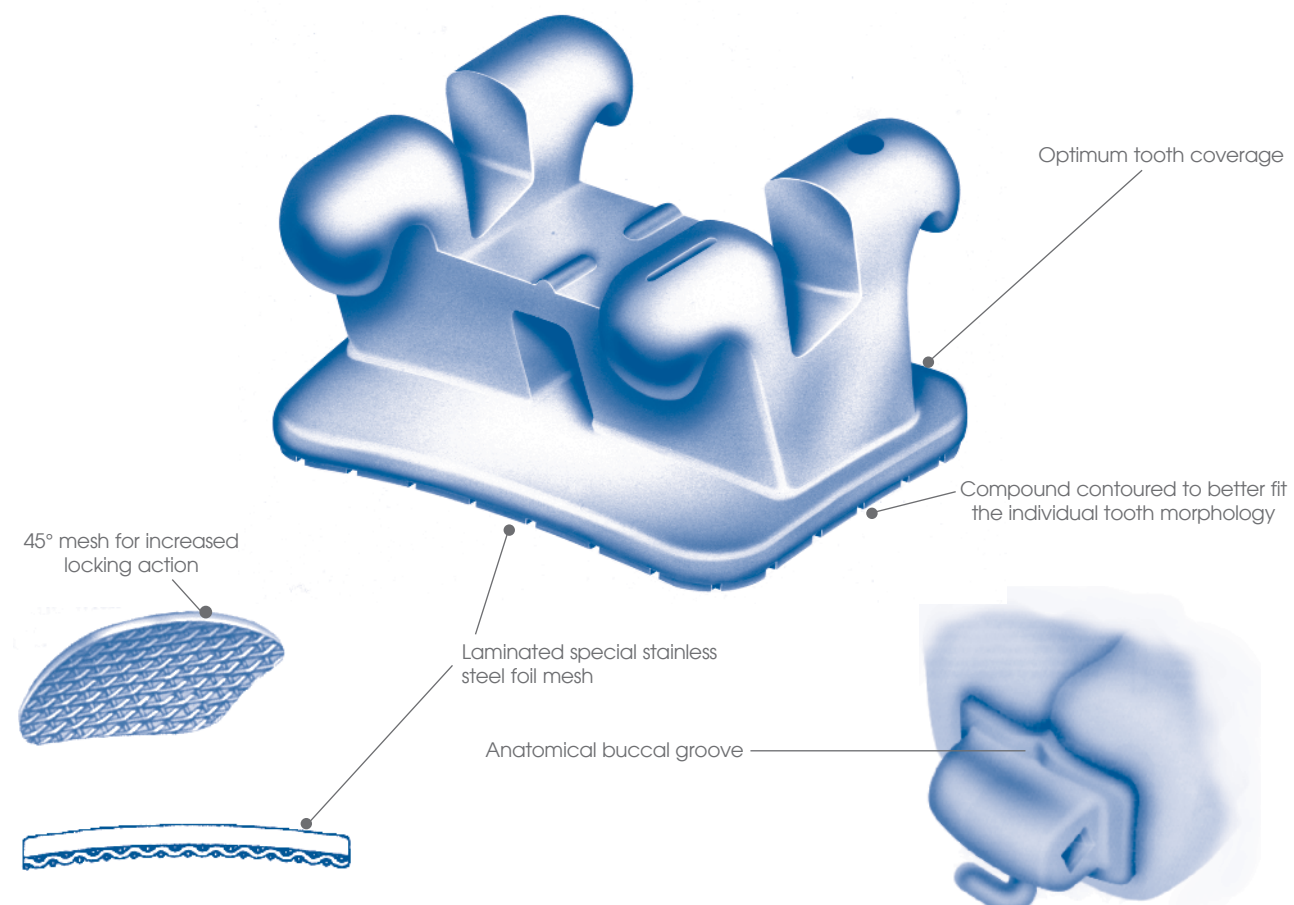


NOTE: For double and triple tubes - the auxiliary arch slot and round tube will be called out if different from main arch slot.

RMO® offers a large variety of choices for bonding brackets or tubes on a base in all techniques. The number of offerings of brackets or tubes on anatomically shaped bases is significantly increased. Brackets and tubes are brazed to a base using gold solder or silver solder. These bases are RMO®'s Contur Lok™. This section describes the availability of brackets and tubes on bases in the column label "On Bases."

Contur Lok bases come in multiple sizes, including anatomical sizes with developmental grooves. The bonding base is a laminate of stainless steel foil to an 80 x 80 mesh. Both mesial-distal and occlusal-gingival contouring of the base assure maximum contact area for bonding. The mesh is oriented at 45°, which enhances its locking action.

- Contur Lok bases provide optimum coverage of the tooth over the entire "footprint" of the bracket or tube.
- Contur Lok bases have compound curvature to fit mesial-distal and occlusal-gingival morphology of the tooth surface.
- Contur Lok bases cover the tooth area under bracket wings, which can be food-traps, and protect them from plaque build-up.
- Contur Lok provides a 45° orientation of the mesh resulting in more mesh openings on the base and increased tooth retention. Greater mechanical retention of adhesive to the base occurs due to the larger number of mesh openings.
- Contur Lok is brazed to brackets or tubes which maintains the mesh intact, unlike welding which destroys a portion of the mesh.
- Contur Lok bases have a center indicator mark for fast, accurate bracket or tube positioning.



Synergy®

The Synergy® bracket design is the most versatile, active bracket ever. It brings you more treatment control options than conventional edge-wise brackets. It reduces friction dramatically and total treatment duration. All of this comes together in a very low profile patented Synergy design.

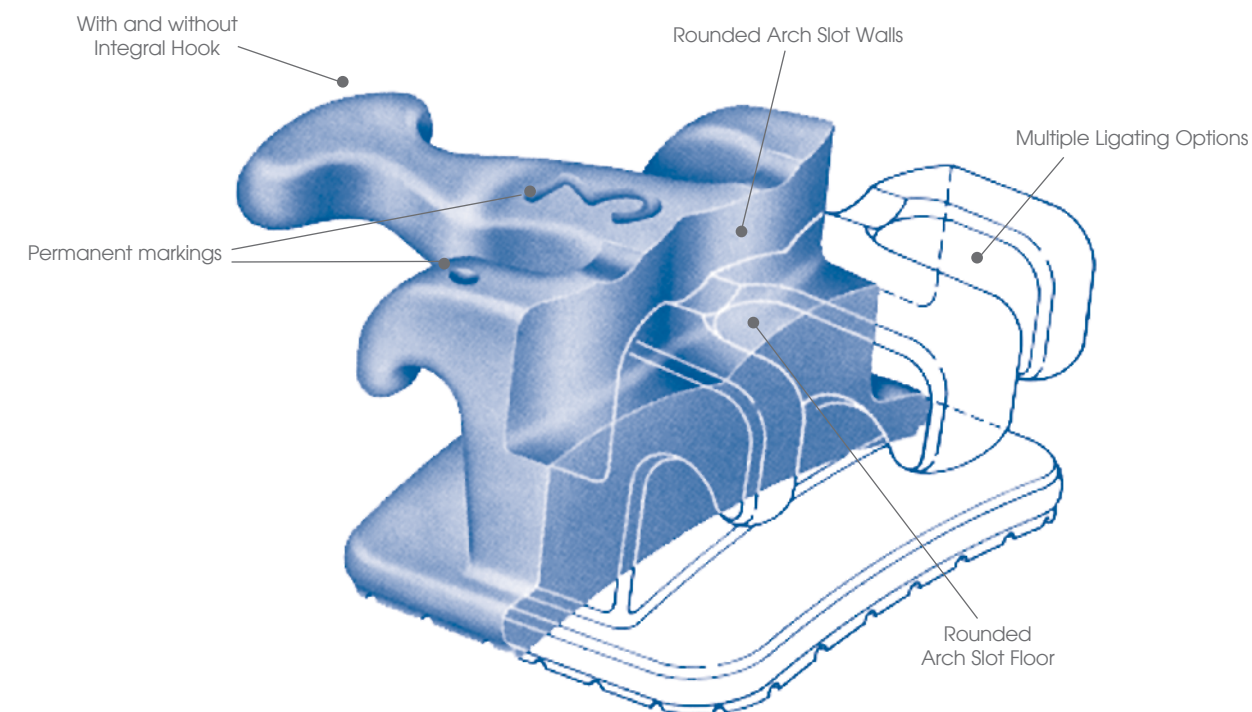
- Synergy's new rounded arch slot walls reduce binding and friction, giving a gentler, more continuous force. Treatment time is faster and is comfortable to the patient.
- Synergy's new rounded arch slot floor reduces friction since the arch will contact the floor at only two points
- Synergy's new round arch slot walls and floors allow tangential contact of the arch wire, thus avoiding sharp binding as the arch wire enters or exits through slot. It also increases the effective inter-bracket distance.
- The Synergy bracket design offers ligation options never available before (available through RMO® only).
- Minimum friction ligation
- Conventional ligation

- Maximum rotation ligation
- Minimal rotation ligation

Synergy is manufactured in the Metal Injection Molding (MIM) process. The strongest, smoothest, most rounded appliances available. Several university research studies have shown the Synergy bracket reduces friction dramatically.

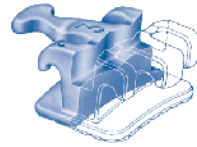
Synergy is available in the most popular techniques:

- Straight Wire Low Friction (SWLF®)
- SWLF Synergy R™
- RMO®'s version of Roth Straight Wire System
- Bench Bioprogressive® Preadjusted System
- Ricketts® Classic Bioprogressive® System
- Ricketts® Original Standard Bioprogressive® System
- RMO®'s Trimorphic® Preadjusted System
- RMO®'s Version of Level Anchorage (Root) System
- Standard Edgewise System
- Tri-Wing Broussard™ System







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SYNERGY® DESIGN
STRAIGHT WIRE LOW FRICTION (SWLF®)



Maxillary brackets

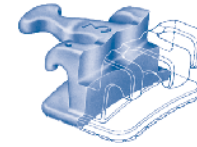
						.018 Arch Slot		.022 Arch Slot		
						On Bases		On Bases		
	Angulation	Torque	Rotation	Width	Right/Left					
Black 	Central									
	3°	17°	0°	3.6mm	R	M03800	M03900			
					L	M03801	M03901			
Black 	Lateral									
	9°	8°	0°	3.2mm	R	M03802	M03902			
					L	M03803	M03903			
Black 	Cuspid									
	8°	0°	0°	3.2mm	R	M03806	M03906			
	With hook					L	M03807	M03907		
Black 	First/Second Bicuspid									
	0°	-7°	2° DO	3.2mm	R	M03810	M03910			
	With hook					L	M03811	M03911		

Maxillary tubes




							.018 Arch Slot		.022 Arch Slot		
							On Bases		On Bases		
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
	First Molar										
	Triple convertible with hook										
	0°	-14°	10°	4.2mm	.045 occlusal	R	A08532	A05708	A08552	A05728	
	Torque in base.						L	A08533	A05709	A08553	A05729
	Second Molar										
	Single convertible with hook										
	0°	-14°	10°	3.3mm		R	A08534	A05710	A08554	A05730	
	Torque in base.						L	A08535	A05711	A08555	A05731

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SYNERGY® DESIGN
STRAIGHT WIRE LOW FRICTION (SWLF®)



Mandibular brackets

						.018 Arch Slot		.022 Arch Slot		
						On Bases		On Bases		
	Angulation	Torque	Rotation	Width	Right/Left					
	Central/Lateral									
	0°	0°	0°	2.0mm	R/L	M03820	M03920			
	Optional Low Profile							R/L	M03822	M03922
	Cuspid									
	With hook									
	0°	0°	0°	3.2mm	R/L	M03826	M03926			
Red 	First/Second Bicuspid									
	With hook									
	0°	-17°	4° DO	3.2mm	R	M03830	M03930			
						L	M03831	M03931		

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot	
							On Bases		On Bases	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
	First Molar									
	Double convertible with hook									
	0°	-25°	8°	4.2mm	R	A08536	A05712	A08556	A05732	
	Torque in base.						L	A08537	A05713	A08557
	Second Molar									
	Single convertible with hook									
	0°	-20°	8°	3.3mm	R	A08538	A05714	A08558	A05734	
	Torque in base.						L	A08539	A05715	A08559

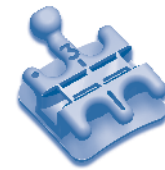
KITS

Single Case, 20 Brackets





- KM03802** SWLF® Synergy® .018 hook on cuspid/bicuspid, 5-5
- KM03902** SWLF® Synergy® .022 hook on cuspid/bicuspid, 5-5
- KM03805** SWLF® Synergy® .018 low profile mandibular central/lateral hook on cuspid/bicuspid, 5-5
- KM03905** SWLF® Synergy® .022 low profile mandibular central/lateral hook on cuspid/bicuspid, 5-5

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SWLF® SYNERGY R™ DESIGN
 CONVERTIBLE CUSPID/BICUSPID



Maxillary brackets

	Angulation	Torque	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	On Bases	On Bases	On Bases
Black 	3°	17°	3.4mm	R	M07000	M07100		
				L				
Black 	9°	8°	3.3mm	R	M07002	M07102		
				L				
Black 	8°	0°	3.4mm	R	M07006	M07106		
				L				
Black 	0°	-7°	3.4mm	R/L	M07010	M07110		

Maxillary tubes




	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
							On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	0°	-10°	0°	4.5mm		R	A08730	A06730	A08734	A06734
						L				
	0°	-10°	10°	4.5mm		R	A18750		A18754	
						L				
	0°	-10°	0°	3.5mm		R	A08732	A06732	A08736	A06736
						L				
	0°	-10°	10°	3.5mm		R	A18752		A18756	
						L				

fixedappliances



SWLF® SYNERGY R™ DESIGN
 CONVERTIBLE CUSPID/BICUSPID



Mandibular brackets

	Angulation	Torque	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	On Bases	On Bases	On Bases
Red 	0°	0°	2.0mm	R/L	M07020	M07120		
Red 	0°	-6°	2.0mm	R/L	M07026	M07126		
Red 	0°	-17°	3.4mm	R/L	M07030	M07130		

Mandibular tubes

	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
							On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	0°	-25°	0°	4.5mm		R	A08740	A06740	A08744	A06744
						L				
	0°	-25°	5°	4.5mm		R	A18760		A18764	
						L				
	0°	-25°	0°	3.5mm		R	A08742	A06742	A08746	A06746
						L				
	0°	-25°	5°	3.5mm		R	A18762		A18766	
						L				

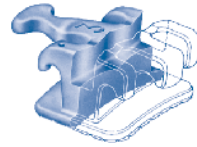
KITS

Single Case, 20 Brackets







- KM07002** SWLF® Synergy R™ .018 hook on convertible cuspid/bicuspid, 5-5
- KM07102** SWLF® Synergy R™ .022 hook on convertible cuspid/bicuspid, 5-5
- KM07005** SWLF® Synergy R™ .018 optional mandibular central/lateral (-)δT, hook on convertible, cuspid/bicuspid, 5-5
- KM07105** SWLF® Synergy R™ .022 optional mandibular central/lateral (-)δT, hook on convertible, cuspid/bicuspid, 5-5
- KM07008** SWLF® Synergy R™ .018 hook on convertible cuspid/bicuspid, gingival offset bicuspids with optional mandibular central/lateral (-)δT, 5-5
- KM07108** SWLF® Synergy R™ .022 hook on convertible cuspid/bicuspid, gingival offset bicuspids with optional mandibular central/lateral (-)δT, 5-5

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM










Maxillary brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot		
						On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands	
 Black	Central									
	5°	12°	0°	3.6mm	R	M02300		M02400		
					L	M02301		M02401		
 Black	Lateral									
	9°	8°	0°	3.2mm						
	Without hook					R	M02302		M02402	
						L	M02303		M02403	
	With hook					R	M02316		M02416	
						L	M02317		M02417	
 Black	Cuspid									
	11°	0°	4° MO	3.2mm						
	Without hook					R	M02304		M02404	
						L	M02305		M02405	
	With hook					R	M02306		M02406	
						L	M02307		M02407	
 Black	First/Second Bicuspid									
	0°	-7°	2° DO	3.2mm						
	Without hook					R	M02308	A02308	M02408	A02408
						L	M02309	A02309	M02409	A02409
	With hook					R	M02310	A02310	M02410	A02410
						L	M02311	A02311	M02411	A02411
	Gingivally Offset without hook					R	M02348		M02448	
						L	M02349		M02449	
	Gingivally Offset with hook					R	M02350		M02450	
						L	M02351		M02451	

fixedappliances

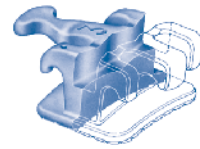
SYNERGY® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM






Maxillary tubes

	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot		
							On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
	First Molar										
	Single convertible with hook										
	0°	-10°	15°	3.8mm		R	A08634	A05664	A08636	A05692	
	Torque in base.						L	A08635	A05665	A08637	A05693
	First Molar										
	Double convertible with hook										
	0°	-14°	14°	3.8mm	.045 gingival	R	A08600	A05650	A08620	A05670	
	Torque in base.						L	A08601	A05651	A08621	A05671
	First Molar										
	Double convertible with ball hook										
	0°	-14°	14°	4.2mm	.045 occlusal	R	A08602	A05652	A08622	A05672	
	Torque in base.						L	A08603	A05653	A08623	A05673
	First Molar										
	Double convertible with hook										
	0°	-14°	14°	3.8mm		R	A08684	A05684	A08686	A05686	
							L	A08685	A05685	A08687	A05687
	First Molar										
	Double with hook without cap										
	0°	-14°	14°	3.8mm		R	A08688	A05688	A08690	A05690	
	Torque in base.						L	A08689	A05689	A08691	A05691
	First Molar										
	Triple convertible with hook										
	0°	-14°	14°	3.8mm	.045 occlusal	R	A08604	A05654	A08624	A05674	
	Torque in base.						L	A08605	A05655	A08625	A05675
	Second Molar										
	Single with hook										
	0°	-14°	14°	3.3mm		R	A08606	A05656	A08626	A05676	
							L	A08607	A05657	A08627	A05677

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets						.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Rotation	Width	Right/Left	On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands	
Red 	Central								
	2°	-1°	0°	2.2mm	R	M02320	M02420		
				L	M02321		M02421		
Red 	Lateral								
	2°	-1°	0°	2.2mm					
	Without hook				R	M02322	M02422		
					L	M02323	M02423		
	With hook				R	M02338	M02438		
					L	M02339	M02439		
Red 	Cuspid								
	5°	-11°	2° MO	3.2mm					
	Without hook				R	M02324	M02424		
					L	M02325	M02425		
	With hook				R	M02326	M02426		
					L	M02327	M02427		
Red 	First Bicuspid								
	0°	-17°	4° DO	3.2mm					
	Without hook				R	M02328	A02328	M02428	A02428
					L	M02329	A02329	M02429	A02429
	With hook				R	M02330	A02330	M02430	A02430
					L	M02331	A02331	M02431	A02431
	Gingivally Offset without hook				R	M02368		M02468	
					L	M02369		M02469	
	Gingivally Offset with hook				R	M02370		M02470	
					L	M02371		M02471	
	Red 	Second Bicuspid							
		0°	-22°	4° DO	3.2mm				
Without hook				R	M02332	A02332	M02432	A02432	
				L	M02333	A02333	M02433	A02433	
With hook				R	M02334	A02334	M02434	A02434	
				L	M02335	A02335	M02435	A02435	
Gingivally Offset without hook				R	M02372		M02472		
				L	M02373		M02473		
Gingivally Offset with hook				R	M02374		M02474		
				L	M02375		M02475		

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM

Mandibular tubes										
Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	.018 Arch Slot		.022 Arch Slot		
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
First Molar										
Single convertible with hook										
-1°	-30°	0°	3.8mm		R	A08638	A05666	A08640	A05694	
Not preangulated. Torque in base.						L	A08639	A05667	A08641	A05695
First Molar										
Double convertible with hook										
-1°	-30°	4°	3.8mm		R	A08608	A05658	A08628	A05678	
Not preangulated. Torque in base.						L	A08609	A05659	A08629	A05679
First Molar										
Triple with hook										
-1°	-30°	4°	3.8mm	.045 occlusal	R	A08610	A05660	A08630	A05680	
Not preangulated. Torque in base.						L	A08611	A05661	A08631	A05681
Second Molar										
Single with hook										
-1°	-30°	4°	3.3mm		R	A08612	A05662	A08632	A05682	
Not preangulated.						L	A08613	A05663	A08633	A05683

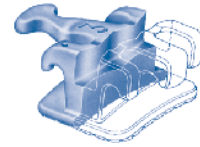
KITS

Single Case, 20 Brackets







KM02300	Roth Synergy® .018 without hook, 5-5
KM02400	Roth Synergy® .022 without hook, 5-5
KM02301	Roth Synergy® .018 hook on cuspid, 5-5
KM02401	Roth Synergy® .022 hook on cuspid, 5-5
KM02302	Roth Synergy® .018 hook on cuspid/bicuspid, 5-5
KM02402	Roth Synergy® .022 hook on cuspid/bicuspid, 5-5

fixedappliances

SYNERGY® DESIGN
BENCH BIOPROGRESSIVE® PREADJUSTED SYSTEM



Maxillary brackets

						.018 Arch Slot	
	Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Central							
Black 	3°	17°	0°	3.6mm	R	M02700	
					L	M02701	
Lateral							
Black 	10°	11°	0°	3.2mm	R	M02702	
					L	M02703	
Cuspid							
	8°	5°	0°	3.2mm			
Black 	Without hook				R	M02704	
					L	M02705	
	With hook				R	M02706	
					L	M02707	
First/Second Bicuspid							
	0°	-7°	2° DO	3.2mm			
Black 	Without hook				R	M02708	
					L	M02709	
	With hook				R	M02710	
					L	M02711	
	Gingivally Offset without hook				R	M02748	
					L	M02749	
	Gingivally Offset with hook				R	M02750	
					L	M02751	

fixedappliances

SYNERGY® DESIGN
BENCH BIOPROGRESSIVE® PREADJUSTED SYSTEM

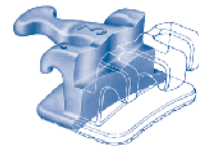
Maxillary tubes

							.018 Arch Slot		
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands		
First Molar									
Single convertible tube/bracket with hook									
0°	-10°	15°	3.8mm		R	A08294	A01194		
Torque in base.						L	A08295	A01195	
First Molar									
Double convertible with hook									
0°	-10°	15°	3.8mm		R	A08078	A01178		
Auxiliary Tube: 0° torque, 0° DO						L	A08079	A01179	
Torque in base.									
First Molar									
Triple convertible with hook									
0°	-10°	15°	3.8mm	.045 occlusal	R	A08060	A01160		
Auxiliary Tube: 0° torque, 0° DO						L	A08061	A01161	
Headgear Tube: 0° distal offset.									
Torque in base.									
Second Molar									
Single with hook									
0°	-10°	12°	3.3mm		R	A08062	A01162		
						L	A08063	A01163	











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SYNERGY® DESIGN
BENCH BIOPROGRESSIVE® PREADJUSTED SYSTEM







Mandibular brackets

						.018 Arch Slot	
	Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Red 	Central/Lateral						
	2°	-1°	0°	2.0mm	R	M02720	
					L	M02721	
Red 	Cuspid						
	3°	3°	0°	3.2mm			
	Without hook					R	M02724
						L	M02725
	With hook					R	M02726
						L	M02727
Red 	First Bicuspid						
	0°	-15°	0°	3.2mm			
	Without hook					R	M02728
						L	M02729
	With hook					R	M02730
						L	M02731
	Gingivally Offset without hook					R	M02768
						L	M02769
	Gingivally Offset with hook					R	M02770
						L	M02771
Red 	Second Bicuspid						
	0°	-22°	4° DO	3.2mm			
	Without hook					R	M02732
						L	M02733
	With hook					R	M02734
						L	M02735
	Gingivally Offset without hook					R	M02772
						L	M02773
	Gingivally Offset with hook					R	M02774
						L	M02775

fixedappliances

SYNERGY® DESIGN
BENCH BIOPROGRESSIVE® PREADJUSTED SYSTEM

Mandibular tubes

							.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar							
	Single convertible tube/bracket with hook							
	-5°	-27°	6°	3.8mm	R	A08298	A01198	
					L	A08299	A01199	
	Single with hook without cap							
	-5°	-27°	6°	3.8mm	R	A08296	A01196	
	Preangulated. Torque in base.					L	A08297	A01197
	First Molar							
	Double convertible with hook							
	-5°	-27°	6°	3.8mm	R	A08064	A01164	
	Auxiliary Tube: 0° angulation, 0° torque, 0° offset					L	A08065	A01165
	Preangulated. Torque in base.							
	Second Molar							
	Single with hook							
	-5°	-27°	6°	3.3mm	R	A08066	A01166	
	Preangulated.					L	A08067	A01167

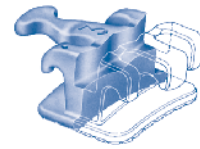
KITS

Single Case, 20 Brackets












KM02701	Bench Synergy® .018 hook on cuspid, 5-5
KM02702	Bench Synergy® .018 hook on cuspid/bicuspid, 5-5

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF RICKETTS® CLASSIC BIOPROGRESSIVE® SYSTEM



Maxillary brackets

					.018 Arch Slot	
	Angulation	Torque	Width	Right/Left	On Bases	
Black 	Central 3°	22°	3.6mm	R	M02600	
	Optional 3°	12°		L	M02601	
Black 	Lateral 10°	14°	3.2mm	R	M02602	
	Optional 10°	8°		L	M02603	
Black 	Cuspid 8°	5°	3.2mm	R	M02640	
	Without hook			L	M02641	
	With hook			R	M02642	
				L	M02643	
	Optional High Profile 8°	7°		R	M02604	
	Without hook			L	M02605	
Black 	First Bicuspid 0°	0°	3.2mm	R	M02608	
	Without hook			L	M02609	
Black 	With hook			R	M02648	
				L	M02649	
Black 	Gingivally Offset without hook			R	M02610	
				L	M02611	
Black 	Gingivally Offset with hook			R	M02650	
				L	M02651	
Black 	Second Bicuspid 0°	0°	3.2mm	R	M02612	
	Without hook			L	M02613	
Black 	With hook			R	M02652	
				L	M02653	
Black 	Gingivally Offset without hook			R	M02614	
				L	M02615	
Black 	Gingivally Offset with hook			R	M02654	
				L	M02655	

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SYNERGY® DESIGN RMO® VERSION OF RICKETTS® CLASSIC BIOPROGRESSIVE® SYSTEM

Maxillary tubes*

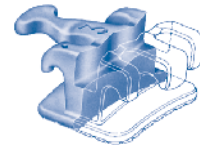
							.018 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	
First Molar								
Triple convertible with hook								
0°	0°	15°	3.8mm	.045 gingival	R	A08360	A04960	
					L	A08361	A04961	
Second Molar								
Single with hook								
0°	0°	12°	3.3mm		R	A08382	A04982	
					L	A08383	A04983	











*For more optional Biopgressive® tubes, please refer to the Biopgressive tubes catalog section.

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF RICKETTS® CLASSIC BIOPROGRESSIVE® SYSTEM




Mandibular brackets

					.018 Arch Slot	
Angulation	Torque	Width	Right/Left	On Bases		
 Central/Lateral 0°	0°	2.0mm	R/L	M02620		
Cuspid 3°	3°	3.2mm				
Without hook			R L	M02644 M02645		
 With hook			R L	M02646 M02647		
Optional High Profile 2°	2°					
Without hook			R L	M02624 M02625		
With hook			R L	M02626 M02627		
First Bicuspид 0°	0°	3.2mm				
Without hook			R L	M02628 M02629		
 With hook			R L	M02658 M02659		
 Gingivally Offset without hook			R L	M02630 M02631		
 Gingivally Offset with hook			R L	M02660 M02661		
Second Bicuspид 0°	-14°	3.2mm				
Without hook			R L	M02632 M02633		
 With hook			R L	M02662 M02663		
 Gingivally Offset without hook			R	M02634		
			L	M02635		
 Gingivally Offset with hook			R L	M02664 M02665		

fixedappliances

SYNERGY® DESIGN RMO® VERSION OF RICKETTS® CLASSIC BIOPROGRESSIVE® SYSTEM

Mandibular tubes*

							.018 Arch Slot	
Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands		
 First Molar Double convertible with hook								
-5°	-24°	12°	3.8mm	R	A08364	A04964		
Preangulated. Torque in base.					L	A08365	A04965	
 First Molar Double convertible with hook								
-5°	-24°	12°	3.8mm	R	A08386	A04986		
Auxiliary tube: 0° angulation, 0° torque, 0° DO					L	A08387	A04987	
Preangulated. Torque in base.								
 Second Molar Single with hook								
-5°	-34°	6°	3.3mm	R	A08390	A04990		
Preangulated.					L	A08391	A04991	

*For more optional Biopgressive® tubes, please refer to the Biopgressive tubes catalog section.

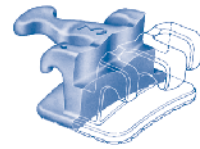
KITS

Single Case, 20 Brackets










KM02610	Ricketts® Classic Synergy® .018 without hook, 5-5
KM02611	Ricketts® Classic Synergy® .018 hook on cuspid, 5-5
KM02612	Ricketts® Classic Synergy® .018 hook on cuspid/bicuspид, 5-5

fixedappliances

SYNERGY® DESIGN
RICKETTS® ORIGINAL STANDARD BIOPROGRESSIVE® SYSTEM



Maxillary brackets

		.018 Arch Slot				
	Angulation	Torque	Width	Right/Left	On Bases	
Black 	Central	0°	3.6mm	R	M02800 M02801	
				L		
Black 	Lateral	8°	3.2mm	R	M02802 M02803	
				L		
Black 	Cuspid	5°	3.2mm	R	M02804 M02805	
	Without hook			L		
Black 	First Bicuspid	0°	3.2mm	R	M02808 M02809 M02848 M02849	
	Without hook			L		
	With hook (No ID color mark)			R		
				L		
	Gingivally Offset without hook			R	M02810 M02811	
		L				
	Gingivally Offset with hook			R	M02850 M02851	
		L				
Black 	Second Bicuspid	0°	3.2mm	R	M02812 M02813 M02852 M02853	
	Without hook			L		
	With hook			R		
				L		
	Gingivally Offset without hook			R	M02814 M02815	
		L				
	Gingivally Offset with hook			R	M02854 M02855	
		L				

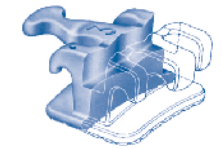
Maxillary tubes*

		.018 Arch Slot							
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar	0°	0°	15°	3.8mm	.045 gingival	R	A08360 A08361	A04960 A04961
	Triple convertible with hook						L		
	Second Molar	0°	0°	12°	3.3mm		R	A08382 A08383	A04982 A04983
	Single with hook					L			









*For more optional Biopressive® tubes, please refer to the Biopressive tubes catalog section.

fixedappliances




SYNERGY® DESIGN
RICKETTS® ORIGINAL STANDARD BIOPROGRESSIVE® SYSTEM



Mandibular brackets

		.018 Arch Slot				
	Angulation	Torque	Width	Right/Left	On Bases	
Red 	Central/Lateral	0°	2.0mm	R/L	M02820	
Red 	Cuspid	5°	3.2mm	R	M02824 M02825	
	Without hook			L		
Red 	First Bicuspid	0°	3.2mm	R	M02828 M02829 M02858 M02859	
	Without hook			L		
	With hook (No ID color mark)			R		
				L		
	Gingivally Offset without hook			R	M02830 M02831	
		L				
	Gingivally Offset with hook			R	M02860 M02861	
		L				
Red 	Second Bicuspid	0°	3.2mm	R	M02832 M02833 M02862 M02863	
	Without hook			L		
	With hook			R		
				L		
	Gingivally Offset without hook			R	M02834 M02835	
		L				
	Gingivally Offset with hook			R	M02864 M02865	
		L				

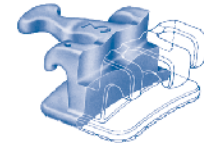
Mandibular tubes

		.018 Arch Slot						
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar	-5°	-24°	12°	3.8mm	R	A08364 A08365	A04964 A04965
	Double convertible with hook Preangulated. Torque in base.					L		
	First Molar	-5°	-24°	12°	3.8mm	R	A08386 A08387	A04986 A04987
	Double convertible with hook Auxiliary tube: 0° angulation, 0° torque, 0° DO Preangulated. Torque in base.					L		
	Second Molar	-5°	-34°	6°	3.3mm	R	A08390 A08391	A04990 A04991
	Single with hook Preangulated.					L		






KITS

Single Case, 20 Brackets



KM02800 Ricketts® Original Synergy® .018 without hook, 5-5

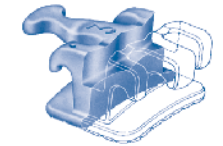


Maxillary brackets





						.018 Arch Slot	
	Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Central							
Black 	3°	22°	0°	3.6mm	R	M02228	
					L	M02229	
Lateral							
Black 	10°	14°	0°	3.2mm	R	M02230	
					L	M02231	
Cuspid							
	8°	5°	0°	3.2mm			
Black 	Without hook				R	M02232	
					L	M02233	
	With hook				R	M02234	
					L	M02235	
First Bicuspid							
	0°	-6°	2° DO	3.2mm			
Black 	Without hook				R	M02208	
					L	M02209	
	With hook				R	M02210	
					L	M02211	
Second Bicuspid							
	0°	-6°	0°	3.2mm			
Black 	Without hook				R/L	M02212	
	With hook				R/L	M02213	

Maxillary tubes



								.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	
First Molar									
	Triple convertible with hook								
	0°	-10°	15°	3.8mm	.045 occlusal	R	A08060	A01160	
	Auxiliary tube: 0° Torque 0° Offset					L	A08061	A01161	
	Headgear tube: 0° Offset								
	Torque in base.								
Second Molar									
	Single with hook								
	0°	-10°	12°	3.3mm		R	A08062	A01162	
						L	A08063	A01163	



Mandibular brackets

					.018 Arch Slot	
	Angulation	Torque	Width	Right/Left	On Bases	
Central/Lateral						
Red 	0°	0°	2.0mm	R/L	M02215	
Cuspid						
	3°	3°	3.2mm			
Red 	Without hook			R	M02236	
				L	M02237	
	With hook			R	M02238	
				L	M02239	
First Bicuspid						
	0°	-15°	3.2mm			
Red 	Without hook			R/L	M02220	
	With hook			R/L	M02221	
Second Bicuspid						
	0°	-20°	3.2mm			
Red 	Without hook			R/L	M02222	
	With hook			R/L	M02223	

Mandibular tubes

							.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	
First Molar								
	Twin with hook (Ricketts®)							
	-5°	-22°	12°	3.8mm	R	A08114	A01032	
	Preangulated.				L	A08115	A01033	
Second Molar								
	Single with hook							
	-5°	-27°	6°	3.3mm	R	A08066	A01166	
	Preangulated.				L	A08067	A01167	

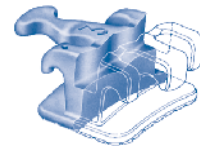
KITS

Single Case, 20 Brackets






KM02220	Brachyfacial Synergy® .018 without hook, 5-5
KM02221	Brachyfacial Synergy® .018 hook on cuspid, 5-5
KM02222	Brachyfacial Synergy® .018 hook on cuspid/bicuspid, 5-5

fixedappliances



SYNERGY® DESIGN
TRIMORPHIC® BIOPROGRESSIVE® SYSTEM – MESOFACIAL



Maxillary brackets

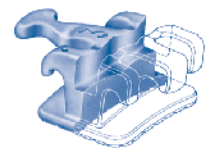
						.018 Arch Slot	
	Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Black 	Central						
	3°	17°	0°	3.6mm	R	M02224	
					L	M02225	
Black 	Lateral						
	10°	11°	0°	3.0mm	R	M02226	
					L	M02227	
Black 	Cuspid						
	8°	0°	0°	3.2mm			
	Without hook				R	M02204	
					L	M02205	
	With hook			R	M02206		
				L	M02207		
Black 	First Bicuspid						
	0°	-6°	2° DO	3.2mm			
	Without hook				R	M02208	
					L	M02209	
	With hook			R	M02210		
				L	M02211		
Black 	Second Bicuspid						
	0°	-6°	0°	3.2mm			
	Without hook				R/L	M02212	
					R/L	M02213	

Maxillary tubes





								.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar								
	Triple convertible with hook								
	0°	-10°	15°	3.8mm	.045 occlusal	R	A08060	A01160	
	Headgear tube: 0° DO					L	A08061	A01161	
	Auxiliary tube: 0° Torque: 0° Offset								
	Torque in base.								
	Second Molar								
	Single with hook								
	0°	-10°	12°	3.3mm		R	A08062	A01162	
					L	A08063	A01163		

fixedappliances



SYNERGY® DESIGN
TRIMORPHIC® BIOPROGRESSIVE® SYSTEM – MESOFACIAL



Mandibular brackets

					.018 Arch Slot	
	Angulation	Torque	Width	Right/Left	On Bases	
Black 	Central/Lateral					
	0°	0°	2.0mm	R/L	M02215	
Red 	Cuspid					
	3°	0°	3.2mm			
	Without hook				R	M02216
					L	M02217
	With hook			R	M02218	
				L	M02219	
Red 	First Bicuspid					
	0°	-15°	3.2mm			
	Without hook				R/L	M02220
					R/L	M02221
Red 	Second Bicuspid					
	0°	-20°	3.2mm			
	Without hook				R/L	M02222
					R/L	M02223

Mandibular tubes

							.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar							
	Twin with hook (Ricketts®)							
	-5°	-22°	12°	3.8mm	R	A08114	A01032	
	Preangulated.					L	A08115	A01033
	Second Molar							
	Single with hook							
	-5°	-27°	6°	3.3mm	R	A08066	A01166	
	Preangulated.					L	A08067	A01167

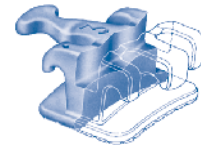
KITS

Single Case, 20 Brackets






- KM02210** Mesofacial Synergy® .018 without hook, 5-5
- KM02211** Mesofacial Synergy® .018 hook on cuspid, 5-5
- KM02212** Mesofacial Synergy® .018 hook on cuspid/bicuspid, 5-5

fixedappliances



SYNERGY® DESIGN
TRIMORPHIC® BIOPROGRESSIVE® SYSTEM – DOLICHOFACIAL



Maxillary brackets

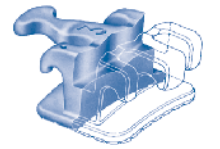
						.018 Arch Slot	
	Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Black 	Central						
	3°	12°	0°	3.6mm	R	M02200	
Black 	Lateral						
	10°	8°	0°	3.2mm	R	M02202	
Black 	Cuspid						
	8°	0°	0°	3.2mm			
	Without hook					R	M02204
	With hook					L	M02205
Black 	First Bicuspid						
	0°	-6°	2° DO	3.2mm			
	Without hook					R	M02208
	With hook					L	M02209
Black 	Second Bicuspid						
	0°	-6°	0°	3.2mm			
	Without hook					R/L	M02212
	With hook					R/L	M02213

Maxillary tubes





								.018 Arch Slot		
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands		
	First Molar									
	Triple convertible with hook									
	0°	-14°	14°	3.8mm	.045 occlusal	R	A08604	A05654		
	Torque in base.							L	A08605	A05655
	Second Molar									
	Single with hook									
	0°	-14°	14°	3.3mm		R	A08606	A05656		
								L	A08607	A05657

fixedappliances



SYNERGY® DESIGN
TRIMORPHIC® BIOPROGRESSIVE® SYSTEM – DOLICHOFACIAL



Mandibular brackets

					.018 Arch Slot		
	Angulation	Torque	Width	Right/Left	On Bases		
Red 	Central/Lateral						
	0°	0°	2.0mm	R/L	M02215		
Red 	Cuspid						
	3°	0°	3.2mm				
	Without hook					R	M02216
	With hook					L	M02217
Red 	First Bicuspid						
	0°	-15°	3.2mm				
	Without hook					R/L	M02220
	With hook					R/L	M02221
Red 	Second Bicuspid						
	0°	-20°	3.2mm				
	Without hook					R/L	M02222
	With hook					R/L	M02223

Mandibular tubes

							.018 Arch Slot			
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands			
	First Molar									
	Double convertible with hook									
	-5°	-27°	6°	3.8mm	R	A08064	A01164			
	Auxiliary tube: 0° angulation, 0° torque, 0° offset							L	A08065	A01165
Preangulated. Torque in base.										
	Second Molar									
	Single with hook									
	-5°	-34°	6°	3.3mm	R	A08390	A04990			
	Preangulated.							L	A08391	A04991

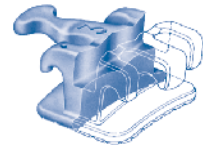
KITS

Single Case, 20 Brackets







- KM02200** Dolichofacial Synergy® .018 without hook, 5-5
- KM02201** Dolichofacial Synergy® .018 hook on cuspid, 5-5
- KM02202** Dolichofacial Synergy® .018 hook on cuspid/bicuspid, 5-5

fixedappliances






SYNERGY® DESIGN RMO® VERSION OF THE LEVEL ANCHORAGE TECHNIQUE PREADJUSTED SYSTEM



Maxillary brackets

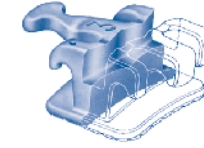
						.018 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Central						
Black 	3°	17°	0°	3.6mm	R	M02500
					L	M02501
Lateral						
Black 	9°	8°	0°	3.2mm	R	M02502
					L	M02503
Cuspid						
Black 	8°	0°	0°	3.2mm		
	Without hook				R	M02504
					L	M02505
First/Second Bicuspid						
Black 	0°	-7°	2° DO	3.2mm		
	Without hook				R	M02508
					L	M02509
	Gingivally Offset without hook				R	M02536
					L	M02537
	Gingivally Offset without hook (small base)				R	M02518
					L	M02519

Mandibular brackets

						.018 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left	On Bases	
Central/Lateral						
Red 	2°	-1°	2.0mm		R	M02520
					L	M02521
Cuspid						
Red 	3°	0°	3.2mm			
	Without hook				R	M02524
					L	M02525
First/Second Bicuspid						
Red 	-5°	-11°	3.2mm			
	Without hook				R	M02528
					L	M02529
	Gingivally Offset without hook				R	M02546
					L	M02547
	Gingivally Offset without hook (small base)				R	M02538
					L	M02539

fixedappliances


SYNERGY® DESIGN STANDARD EDGEWISE BRACKET SYSTEM



Maxillary brackets

					.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Width	Right/Left	On Bases		
Central						
Black 	0°	0°	3.6mm	R/L	M07600	M07620
Lateral						
Black 	0°	0°	3.2mm	R/L	M07601	M07621
Cuspid/Bicuspid						
	0°	0°	3.2mm			
	Without hook			R/L	M07604	M07624
	With hook			R/L	M07606	M07626

Mandibular brackets

					.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Width	Right/Left	On Bases		
Central/Lateral						
	0°	0°	2.0mm	R/L	M07610	M07630
Cuspid/Bicuspid						
	0°	0°	3.2mm			
	Without hook			R/L	M07604	M07624
	With hook			R/L	M07606	M07626

KITS

Single Case, 20 Brackets

KM07600	Standard Edgewise Synergy® .018 without hook, 5-5
KM07620	Standard Edgewise Synergy® .022 without hook, 5-5
KM07601	Standard Edgewise Synergy® .018 hook on cuspid, 5-5
KM07621	Standard Edgewise Synergy® .022 hook on cuspid, 5-5
KM07602	Standard Edgewise Synergy® .018 hook on cuspid/bicuspid, 5-5
KM07622	Standard Edgewise Synergy® .022 hook on cuspid/bicuspid, 5-5



Maxillary/Mandibular brackets



Angulation	Torque	Width	Right/Left	On Bases
.018 Arch Slot Vertical Slot Size: .018 x .020				
Without vertical slot				
0°	0°	2.4mm	R/L	M08000
With vertical slot				
0°	0°	2.4mm	R/L	M08100
Twin wing gingival				

Maxillary/Mandibular brackets



Angulation	Torque	Width	Right/Left	On Bases
.022 Arch Slot Vertical Slot Size: .018 x .020				
Without vertical slot				
0°	0°	2.4mm	R/L	M08040
With vertical slot				
0°	0°	2.4mm	R/L	M08140
Twin wing gingival				

Synergy fx®

A fully functional bracket

Several years ago, the first-generation Synergy® opened eyes to new possibilities in orthodontic treatment efficiency around the world. With generation two, Synergy fx® brings a new standard of treatment efficiency. Synergy fx continues this tradition by allowing light and consistent forces that can be exerted over long periods of time.

Low friction-low force

Patented rounded arch slot walls and floor let the arch wires reach their full potential by minimizing frictional opposition to sliding during the alignment stage. This adds to the effectiveness of the arch wire and contributes to the combined effect of Synergy.

More than meets the eye

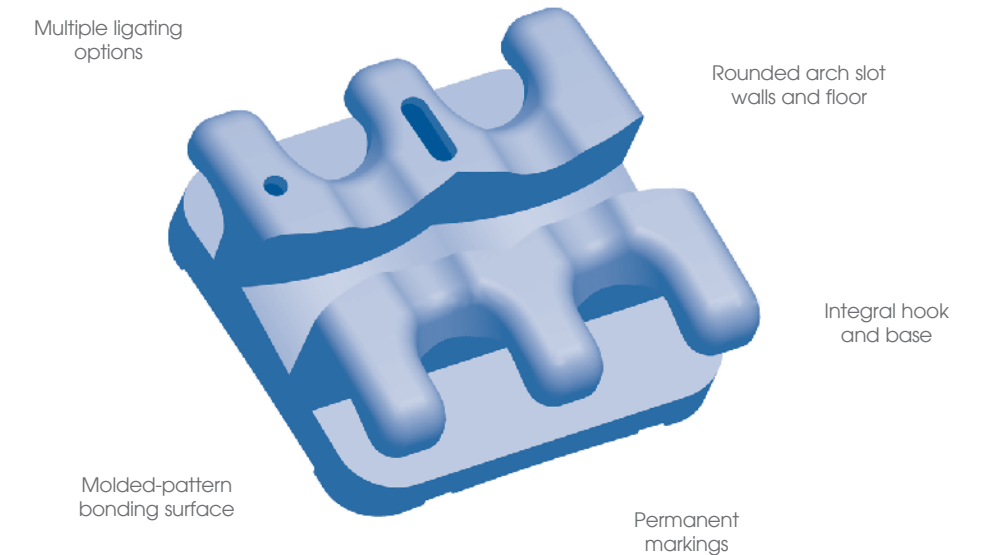
Synergy fx is totally integrated as one unit with built in wings, hooks and base. The integral bonding base eliminates bracket from base separation. Synergy fx has six identical size tie wings for easy ligation, strength and patient comfort. The lower central/lateral brackets are also in the Synergy six tie wings. This assures the quickest possible movement by all the teeth to immediately engage in movement.

More comfort

Synergy fx low friction, light forces along with its low, rounded profile means more comfort. Low profile has less irritation to soft tissue and less interference with the upper teeth.

Available in these techniques:

- Straight Wire Low Force (SWLF®)
- RMO's Version of Roth Straight Wire System



fixedappliances



SYNERGY *fx*® DESIGN
STRAIGHT WIRE LOW FRICTION (SWLF®)



Maxillary brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Central							
Black 	3°	17°	0°	3.5mm	R L	M04800 M04801	M04900 M04901
Lateral							
Black 	9°	8°	0°	3.5mm	R L	M04802 M04803	M04902 M04903
Cuspid							
Black 	8°	0°	0°	3.5mm			
	With hook				R L	M04806 M04807	M04906 M04907
First/Second Bicuspid							
Black 	0°	-7°	2° DO	3.5mm			
	With hook				R L	M04810 M04811	M04910 M04911

Maxillary tubes

						.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
	Triple convertible with hook								
	0°	-14°	10°	4.2mm	.045 occlusal	R	A08532	A05708	A08552
	Torque in base.					L	A08533	A05709	A08553
	Torque in base.					L	A08533	A05709	A08553
Second Molar									
	Single convertible with hook								
	0°	-14°	10°	3.3mm		R	A08534	A05710	A08554
	Torque in base.					L	A08535	A05711	A08555

fixedappliances



SYNERGY *fx*® DESIGN
STRAIGHT WIRE LOW FRICTION (SWLF®)



Mandibular brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Central/Lateral							
Red 	0°	-1°	0°	3.0mm	R/L	M04820	M04920
Cuspid							
Red 	0°	0°	0°	3.5mm	R/L	M04826	M04926
First/Second Bicuspid							
Red 	0°	-17°	4° DO	3.5mm			
	With hook				R L	M04830 M04831	M04930 M04931

Mandibular tubes

						.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Right/Left		On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
	Double convertible with hook								
	0°	-25°	8°	4.2mm	R	A08536	A05712	A08556	A05732
	Torque in base.					L	A08537	A05713	A08557
	Torque in base.					L	A08537	A05713	A08557
Second Molar									
	Single convertible with hook								
	0°	-20°	8°	3.3mm	R	A08538	A05714	A08558	A05734
	Torque in base.					L	A08539	A05715	A08559

KITS

Single Case, 20 Brackets

- KM04802** SWLF® Synergy *fx*® .018 hook on cuspid/bicuspid, 5-5
- KM04902** SWLF® Synergy *fx*® .022 hook on cuspid/bicuspid, 5-5

fixedappliances

SYNERGY fx[®] DESIGN RMO[®] VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

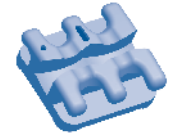
						.018 Arch Slot	.022 Arch Slot	
Angulation	Torque	Rotation	Width	Right/Left				
Black	Central	5°	12°	0°	3.5mm	R L	M09500 M09501	M09600 M09601
Black	Lateral	9°	8°	0°	3.5mm	R L	M09502 M09503	M09602 M09603
Black	Cuspid	10°	2°	4° MO	3.5mm	R L	M09506 M09507	M09606 M09607
Black	First/Second Bicuspid	0°	-7°	2° DO	3.5mm	R L	M09510 M09511	M09610 M09611

Maxillary tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands		
	First Molar	0°	-10°	15°	3.8mm	R L	A08634 A08635	A05664 A05665	A08636 A08637	A05692 A05693	
	First Molar	0°	-14°	14°	3.8mm	.045 gingival	R L	A08600 A08601	A05650 A05651	A08620 A08621	A05670 A05671
	First Molar	0°	-14°	14°	4.2mm	.045 occlusal	R L	A08602 A08603	A05652 A05653	A08622 A08623	A05672 A05673
	First Molar	0°	-14°	14°	3.8mm		R L	A08684 A08685	A05684 A05685	A08686 A08687	A05686 A05687
	First Molar	0°	-14°	14°	3.8mm		R L	A08688 A08689	A05688 A05689	A08690 A08691	A05690 A05691
	First Molar	0°	-14°	14°	3.8mm	.045 occlusal	R L	A08604 A08605	A05654 A05655	A08624 A08625	A05674 A05675
	Second Molar	0°	-14°	14°	3.3mm		R L	A08606 A08607	A05656 A05657	A08626 A08627	A05676 A05677

fixedappliances

SYNERGY fx[®] DESIGN RMO[®] VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

						.018 Arch Slot	.022 Arch Slot	
Angulation	Torque	Rotation	Width	Right/Left				
Red	Central/Lateral	0°	-1°	0°	3.0mm	R/L	M09520	M09620
Red	Cuspid	7°	-11°	2° MO	3.5mm			
Red	Cuspid	With hook				R L	M09526 M09527	M09626 M09627
Red	First Bicuspid	0°	-17°	4° DO	3.5mm			
Red	First Bicuspid	With hook				R L	M09530 M09531	M09630 M09631
Red	Second Bicuspid	0°	-22°	4° DO	3.5mm	R L	M09534 M09535	M09634 M09635

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands		
	First Molar	0°	-10°	15°	3.8mm						
	First Molar	-1°	-30°	0°	3.8mm	R L	A08638 A08639	A05666 A05667	A08640 A08641	A05694 A05695	
	First Molar	0°	-14°	14°	3.8mm						
	First Molar	-1°	-30°	4°	3.8mm	R L	A08608 A08609	A05658 A05659	A08628 A08629	A05678 A05679	
	First Molar	0°	-14°	14°	3.8mm						
	First Molar	-1°	-30°	4°	3.8mm	.045 occlusal	R L	A08610 A08611	A05660 A05661	A08630 A08631	A05680 A05681
	Second Molar	0°	-14°	14°	3.3mm						
	Second Molar	-1°	-30°	4°	3.3mm	R L	A08612 A08613	A05662 A05663	A08632 A08633	A05682 A05683	

KITS

Single Case, 20 Brackets

- KM09502** Roth Synergy fx[®] .018 hook on cuspid/bicuspid, 5-5
- KM09602** Roth Synergy fx[®] .022 hook on cuspid/bicuspid, 5-5

fixedappliances

VERSA T® – THE MOST VERSATILE TWIN BRACKET APPLIANCE

Versa T®

RMO's bracket which incorporates the friction reducing features of Synergy® but in the Mini-Taurus® twin design. Additionally, includes a vertical slot for auxiliary treatment applications while maintaining a low profile.

The Synergy bracket has become the most popular selling RMO bracket. Many of our customers asked for the features of Synergy in a twin bracket. We listened and developed the Versa T®.

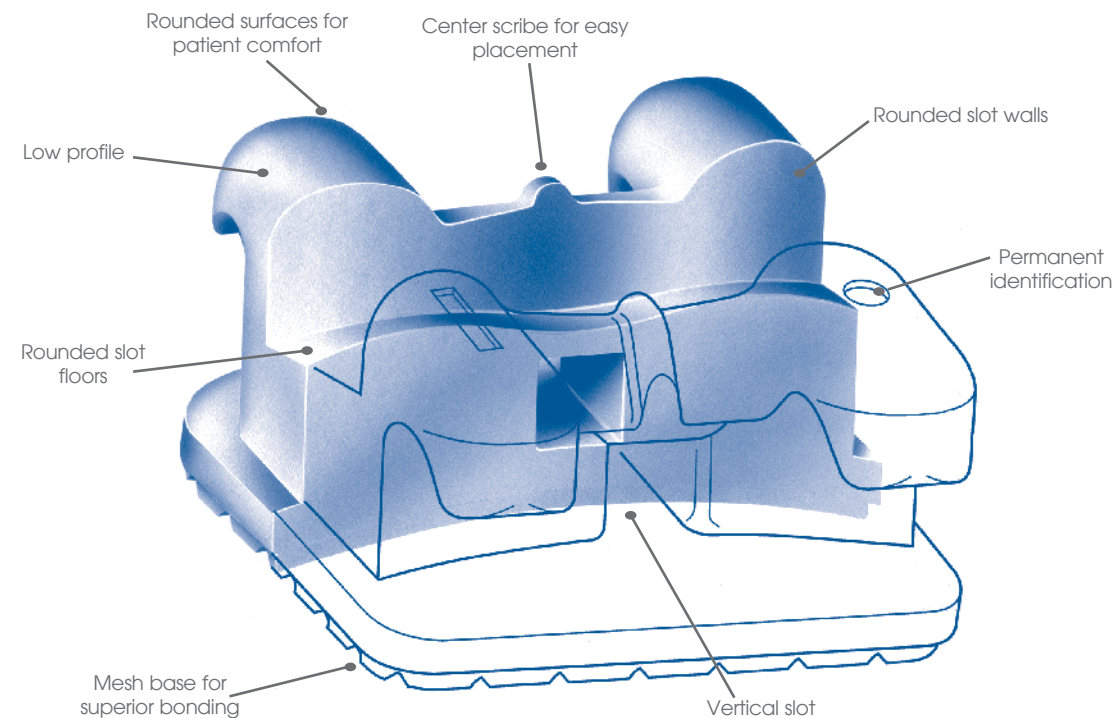
Bracket prescriptions are generic and do not accommodate the individualized treatment requirements of each patient. Versa T, by using the vertical slot, allows the clinician to adjust the tip, torque, and rotation and manage space to fit the individualized treatment plan for each patient.

Versa T has redesigned rounded arch slot walls, rounded arch slot floors and vertical slots. Rounded arch slot walls increase arch wire effectiveness dramatically by eliminating binding and friction on arch wires; now they are free to perform at their optimum.

The gently curving slot walls let the arch wire enter and exit the slot without binding or inducing unnecessary arch wire stress. Because the arch wire is not rigidly captured, as is the case with conventional edgewise brackets, a gentler and more continuous treatment force is generated. Leveling at the beginning of treatment is accomplished faster.

Torque, tip and rotational forces are all delivered more gently due to the fact that the arch wire touches the Versa T bracket at the apex of the rounded walls only. The line contact between bracket and arch wire effectively increases inter-bracket distance for a more active, non-binding force.

Your patients will like the rounded arch slot feature because it makes arch wire insertion easier and reduces discomfort between appointments.







fixedappliances








VERSA T® – RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

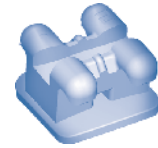
						.018 Arch Slot		.022 Arch Slot		
						On Bases		On Bases		
	Angulation	Torque	Rotation	Width	Right/Left					
Black 	Central					R	M03000	M03001	M03100	M03101
	5°	12°	0°	3.6mm	L					
Black 	Lateral					R	M03002	M03003	M03102	M03103
	9°	8°	0°	2.9mm	L					
Black 	Cuspid					R	M03004	M03005	M03104	M03105
	11°	0°	4° MO	2.9mm	L					
	Without hook					R	M03006	M03007	M03106	M03107
	With hook									
Black 	First/Second Bicuspid					R	M03008	M03009	M03108	M03109
	0°	-7°	2° DO	2.9mm	L					
	Without hook									
With hook					L					

Maxillary tubes

							.018 Arch Slot		.022 Arch Slot		
							On Bases	On Bands	On Bases	On Bands	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left					
	First Molar						R	A08634	A05664	A08636	A05692
	Single convertible with hook										
	First Molar						R	A08600	A05650	A08620	A05670
	Double convertible with hook										
	First Molar						R	A08602	A05652	A08622	A05672
	Double convertible with hook										
	First Molar						R	A08684	A05684	A08686	A05686
	Double convertible with hook										
	First Molar						R	A08688	A05688	A08690	A05690
	Double with hook without cap										
	First Molar						R	A08604	A05654	A08624	A05674
	Triple convertible with hook										
	Second Molar						R	A08606	A05656	A08626	A05676
	Single with hook										

fixedappliances





VERSA T[®] – RMO[®] VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

						.018 Arch Slot		.022 Arch Slot		
						On Bases		On Bases		
	Angulation	Torque	Rotation	Width	Right/Left					
Red 	Central/Lateral									
	2°	0°	0°	2.3mm	R L	M03020 M03021	M03120 M03121			
Red 	Cuspid									
	5°	-11°	2° MO	2.9mm						
	Without hook					R L	M03024 M03025	M03124 M03125		
	With hook					R L	M03026 M03027	M03126 M03127		
Red 	First Bicuspid									
	0°	-17°	4° DO	2.9mm						
	Without hook					R L	M03028 M03029	M03128 M03129		
	With hook					R L	M03030 M03031	M03130 M03131		
Red 	Second Bicuspid									
	0°	-22°	4° DO	2.9mm						
	Without hook					R L	M03032 M03033	M03132 M03133		
	With hook					R L	M03034 M03035	M03134 M03135		

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot		
							On Bases		On Bases		
	Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	Tubes Only/ On Bands	Tubes Only/ On Bands			
	First Molar										
	Single convertible with hook										
						R	A08638	A05666	A08640	A05694	
						L	A08639	A05667	A08641	A05695	
	First Molar										
	Double convertible with hook										
						R	A08608	A05658	A08628	A05678	
						L	A08609	A05659	A08629	A05679	
	First Molar										
	Triple with hook										
						R	A08610	A05660	A08630	A05680	
						L	A08611	A05661	A08631	A05681	
	Second Molar										
	Single with hook										
						R	A08612	A05662	A08632	A05682	
						L	A08613	A05663	A08633	A05683	

KITS

Single Case, 20 Brackets

KM03000	Roth Versa T [®] .018 without hooks, 5-5
KM03100	Roth Versa T [®] .022 without hooks, 5-5
KM03001	Roth Versa T [®] .018 hook on cuspid, 5-5
KM03101	Roth Versa T [®] .022 hook on cuspid, 5-5
KM03002	Roth Versa T [®] .018 hook on cuspid/bicuspid, 5-5
KM03102	Roth Versa T [®] .022 hook on cuspid/bicuspid, 5-5

fixedappliances

MINI-TAURUS[®] DESIGN

Mini-Taurus[®]

RMO[®] Mini-Taurus[®], is a minimum bracket with maximum advantages.

Mini-Taurus offers enhanced bracket quality with smooth, rounded contours and rounded hooks. These features assure patient comfort, hygiene and structural strength.

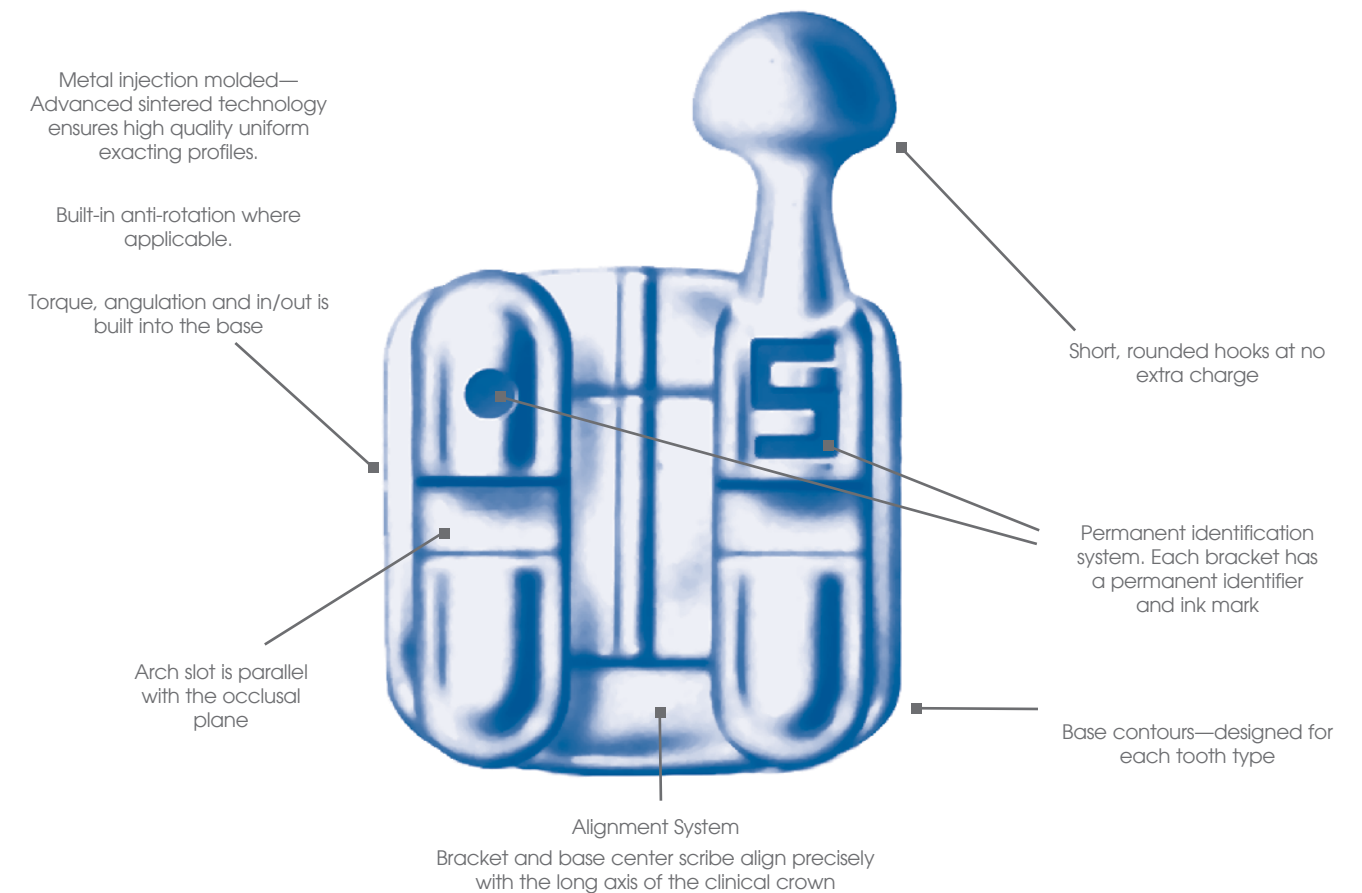
The incisal-gingival bracket dimension has been dramatically reduced. The twin bracket tie wings are of sufficient size to allow easy ligating of single wing or across both wings. Strength in design prevents collapse or breakage from mastication. Bracket design minimizes interference between upper and lower arches. The mesial-distal width permits precise rotation and tipping control.

Foil mesh bases match each bracket and tooth individually. This allows for the smallest base possible while maintaining sufficient area for bonding. A new center scribe feature assists proper alignment during bonding. Torque is provided in the base.

An easy-to-use permanent identification system is molded into each bracket.

Mini-Taurus is available in the most popular techniques:

- RMO[®] Version Roth Preadjusted Straight Wire System
- RMO[®] Version of the Andrews Preadjusted Straight Wire System
- Bench Bioprogressive[®] Preadjusted System
- RMO[®] Version of Alexander Vari-Simplex System
- Standard Edgewise System
- RMO[®] Version of MBT (McLaughlin, Bennett and Trevisi)







fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM










Maxillary brackets

						.018 Arch Slot		.022 Arch Slot		
						On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands	
Black	Angulation	Torque	Rotation	Width	Right/Left					
Central										
Black 	5°	12°	0°	3.6mm	R	M01000		M01100		
					L	M01001		M01101		
Lateral										
Black 	9°	8°	0°	2.9mm						
	Without hook					R	M01002		M01102	
						L	M01003		M01103	
	With hook					R	M01016		M01116	
					L	M01017		M01117		
Cuspid										
Black 	11°	0°	4° MO	2.9mm						
	Without hook					R	M01004		M01104	
						L	M01005		M01105	
	With hook					R	M01006		M01106	
					L	M01007		M01107		
First/Second Bicuspid										
Black 	0°	-7°	2° DO	2.9mm						
	Without hook					R	M01008	A06408	M01108	A06508
						L	M01009	A06409	M01109	A06509
	With hook					R	M01010	A06410	M01110	A06510
						L	M01011	A06411	M01111	A06511
	Gingivally Offset without hook					R	M01050		M01150	
					L	M01051		M01151		
Gingivally Offset with hook					R	M01052		M01152		
					L	M01053		M01153		

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM

Maxillary tubes









							.018 Arch Slot		.022 Arch Slot		
							On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
Black	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left					
First Molar											
	Single convertible with hook										
	0°	-10°	15°	3.8mm		R	A08634	A05664	A08636	A05692	
Torque in base.						L	A08635	A05665	A08637	A05693	
First Molar											
	Double convertible with hook										
	0°	-14°	14°	3.8mm	.045 gingival	R	A08600	A05650	A08620	A05670	
Torque in base.						L	A08601	A05651	A08621	A05671	
First Molar											
	Double convertible with hook										
	0°	-14°	14°	4.2mm	.045 occlusal	R	A08602	A05652	A08622	A05672	
Torque in base.						L	A08603	A05653	A08623	A05673	
First Molar											
	Double convertible with hook										
	0°	-14°	14°	3.8mm		R	A08684	A05684	A08686	A05686	
						L	A08685	A05685	A08687	A05687	
First Molar											
	Double with hook without cap										
	0°	-14°	14°	3.8mm		R	A08688	A05688	A08690	A05690	
Torque in base.						L	A08689	A05689	A08691	A05691	
First Molar											
	Triple convertible with hook										
	0°	-14°	14°	3.8mm	.045 occlusal	R	A08604	A05654	A08624	A05674	
Torque in base.						L	A08605	A05655	A08625	A05675	
Second Molar											
	Single with hook.										
	0°	-14°	14°	3.3mm		R	A08606	A05656	A08626	A05676	
						L	A08607	A05657	A08627	A05677	

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM











Mandibular brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands
Central/Lateral									
Red 	2°	-1°	0°	2.3mm	R	M01020		M01120	
					L	M01021		M01121	
Lateral with hook									
Red 	2°	-1°	0°	2.3mm	R	M01020		M01120	
					L	M01021		M01121	
Cuspid									
	5°	-11°	2° MO	2.9mm					
Red 	Without hook				R	M01024		M01124	
					L	M01025		M01125	
Red 	With hook				R	M01026		M01126	
					L	M01027		M01127	
First Bicuspid									
	0°	-17°	4° DO	2.9mm					
Red 	Without hook				R	M01028	A06428	M01128	A06528
					L	M01029	A06429	M01129	A06529
Red 	With hook				R	M01030	A06430	M01130	A06530
					L	M01031	A06431	M01131	A06531
Gingivally Offset without hook									
					R	M01058		M01158	
					L	M01059		M01159	
Gingivally Offset with hook									
					R	M01060		M01160	
					L	M01061		M01161	
Second Bicuspid									
	0°	-22°	4° DO	2.9mm					
Red 	Without hook				R	M01032	A06432	M01132	A06532
					L	M01033	A06433	M01133	A06533
Red 	With hook				R	M01034	A06434	M01134	A06534
					L	M01035	A06435	M01135	A06535
Gingivally Offset without hook									
					R	M01062		M01162	
					L	M01063		M01163	
Gingivally Offset with hook									
					R	M01064		M01164	
					L	M01065		M01165	

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM

Mandibular tubes

	Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	.018 Arch Slot		.022 Arch Slot		
							On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
First Molar											
	Single convertible with hook										
	-1°	-30°	0°			R	A08638	A05666	A08640	A05694	
	Not preangulated. Torque in base.						L	A08639	A05667	A08641	A05695
	First Molar										
	Double convertible with hook										
	-1°	-30°	4°	3.8mm		R	A08608	A05658	A08628	A05678	
	Not preangulated. Torque in base.						L	A08609	A05659	A08629	A05679
	First Molar										
	Triple with hook										
	-1°	-30°	4°	3.8mm	.045 occlusal	R	A08610	A05660	A08630	A05680	
	Not preangulated Torque in base.						L	A08611	A05661	A08631	A05681
	Second Molar										
	Single with hook										
	-1°	-30°	4°	3.3mm		R	A08612	A05662	A08632	A05682	
	Not preangulated.						L	A08613	A05663	A08633	A05683

KITS

Single Case, 20 Brackets







KM01000	Roth Mini-Taurus® .018 without hook, 5-5
KM01100	Roth Mini-Taurus® .022 without hook, 5-5
KM01001	Roth Mini-Taurus® .018 hook on cuspid, 5-5
KM01101	Roth Mini-Taurus® .022 hook on cuspid, 5-5
KM01002	Roth Mini-Taurus® .018 hook on cuspid/bicuspid, 5-5
KM01102	Roth Mini-Taurus® .022 hook on cuspid/bicuspid, 5-5

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF
BENCH BIOPROGRESSIVE® PREADJUSTED







Maxillary brackets

		.018 Arch Slot							
		Angulation	Torque	Rotation	Width	Right/Left	On Bases	Bracket Only/ On Bands	
Black		Central							
		5°	17°	0°	3.6mm	R	M01200		
						L	M01201		
Black		Lateral							
		9°	10°	0°	2.9mm	R	M01202		
						L	M01203		
Black		Cuspid without vertical slot							
		9°	7°	4° MO	2.9mm				
		Without hook				R	M01204		
						L	M01205		
		With hook				R	M01206		
						L	M01207		
		Cuspid with vertical slot, (.018 x .020)							
		9°	7°	4° MO	2.9mm				
		With hook				R	M01218		
						L	M01219		
Black		First/Second Bicuspid							
		0°	-7°	2° DO	2.9mm				
		Without hook				R	M01208	A06808	
						L	M01209	A06809	
		With hook				R	M01210	A06810	
						L	M01211	A06811	
		Gingivally Offset without hook				R	M01248		
				L	M01249				
		Gingivally Offset with hook				R	M01250		
				L	M01251				

fixedappliances




MINI-TAURUS® DESIGN RMO® VERSION OF
BENCH BIOPROGRESSIVE® PREADJUSTED

Maxillary tubes




		.018 Arch Slot						.022 Arch Slot			
		Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
	First Molar	Single convertible tube/bracket with hook									
		0°	-10°	15°	3.8mm		R	A08294	A01194	A08494	A01294
		Torque in base.					L	A08295	A01195	A08495	A01295
	First Molar	Double convertible with hook									
		0°	-10°	15°	3.8mm		R	A08078	A01178	A08080	A01180
		Auxiliary tube: 0° Torque 0° Offset					L	A08079	A01179	A08081	A01181
		Torque in base.									
	First Molar	Triple convertible with hook									
		0°	-10°	15°	3.8mm	.045 occlusal	R	A08060	A01160	A08070	A01170
		Headgear: 0° Offset					L	A08061	A01161	A08071	A01171
		Aux. Tube: 0°; Torque, 0° Offset									
		Torque in base.									
	Second Molar	Single with hook									
		0°	-10°	12°	3.3mm		R	A08062	A01162	A08072	A01172
						L	A08063	A01163	A08073	A01173	



Mandibular brackets

		.018 Arch Slot							
		Angulation	Torque	Rotation	Width	Right/Left	On Bases	Bracket Only/ On Bands	
Red 	Central/Lateral	2°	-1°	0°	2.3mm	R	M01220		
						L	M01221		
Red 	Cuspid without vertical slot	5°	7°	2° MO	2.9mm				
	Without hook					R	M01224		
						L	M01225		
	With hook					R	M01226		
						L	M01227		
	Cuspid with vertical slot, (.018 x .020)								
With hook	R	M01242							
	L	M01243							
Red 	First Bicuspid	0°	-11°	4° DO	2.9mm				
	Without hook					R	M01228	A06828	
						L	M01229	A06829	
	With hook					R	M01230	A06830	
						L	M01231	A06831	
	Second Bicuspid								
Without hook	R	M01232	A06832						
	L	M01233	A06833						
With hook	R	M01234	A06834						
	L	M01235	A06835						

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot	
		Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar									
	Single convertible with hook	-5°	-27°	6°	3.8mm	R	A08298	A01198		
						L	A08299	A01199		
Single with hook without cap	-5°	-27°	6°	3.8mm	R	A08296	A01196			
Preangulated. Torque in base.					L	A08297	A01197			
	First Molar									
	Double convertible with hook	-5°	-27°	6°	3.8mm	R	A08064	A01164	A08074	A01174
	Auxiliary tube: 0° Torque, 0° Offset, 0° Angulation.					L	A08065	A01165	A08075	A01175
Preangulated. Torque in base.										
	Second Molar									
	Single with hook	-5°	-27°	6°	3.3mm	R	A08066	A01166	A08076	A01176
	Preangulated.					L	A08067	A01167	A08077	A01177

KITS

Single Case, 20 Brackets





KM01200	Bench Mini-Taurus® .018 without hook, 5-5
KM01300	Bench Mini-Taurus® .022 without hook, 5-5
KM01201	Bench Mini-Taurus® .018 hook on cuspid, 5-5
KM01301	Bench Mini-Taurus® .022 hook on cuspid, 5-5
KM01202	Bench Mini-Taurus® .018 hook on cuspid/bicuspid, 5-5
KM01302	Bench Mini-Taurus® .022 hook on cuspid/bicuspid, 5-5

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ANDREWS PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left		On Bases	On Bases
Central							
Black 	5°	7°	0°	3.6mm	R	M01400	M01420
					L		
Lateral							
9°	3°	0°	2.9mm				
Without hook					R	M01402	M01422
					L		
Black 	With hook				R	M01404	M01424
					L		
Cuspid							
11°	-7°	4° MO	2.9mm				
Black 	With hook				R	M01414	M01438
					L		
First/Second Bicuspid							
0°	-7°	2° DO	2.9mm				
Black 	Without hook				R	M01416	M01440
					L		

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ANDREWS PREADJUSTED STRAIGHT WIRE SYSTEM

Maxillary tubes

							.018 Arch Slot	.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar										
Double convertible with hook										
5°	-9°	10°	3.8mm	.045 gingival	R		A08400	A06100	A08440	A06140
					L					
Optional										
0°	-9°	10°	3.8mm	.045 gingival	R		A08402	A06102	A08442	A06142
Headgear tube: 0° offset. Not preangulated.						L	A08403	A06103	A08443	A06143
Torque in base.										
First Molar										
Double convertible with hook										
5°	-9°	10°	3.8mm	.045 occlusal	R		A08404	A06104	A08444	A06144
					L					
Optional										
0°	-9°	10°	3.8mm	.045 occlusal	R		A08406	A06106	A08446	A06146
Headgear tube: 0° offset. Not preangulated.						L	A08407	A06107	A08447	A06147
Torque in base.										
Second Molar										
Single with hook										
5°	-9°	10°	3.3mm		R		A08408	A06108	A08448	A06148
					L					
Optional										
0°	-9°	10°	3.3mm		R		A08410	A06110	A08450	A06150
Not preangulated.						L	A08411	A06111	A08451	A06151

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ANDREWS PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	On Bases	On Bases	On Bases
Central/Lateral									
Red M01470			2°	-1°	0°	2.3mm		R	M01450
					L	M01451			M01471
Cuspid									
Red M01478	5°	-11°	2° MO	2.9mm					
With hook					R	M01458			M01478
					L	M01459			M01479
First Bicuspид									
Red M01480	0°	-17°	4° DO	2.9mm					
Without hook					R	M01460			M01480
					L	M01461			M01481
Second Bicuspид									
Red M01484	0°	-22°	4° DO	2.9mm					
Without hook					R	M01464			M01484
					L	M01465			M01485

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ANDREWS PREADJUSTED STRAIGHT WIRE SYSTEM

Mandibular tubes

	Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	.018 Arch Slot		.022 Arch Slot	
							On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar										
Single convertible with hook										
	2°	-30°	0°	3.8mm		R	A08420	A06120	A08460	A06160
Not preangulated. Torque in base.						L	A08421	A06121	A08461	A06161
First Molar										
Double convertible with hook										
	-1°	-30°	4°	3.8mm		R	A08608	A05658	A08628	A05678
Not preangulated. Torque in base.						L	A08609	A05659	A08629	A05679
First Molar										
Triple with hook										
	-1°	-30°	4°	3.8mm	.045 occlusal	R	A08610	A05660	A08630	A05680
Not preangulated. Torque in base.						L	A08611	A05661	A08631	A05681
Second Molar										
Single with hook										
	2°	-35°	0°	3.3mm		R	A08426	A06126	A08466	A06166
Not preangulated.						L	A08427	A06127	A08467	A06167
Second Molar										
Single with hook										
	-1°	-30°	4°	3.3mm		R	A08612	A05662	A08632	A05682
Not preangulated.						L	A08613	A05663	A08633	A05683

KITS

Single Case, 20 Brackets

- KM01401** Andrews Mini-Taurus® .018 hook on cuspid, 5-5
- KM01421** Andrews Mini-Taurus® .022 hook on cuspid, 5-5

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ALEXANDER VARI-SIMPLEX SYSTEM (WITH VERTICAL SLOT .018 X .020)



Maxillary brackets

						.018 Arch Slot		.022 Arch Slot	
		Angulation	Torque	Width	Right/Left	On Bases		On Bases	
Black		Central		3.6mm	R L	M01600		M01650	
		5°	14°			M01601		M01651	
Black		Lateral		2.9mm	R L	M01602		M01652	
		8°	7°			M01603		M01653	
		Without hook				M01604		M01654	
		With hook			R L	M01605		M01655	
Black		Cuspid (Rotation-Lang)		6.1mm	R L	M01606		M01656	
		10°	-3°			M01607		M01657	
		Without hook				M01608		M01658	
		With hook			R L	M01609		M01659	
Black		First Bicuspid (Rotation-Lewis)		5.1mm	R L	M01610		M01660	
		0°	-7°			M01611		M01661	
Black		Second Bicuspid (Rotation-Lewis)		5.1mm	R L	M01614		M01664	
		0°	-7°			M01615		M01665	

Maxillary tubes

						.018 Arch Slot		.022 Arch Slot				
		Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	On Bands			
	First Molar				.045 occlusal	R L	A08180		A04380			
	Double convertible with hook.		15°				3.8mm		A08190		A04390	
	0°		-10°				A08181		A04381		A08191	
	Torque in base.						A08182		A04382			
	Headgear tube 0° offset.						A08183		A04383			
	Second Molar				3.3mm	R L	A08182		A04382			
	Single with hook		6°				A08183		A08192		A04392	
		0°	-10°				A08193		A04393			

fixedappliances

MINI-TAURUS® DESIGN RMO® VERSION OF ALEXANDER VARI-SIMPLEX SYSTEM (WITH VERTICAL SLOT .018 X .020)



Mandibular brackets

						.018 Arch Slot		.022 Arch Slot	
		Angulation	Torque	Width	Right/Left	On Bases		On Bases	
Red		Central (Rotation-Lewis)		4.5mm	R L	M01620		M01670	
		0°	-5°			M01621		M01671	
Red		Lateral (Lewis)		4.5mm	R L	M01622		M01672	
		0°	-5°			M01623		M01673	
		Without hook				M01624		M01674	
		With hook			R L	M01625		M01675	
Red		Cuspid (Rotation-Lang)		6.1mm	R L	M01626		M01676	
		6°	-7°			M01627		M01677	
		Without hook				M01628		M01678	
		With hook			R L	M01629		M01679	
Red		First Bicuspid (Rotation-Lewis)		5.1mm	R L	M01630		M01680	
		0°	-11°			M01631		M01681	
Red		Second Bicuspid (Rotation-Lewis)		5.1mm	R L	M01634		M01684	
		0°	-17°			M01635		M01685	
		Gingivally Offset without hook			R L	M01644		M01694	
						M01645		M01695	

Mandibular tubes

						.018 Arch Slot		.022 Arch Slot		
		Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar				3.8mm	R L	A08184		A04384	
	Single convertible with hook.		5°				A08185		A04385	
	Not preangulated.						A08186		A04386	
	Second Molar				3.3mm	R L	A08186		A04386	
	Single with hook		6°				A08187		A04387	
	Not preangulated.						A08188		A04388	

KITS

Single Case, 20 Brackets

- KM01600** Alexander Mini-Taurus® .018 without hook, 5-5
- KM01650** Alexander Mini-Taurus® .022 without hook, 5-5
- KM01601** Alexander Mini-Taurus® .018 hook on cuspid, 5-5
- KM01651** Alexander Mini-Taurus® .022 hook on cuspid, 5-5
- KM01603** Alexander Mini-Taurus® .018 hook on lateral and cuspid, 5-5
- KM01653** Alexander Mini-Taurus® .022 hook on lateral and cuspid, 5-5



Maxillary brackets

						.018 Arch Slot		.022 Arch Slot	
						On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands
Black	Angulation	Torque	Rotation	Width	Right/Left				
Central									
	5°	17°	0°	3.6mm	R	M03600		M03700	
					L	M03601		M03701	
Lateral									
	9°	8°	0°	2.9mm	R	M03602		M03702	
	Without hook				L	M03603		M03703	
Cuspid									
	11°	-7°	4° MO	2.9mm	R	M03604		M03704	
	Without hook				L	M03605		M03705	
	With hook				R	M03606		M03706	
					L	M03607		M03707	
	11û	0û	4û MO	2.9mm	R	M03608		M03708	
	With hook (extraction cases)				L	M03609		M03709	
First/Second Bicuspid									
	0°	-7°	2° DO	2.9mm	R	M03610	A03610	M03710	A03710
	Without hook				L	M03611	A03611	M03711	A03711
	With hook				R	M03612	A03612	M03712	A03712
					L	M03613	A03613	M03713	A03713
	Gingivally Offset without hook				R	M03650		M03750	
					L	M03651		M03751	
	Gingivally Offset with hook				R	M03652		M03752	
					L	M03653		M03753	









Maxillary tubes

							.018 Arch Slot		.022 Arch Slot	
							On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
Black	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left				
First Molar										
	Double convertible with hook									
	0°	-14°	14°	3.8mm	.045 gingival	R	A08500	A05400	A08508	A05500
	Torque in base.									
						L	A08501	A05401	A08509	A05501
Second Molar										
	Single with hook									
	0°	-14°	14°	3.3mm		R	A08502	A05402	A08510	A05502
						L	A08503	A05403	A08511	A05503
Optional										
First Molar										
	Double convertible with hook									
	0°	-9°	10°	3.8mm	.045 gingival	R	A08504	A05404	A08512	A05504
	Headgear tube 0° offset. Torque in base.									
						L	A08505	A05405	A08513	A05505
Second Molar										
	Single with hook									
	0û	-9û	10û	3.3mm		R	A08506	A05406	A08514	A05506
						L	A08507	A05407	A08515	A05507





Mandibular brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot		.022 Arch Slot		
						On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands	
Red 	Central/Lateral									
	0°	-6°	0°	2.2mm	R/L	M03620		M03720		
Red 	Cuspid									
	3°	-6°	2° MO	2.9mm						
	Without hook					R	M03622		M03722	
						L	M03623		M03723	
	With hook					R	M03624		M03724	
						L	M03625		M03725	
Red 	First Bicuspid									
	0°	-11°	4° DO	2.9mm						
	Without hook					R	M03626	A03626	M03726	A03726
						L	M03627	A03627	M03727	A03727
	With hook					R	M03628	A03628	M03728	A03728
						L	M03629	A03629	M03729	A03729
	Gingivally Offset without hook					R	M03654		M03754	
						L	M03655		M03755	
	Gingivally Offset with hook					R	M03656		M03756	
						L	M03657		M03757	
Green 	Second Bicuspid									
	0°	-17°	4° DO	2.9mm						
	Without hook					R	M03630	A03630	M03730	A03730
						L	M03631	A03631	M03731	A03731
	With hook					R	M03632	A03632	M03732	A03732
						L	M03633	A03633	M03733	A03733
	Gingivally Offset without hook					R	M03658		M03758	
						L	M03659		M03759	
	Gingivally Offset with hook					R	M03660		M03760	
						L	M03661		M03761	

Mandibular tubes



Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot		
					On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
First Molar									
Single convertible with hook									
0°	-22°	5°	3.8mm	R	A08516	A05408	A08520	A05508	
Torque in base.					L	A08517	A05409	A08521	A05509
Second Molar									
Single with hook									
0°	-10°	6°	3.3mm	R	A08518	A05410	A08522	A05510	
					L	A08519	A05411	A08523	A05511

KITS

Single Case, 20 Brackets

KM03600	MBT Mini-Taurus® .018, without hook, 5-5
KM03700	MBT Mini-Taurus® .022, without hook, 5-5
KM03601	MBT Mini-Taurus® .018, hook on cuspid, 5-5
KM03701	MBT Mini-Taurus® .022, hook on cuspid, 5-5
KM03602	MBT Mini-Taurus® .018, hook on cuspid/bicuspid, 5-5
KM03702	MBT Mini-Taurus® .022, hook on cuspid/bicuspid, 5-5



Maxillary brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
				On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands
Central	0°	3.6mm	R/L	M01900		M01910	
Lateral	0°	2.9mm	R/L	M01901		M01911	
Cuspid/Bicuspid	0°	2.9mm					
Without hook (No ink mark)			R/L	M01902	A01902	M01912	A01912
With hook			R	M01904	A01904	M01914	A01914
			L	M01905	A01905	M01915	A01915

Mandibular brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
				On Bases	Bracket Only/ On Bands	On Bases	Bracket Only/ On Bands
Central/Lateral	0°	2.3mm	R/L	M01906		M01916	
Cuspid/Bicuspid	0°	2.9mm					
Without hook (No ink mark)			R/L	M01907	A01902	M01917	A01912
With hook			R	M01908	A01908	M01918	A01918
			L	M01909	A01909	M01919	A01919

KITS

Single Case, 20 Brackets

KM01900	Standard Edgewise Mini-Taurus® .018 without hook, 5-5
KM01910	Standard Edgewise Mini-Taurus® .022 without hook, 5-5
KM01901	Standard Edgewise Mini-Taurus® .018 hook on cuspid, 5-5
KM01911	Standard Edgewise Mini-Taurus® .022 hook on cuspid, 5-5
KM01902	Standard Edgewise Mini-Taurus® .018 hook on cuspid/bicuspid, 5-5
KM01912	Standard Edgewise Mini-Taurus® .022 hook on cuspid/bicuspid, 5-5

Integra™

RMO® is introducing a new low profile bracket appliance system called Integra™. This small, rhomboid designed bracket is totally integrated. The complete bracket, including the base, is molded as one unit and is manufactured using Metal Injection Molding (MIM). RMO pioneered the MIM manufacturing process in orthodontics and is the leader in the field.

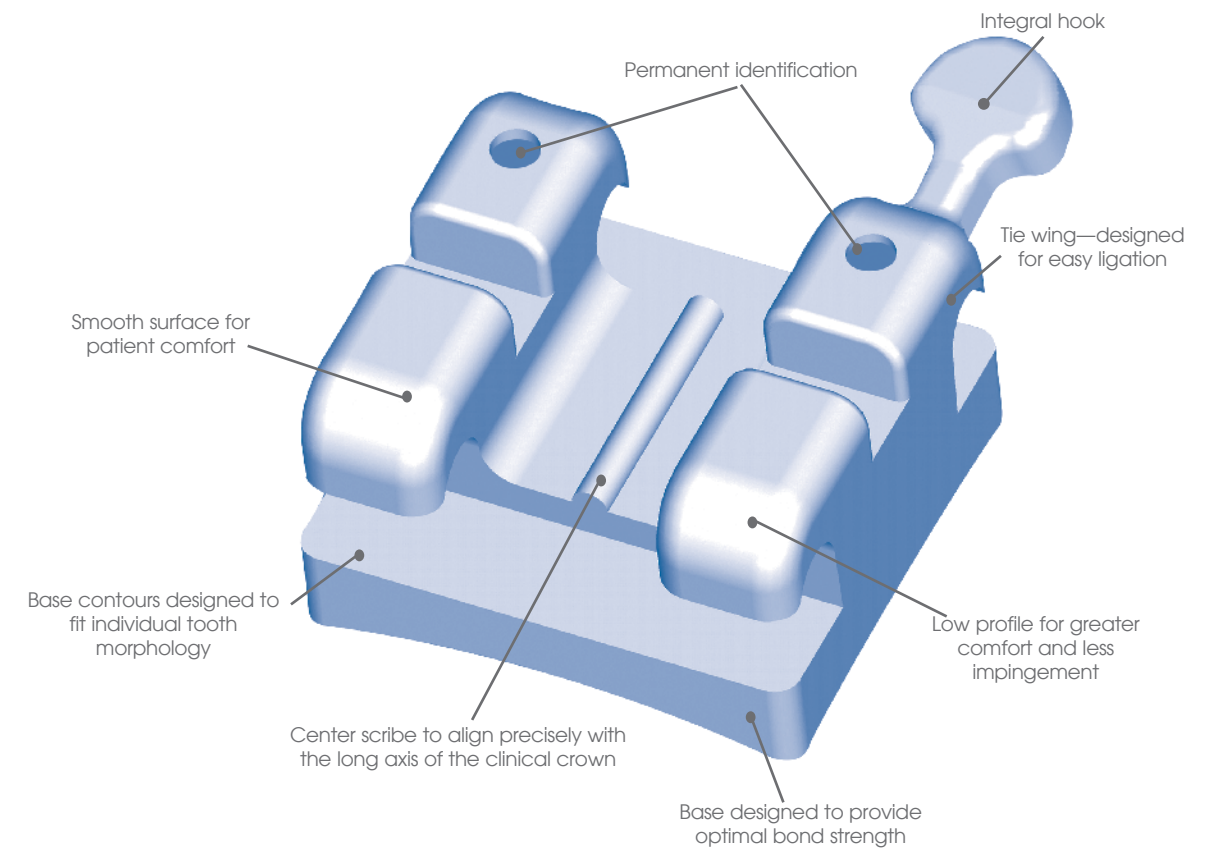
The result of molding the bracket as one unit results in a stronger integral appliance. The built-in wings, hooks and base result in precision orthodontic control. The integral ball hooks on cuspids and bicuspids allow for simultaneous use of auxiliaries.

The increased, molded-pattern bonding surface area assures an excellent bond.

The molded base is designed to match precisely to the curvature of the tooth morphology for maximum contact and strong, consistent bonding. The vertical scribe line aligns precisely with the crown long axis, simplifying accurate bracket placement.

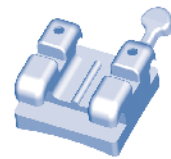
The wing design provides for easy ligation, which is unique in a low profile bracket. Integra has a permanent marking system molded into each bracket for easy identification.

The Integra bracket delivers an unbeatable combination of superior function, patient comfort and superb bonding in an integral appliance system. Quality and consistent finishing are the results.



fixedappliances

INTEGRAT[™] DESIGN RMO[®] VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

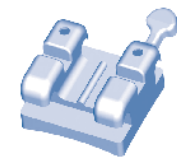
						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Central							
5°	12°	0°	3.6mm	R		M09100	M09200
				L		M09101	M09201
Lateral							
9°	8°	0°	2.9mm	R		M09102	M09202
				L		M09103	M09203
Cuspid							
10°	2°	4° MO	2.9mm				
Without hook							
				R		M09104	M09204
				L		M09105	M09205
With hook							
				R		M09106	M09206
				L		M09107	M09207
First/Second Bicuspid							
0°	-7°	2° DO	2.9mm				
Without hook							
				R		M09108	M09208
				L		M09109	M09209
With hook							
				R		M09110	M09210
				L		M09111	M09211

Maxillary tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
First Molar											
Single convertible with hook											
0°	-10°	15°	3.8mm		R		A08634	A05664	A08636	A05692	
Torque in base.									L	A08635 A05665	A08637 A05693
First Molar											
Double convertible with hook											
0°	-14°	14°	3.8mm	.045 gingival	R		A08600	A05650	A08620	A05670	
Torque in base.									L	A08601 A05651	A08621 A05671
First Molar											
Double convertible with hook											
0°	-14°	14°	4.2mm	.045 occlusal	R		A08602	A05652	A08622	A05672	
Torque in base.									L	A08603 A05653	A08623 A05673
First Molar											
Double convertible with hook											
0°	-14°	14°	3.8mm		R		A08684	A05684	A08686	A05686	
					L		A08685	A05685	A08687	A05687	
Double with hook without cap											
0°	-14°	14°	3.8mm		R		A08688	A05688	A08690	A05690	
Torque in base.									L	A08689 A05689	A08691 A05691
First Molar											
Triple convertible with hook											
0°	-14°	14°	3.8mm	.045 occlusal	R		A08604	A05654	A08624	A05674	
Torque in base.									L	A08605 A05655	A08625 A05675
Second Molar											
Single with hook											
0°	-14°	14°	3.3mm		R		A08606	A05656	A08626	A05676	
					L		A08607	A05657	A08627	A05677	

fixedappliances

INTEGRAT[™] DESIGN RMO[®] VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Central/Lateral							
0°	-1°	0°	2.3mm	R/L		M09120	M09220
Cuspid							
7°	-11°	2° MO	2.9mm				
Without hook							
				R		M09122	M09222
				L		M09123	M09223
With hook							
				R		M09124	M09224
				L		M09125	M09225
First Bicuspid							
0°	-17°	4° DO	2.9mm				
Without hook							
				R		M09126	M09226
				L		M09127	M09227
With hook							
				R		M09128	M09228
				L		M09129	M09229
Second Bicuspid							
0°	-22°	4° DO	2.9mm				
Without hook							
				R		M09130	M09230
				L		M09131	M09231
With hook							
				R		M09132	M09232
				L		M09133	M09233

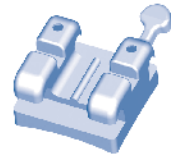
Mandibular tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
First Molar											
Single convertible with hook											
-1°	-30°	0°	3.8mm		R		A08638	A05666	A08640	A05694	
Not preangulated. Torque in base.									L	A08639 A05667	A08641 A05695
First Molar											
Double convertible with hook											
-1°	-30°	4°	3.8mm		R		A08608	A05658	A08628	A05678	
Not preangulated. Torque in base.									L	A08609 A05659	A08629 A05679
First Molar											
Triple with hook											
-1°	-30°	4°	3.8mm	.045 occlusal	R		A08610	A05660	A08630	A05680	
Not preangulated. Torque in base.									L	A08611 A05661	A08631 A05681
Second Molar											
Single with hook											
-1°	-30°	4°	3.3mm		R		A08612	A05662	A08632	A05682	
Not preangulated.									L	A08613 A05663	A08633 A05683





KITS

Single Case, 20 Brackets

- KM09100** Roth Integra[™] .018 without hooks, 5-5
- KM09200** Roth Integra[™] .022 without hooks, 5-5
- KM09101** Roth Integra[™] .018 hook on cuspid, 5-5
- KM09201** Roth Integra[™] .022 hook on cuspid, 5-5
- KM09102** Roth Integra[™] .018 hook on cuspid/bicuspid, 5-5
- KM09202** Roth Integra[™] .022 hook on cuspid/bicuspid, 5-5



Maxillary brackets

						.018 Arch Slot		
	Angulation	Torque	Width	Right/Left				
Black 	Central							
	0°	22°	3.6mm	R L		M09300 M09301		
Black 	Lateral							
	8°	14°	2.9mm	R L		M09302 M09303		
Black 	Cuspid							
	5°	7°	2.9mm					
	Without hook				R L		M09304 M09305	
	With hook				R L		M09306 M09307	
	First/Second Bicuspid							
	0°	0°	2.9mm					
	Without hook				R/L		M09308	
	With hook				R L		M09310 M09311	




Maxillary tubes*

								.018 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases		Tubes Only/ On Bands	
	First Molar								
	Triple convertible with hook								
0°	0°	15°	3.8mm	.045 gingival	R L	A08360 A08361		A04960 A04961	
	Second Molar								
	Single with hook								
0°	0°	12°	3.3mm		R L	A08382 A08383		A04982 A04983	




*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.



Mandibular brackets

						.018 Arch Slot		
	Angulation	Torque	Width	Right/Left				
Red 	Central/Lateral							
	0°	0°	2.3mm	R/L		M09320		
Red 	Cuspid							
	5°	7°	2.9mm					
	Without hook				R L		M09324 M09325	
	With hook				R L		M09326 M09327	
	First/Second Bicuspid							
	0°	0°	2.9mm					
	Without hook				R/L		M09308	
	With hook				R L		M09311 M09310	

Mandibular tubes*

								.018 Arch Slot	
Angulation	Torque	Distal Offset	Width	Right/Left	On Bases		Tubes Only/ On Bands		
	First Molar								
	Double convertible with hook								
-5°	-24°	12°	3.8mm	R	A08364		A04964		
	Preangulated. Torque in base.			L	A08365		A04965		
	First Molar								
	Double convertible with hook								
	-5°	-24°	12°	3.8mm	R	A08386		A04986	
	Auxiliary tube: 0° angulation, 0° torque, 0° DO			L	A08387		A04987		
Preangulated. Torque in base.									
	Second Molar								
	Single with hook								
-5°	-34°	6°	3.3mm	R	A08390		A04990		
	Preangulated.			L	A08391		A04991		

*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

KITS

Single Case, 20 Brackets

KM09300	Original Bioprogressive® Integra™ .018 without hook, 5-5
KM09301	Original Bioprogressive® Integra™ .018 hook on cuspid, 5-5
KM09302	Original Bioprogressive® Integra™ .018 hook on cuspid/bicuspid, 5-5



Maxillary brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central	0°	3.6mm	R/L	M09000	M09010
Lateral	0°	2.9mm	R/L	M09001	M09011
Cuspid/Bicuspid	0°	2.9mm			
Without hook			R/L	M09002	M09012
With hook			R	M09004	M09014
			L	M09005	M09015

Mandibular brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central/Lateral	0°	2.3mm	R/L	M09006	M09016
Cuspid/Bicuspid	0°	2.9mm			
Without hook			R/L	M09002	M09012
With hook			R	M09005	M09015
			L	M09004	M09014

KITS

Single Case, 20 Brackets

KM09000	Standard Edgewise Integra™ .018 without hook, 5-5
KM09010	Standard Edgewise Integra™ .022 without hook, 5-5
KM09001	Standard Edgewise Integra™ .018 hook on cuspid, 5-5
KM09011	Standard Edgewise Integra™ .022 hook on cuspid, 5-5
KM09002	Standard Edgewise Integra™ .018 hook on cuspid/bicuspid, 5-5
KM09012	Standard Edgewise Integra™ .022 hook on cuspid/bicuspid, 5-5



Maxillary brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot
				On Bases
Anterior Twin Medium	0°	3.0mm	R/L	M01700
Cuspid/Bicuspid Twin Medium	0°	3.1mm	R/L	M01704

Mandibular brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot
				On Bases
Anterior Twin Medium	0°	3.0mm	R/L	M01720
Cuspid/Bicuspid Twin Medium	0°	3.1mm	R/L	M01724

Maxillary brackets

Angulation	Torque	Width	Right/Left	.022 Arch Slot
				On Bases
Anterior Single Wide	0°	2.5mm	R/L	M01840
Cuspid/Bicuspid Single Wide	0°	2.5mm	R/L	M01844
Cuspid/Bicuspid Twin Medium	0°	3.1mm	R/L	M01804

Mandibular brackets

Angulation	Torque	Width	Right/Left	.022 Arch Slot
				On Bases
Anterior Single Narrow	0°	1.9mm	R/L	M01830
Cuspid/Bicuspid Single Narrow	0°	1.9mm	R/L	M01834
Cuspid/Bicuspid Twin Medium	0°	3.1mm	R/L	M01824



Maxillary brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot On Bases	.018 Arch Slot On Bands
Central					
0°	22°	Wide	R/L	M06300	
Lateral					
8°	14°	Medium	R	M06302	
			L	M06303	
Cuspid					
5°	7°	Medium	R/L		A06304
			R	M06304	
			L	M06305	
First/Second Bicuspid					
0°	0°	Medium	R/L	M06308	A06308
		Wide	R/L		A06348

Mandibular brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot On Bases	.018 Arch Slot On Bands
Central/Lateral					
0°	0°	Medium	R/L	M06320	
Cuspid/Bicuspid					
5°	7°	Medium	R/L		A06304
			R	M06324	
			L	M06325	
First/Second Bicuspid					
0°	0°	Medium	R/L	M06328	A06308
		Wide	R/L		A06348

Signature III

Self-confidence for you and your patients

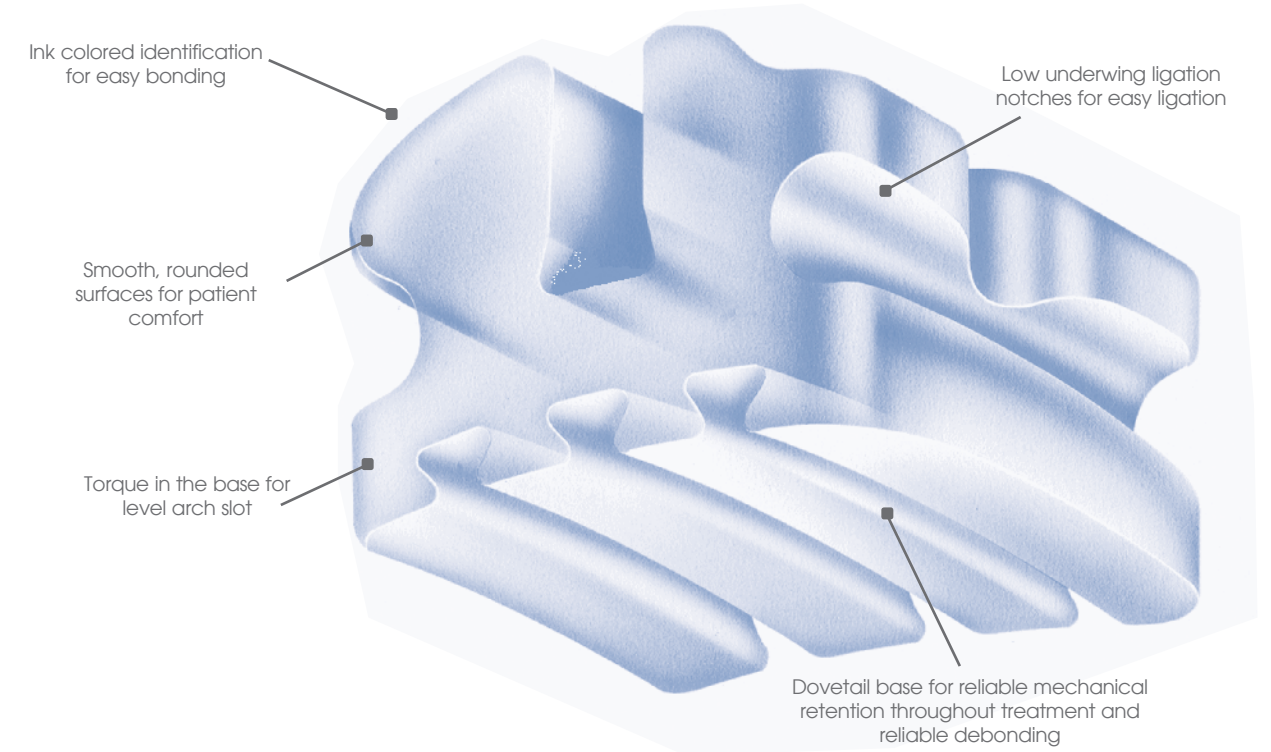
The **Signature III** ceramic brackets perform as good as they look, almost invisible.

Ceramic is strong, translucent, and it doesn't absorb moisture or weaken or discolor.

Ceramic has smooth, rounded edges to prevent arch wire binding and cutting of elastomerics.

Dovetail base





Easy bonding and debonding. Signature III's base has a patented dovetail design that enhances bond strength while allowing it to debond easily. Each base matches various tooth shapes. This gives the adhesive a large surface area—free of air pockets, so a sturdy, mechanical bond can form. This winning combination gives the ability to use all chemical and light cure bonding systems.





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FLI™ SIGNATURE CLEAR CERAMIC
ROTH TECHNIQUE

Maxillary brackets

						.018 Arch Slot	.022 Arch Slot
	Angulation	Torque	Rotation	Width	Right/Left		
 Red	Central					Q07200 Q07201	Q07300 Q07301
	5°	12°	0°	3.94mm	R L		
 Blue	Lateral					Q07202 Q07203	Q07302 Q07303
	9°	8°	0°	3.38mm	R L		
 Green	Cuspid					Q07204 Q07205	Q07304 Q07305
	11°	0°	4° MO	3.3mm	R L		
	Without hook					Q07206 Q07207	Q07306 Q07307
	With hook						
 Black	First/Second Bicuspid					Q07208 Q07210	Q07308 Q07310
	0°	-7°	0°	3.30mm	R/L R/L		

Maxillary tubes

						.018 Arch Slot		.022 Arch Slot		
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar					R L	A08730 A08731	A06730 A06731	A08734 A08735	A06734 A06735
	Single with Hook									
	First Molar					R L	A18750 A18751		A18754 A18755	
	Single with Hook									
	Second Molar					R L	A08732 A08733	A06732 A06733	A08736 A08737	A06736 A06737
	Single with Hook									
	Second Molar					R L	A18752 A18753		A18756 A18757	
	Single with Hook									

KITS

Single Case, 20 Brackets

- KQ07200** Roth FLI® Signature Clear .018, U/L w/out hook, 5-5
- KQ07201** Roth FLI® Signature Clear .018, U/L w/hook cuspid, 5-5
- KQ07202** Roth FLI® Signature Clear .018, U/L w/hook cuspid/bi, 5-5

Single Case, 6 Brackets

- KQ07203** Roth FLI® Signature Clear .018, U w/hook cuspid, 3-3





Single Case, 12 Brackets

- KQ07204** Roth FLI® Signature Clear .018, U/L w/out hook, 3-3
- KQ07205** Roth FLI® Signature Clear .018, U/L w/hook cuspid, 3-3



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FLI™ SIGNATURE CLEAR CERAMIC
ROTH TECHNIQUE

Mandibular brackets

						.018 Arch Slot	.022 Arch Slot
	Angulation	Torque	Rotation	Width	Right/Left		
 Orange	Central/Lateral					Q07220	Q07320
	0°	0°	0°	2.79mm	R/L		
 Purple	Cuspid					Q07224 Q07225	Q07324 Q07325
	5°	-11°	2° MO	3.33mm	R L		
	Without hook					Q07226 Q07227	Q07326 Q07327
	With hook						
 Yellow	First Bicuspid					Q07228 Q07230	Q07328 Q07330
	0°	-17°	0°	3.38mm	R/L R/L		
 Pink	Second Bicuspid					Q07232 Q07234	Q07332 Q07334
	0°	-22°	0°	3.38mm	R/L R/L		

Mandibular tubes

						.018 Arch Slot		.022 Arch Slot		
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
	First Molar					R L	A08740 A08741	A06740 A06741	A08744 A08745	A06744 A06745
	Single with Hook									
	First Molar					R L	A18758 A18759		A18762 A18763	
	Single with Hook									
	Second Molar					R L	A08742 A08743	A06742 A06743	A08746 A08747	A06746 A06747
	Single with Hook									
	Second Molar					R L	A18760 A18761		A18764 A18765	
	Single with Hook									

KITS

Single Case, 20 Brackets

- KQ07300** Roth FLI® Signature Clear .022, U/L w/out hook, 5-5
- KQ07301** Roth FLI® Signature Clear .022, U/L w/hook cuspid, 5-5
- KQ07302** Roth FLI® Signature Clear .022, U/L w/hook cuspid/bi, 5-5

Single Case, 6 Brackets

- KQ07303** Roth FLI® Signature Clear .022, U w/hook cuspid, 3-3






Single Case, 12 Brackets

- KQ07304** Roth FLI® Signature Clear .022, U/L w/out hook, 3-3
- KQ07305** Roth FLI® Signature Clear .022, U/L w/hook cuspid, 3-3

fixedappliances

FLI™ SIGNATURE CLEAR CERAMIC
RICKETTS® BIOPROGRESSIVE® SYSTEM

Maxillary brackets

					.018 Arch Slot	
	Angulation	Torque	Width	Right/Left		
Red 	Central					
	0°	22°	3.94mm	R/L	Q07600	
Blue 	Lateral					
	8°	14°	3.38mm	R	Q07602	
				L	Q07603	
Green 	Cuspid					
	5°	7°	3.33mm			
	Without hook				R	Q07604
				L	Q07605	
Green 	With hook				R	Q07606
					L	Q07607
Brown 	First/Second Bicuspid					
	0°	0°	3.33mm			
	With hook				R/L	Q07610

Maxillary tubes







							.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
First Molar										
Single with Hook										
0°	-10°	0°	4.5mm		R	A08730	A06730	A08734	A06734	
					L	A08731	A06731	A08735	A06735	
First Molar										
Single with Hook										
0°	-10°	10°	4.5mm		R	A18750		A18754		
					L	A18751		A18755		
Second Molar										
Single with Hook										
0°	-10°	0°	3.5mm		R	A08732	A06732	A08736	A06736	
					L	A08733	A06733	A08737	A06737	
Second Molar										
Single with Hook										
0°	-10°	10°	3.5mm		R	A18752		A18756		
					L	A18753		A18757		

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FLI™ SIGNATURE CLEAR CERAMIC
RICKETTS® BIOPROGRESSIVE® SYSTEM



Mandibular brackets

					.018 Arch Slot	
	Angulation	Torque	Width	Right/Left		
Orange 	Central/Lateral					
	0°	0°	2.79mm	R/L	Q07620	
Purple 	Cuspid					
	5°	7°	3.33mm			
	Without hook				R	Q07624
				L	Q07625	
Purple 	With hook				R	Q07626
					L	Q07627
Brown 	First/Second Bicuspid					
	0°	0°	3.33mm			
	With hook				R/L	Q07610

Mandibular tubes



							.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
First Molar										
Single with Hook										
0°	-25°	0°	4.5mm		R	A08740	A06740	A08744	A06744	
					L	A08741	A06741	A08745	A06745	
First Molar										
Single with Hook										
0°	-25°	5°	4.5mm		R	A18758		A18762		
					L	A18759		A18763		
Second Molar										
Single with Hook										
0°	-25°	0°	3.5mm		R	A08742	A06742	A08746	A06746	
					L	A08743	A06743	A08747	A06747	
Second Molar										
Single with Hook										
0°	-25°	5°	3.5mm		R	A18760		A18764		
					L	A18761		A18765		

KITS

Single Case, 20 Brackets, .018" arch slot

Q07602 FLI™ Signature Clear Ricketts® Bioprogressive® Technique U/L, w/hook cuspid/bicuspid, 5-5

Single Case, 6 Brackets, .018" arch slot

Q07603 FLI™ Signature Clear Ricketts® Bioprogressive® Technique U, w/hook cuspid, 3-3

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SIGNATURE III CERAMIC RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central Red	5°	12°	0°	3.8mm	R	Q03010 Q03011	Q03030 Q03031
					L		
Lateral Blue	9°	8°	0°	3.2mm	R	Q03012 Q03013	Q03032 Q03033
					L		
Cuspid Green	11°	0°	4° MO	3.2mm	With hook	Q03014 Q03015 Q03018 Q03017	Q03034 Q03035 Q03038 Q03037
					R		
					L		
					Without hook		
First/Second Bicuspid Black	0°	-7°	0°	3.3mm	With hook	Q03016 Q03019	Q03036 Q03039
					R/L		
					Without hook		
					R/L		

Maxillary tubes

	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot	.022 Arch Slot
							On Bases	On Bases
First Molar Single convertible with hook 	0°	-10°	15°	3.8mm		R	A08634 A08635	A05664 A05665
						L		
First Molar Double convertible with hook 	0°	-14°	14°	3.8mm	.045 gingival	R	A08600 A08601	A05650 A05651
						L		
First Molar Double convertible with hook 	0°	-14°	14°	4.2mm	.045 occlusal	R	A08602 A08603	A05652 A05653
						L		
First Molar Double convertible with hook 	0°	-14°	14°	3.8mm		R	A08684 A08685	A05684 A05685
						L		
First Molar Double with hook without cap 	0°	-14°	14°	3.8mm		R	A08688 A08689	A05688 A05689
						L		
First Molar Triple convertible with hook 	0°	-14°	14°	3.8mm	.045 occlusal	R	A08604 A08605	A05654 A05655
						L		
Second Molar Single with hook 	0°	-14°	14°	3.3mm		R	A08606 A08607	A05656 A05657
						L		

fixedappliances

SIGNATURE III CERAMIC RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

	Angulation	Torque	Rotation	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central/Lateral Orange	0°	0°	0°	2.7mm	R/L	Q03029	Q03049
Cuspid Purple	5°	-11°	2° MO	3.2mm	With hook	Q03021 Q03022 Q03025 Q03026	Q03041 Q03042 Q03045 Q03046
					R		
					L		
					Without hook		
First Bicuspid Yellow	0°	-17°	0°	3.3mm	With hook	Q03023 Q03027	Q03043 Q03047
					R/L		
					R/L		
					Without hook		
Second Bicuspid Pink	0°	-22°	0°	3.3mm	With hook	Q03024 Q03028	Q03044 Q03048
					R/L		
					R/L		
					Without hook		

Mandibular tubes

	Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	.018 Arch Slot	.022 Arch Slot
							On Bases	On Bases
First Molar Single convertible with hook 	-1°	-30°	0°	3.8mm		R	A08638 A08639	A05666 A05667
						L		
First Molar Double convertible with hook 	-1°	-30°	4°	3.8mm		R	A08608 A08609	A05658 A05659
						L		
First Molar Triple with hook 	-1°	-30°	4°	3.8mm	.045 occlusal	R	A08610 A08611	A05660 A05661
						L		
Second Molar Single with hook 	-1°	-30°	4°	3.3mm		R	A08612 A08613	A05662 A05663
						L		

KITS

Single Case, 6 Brackets

KQ03013 Roth SIG III .018 hook on cuspid, 3-3 U
KQ03033 Roth SIG III .022 hook on cuspid, 3-3 U

Single Case, 12 Brackets

KQ03020 Roth SIG III .018 without hook, 3-3 U/L
KQ03040 Roth SIG III .022 without hook, 3-3 U/L
KQ03022 Roth SIG III .018 hook on cuspid, 3-3 U/L
KQ03042 Roth SIG III .022 hook on cuspid, 3-3 U/L

Single Case, 20 Brackets

KQ03024 Roth SIG III .018 without hook, 5-5 U/L
KQ03044 Roth SIG III .022 without hook, 5-5 U/L
KQ03025 Roth SIG III .018 hook on cuspid, 5-5 U/L
KQ03045 Roth SIG III .022 hook on cuspid, 5-5 U/L
KQ03026 Roth SIG III .018 hook on cuspid/bicuspid, 5-5 U/L
KQ03046 Roth SIG III .022 hook on cuspid/bicuspid, 5-5 U/L

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SIGNATURE III CERAMIC
RICKETTS® ORIGINAL BIOPROGRESSIVE® SYSTEM



Maxillary brackets

		.018 Arch Slot				
	Angulation	Torque	Width	Right/Left		
Red	Central 0°	22°	3.9mm	R/L		Q08000
Blue	Lateral 9°	14°	3.4mm	R	L	Q08002 Q08003
Green	Cuspid 5° Without hook	7°	3.3mm	R	L	Q08004 Q08005
	With hook			R	L	Q08006 Q08007
Brown	First/Second Bicuspid 0° With hook	0°	3.3mm	R/L		Q08020

Maxillary tubes*

		.018 Arch Slot						
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands
	First Molar Triple convertible with hook	0°	15°	3.8mm	.045 gingival	R	A08360	A04960
						L	A08361	A04961
	Second Molar Single with hook	0°	12°	3.3mm		R	A08382	A04982
						L	A08383	A04983

*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

fixedappliances

SIGNATURE III CERAMIC
RICKETTS® ORIGINAL BIOPROGRESSIVE® SYSTEM



Mandibular brackets

		.018 Arch Slot				
	Angulation	Torque	Width	Right/Left		
Orange	Central/Lateral 0°	0°	2.6mm	R/L		Q08022
Purple	Cuspid 5° Without hook	7°	3.4mm	R	L	Q08012 Q08013
	With hook			R	L	Q08014 Q08015
Brown	First/Second Bicuspid 0° With hook	0°	3.3mm	R/L		Q08020

Mandibular tubes*

		.018 Arch Slot						
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	
	First Molar Double convertible with hook	-5°	12°	3.8mm	R	A08364	A04964	
	Preangulated. Torque in base.	-24°			L	A08365	A04965	
	First Molar Double convertible with hook	-5°	12°	3.8mm	R	A08386	A04986	
	Auxiliary tube: 0° angulation, 0° torque, 0° DO	-24°			L	A08387	A04987	
	Preangulated. Torque in base.							
	Second Molar Single with hook	-5°	6°	3.3mm	R	A08390	A04990	
	Preangulated.	-34°			L	A08391	A04991	

*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

KITS

Single Case, 12 Brackets

KQ08002 Ricketts® Original Bioprogressive® Signature III .018, hook on cuspid, 3-3 U/L

Single Case, 20 Brackets

KQ08003 Ricketts® Original Bioprogressive® Signature III .018, hook on cuspid/bicuspid, 5-5 U/L

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SIGNATURE III CERAMIC
RMO® BIOPROGRESSIVE® SYSTEM



Maxillary brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Red 	Central 0°	22°	3.9mm	R/L			Q08100
Blue 	Lateral 9°	14°	3.4mm	R L			Q08102 Q08103
Green 	Cuspid 5° Without hook	7°	3.3mm	R L			Q08104 Q08105
	With hook			R L			Q08106 Q08107
Black 	First/Second Bicuspid 0° With hook	-7°	3.3mm	R/L			Q08108

Maxillary tubes



									.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases		Tubes Only/ On Bands	
	First Molar Single convertible tube/bracket with hook 0° Torque in base.	-10°	15°	3.8mm		R L	A08294 A08295		A01194 A01195	
	First Molar Double convertible with hook 0° Auxiliary Tube: 0° torque, 0° DO Torque in base.	-10°	15°	3.8mm		R L	A08078 A08079		A01178 A01179	
	First Molar Triple convertible with hook 0° Auxiliary Tube: 0° torque, 0° DO Headgear Tube: 0° distal offset. Torque in base.	-10°	15°	3.8mm	.045 occlusal	R L	A08060 A08061		A01160 A01161	
	Second Molar Single with hook 0°	-10°	12°	3.3mm		R L	A08062 A08063		A01162 A01163	

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SIGNATURE III CERAMIC
RMO® BIOPROGRESSIVE® SYSTEM



Mandibular brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Orange 	Central/Lateral 0°	0°	2.6mm	R/L			Q08120
Purple 	Cuspid 5° Without hook	7°	3.4mm	R L			Q08112 Q08113
	With hook			R L			Q08114 Q08115
Yellow 	First Bicuspid 0° With hook	-17°	3.4mm	R/L			Q08116
Pink 	Second Bicuspid 0° With hook	-22°	3.4mm	R/L			Q08118

Mandibular tubes*

										.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases		Tubes Only/ On Bands			
	First Molar Single convertible tube/bracket with hook -5° Torque in base.	-27°	6°	3.8mm	R L	A08298 A08299		A01198 A01199			
	Single with hook without cap -5° Preangulated. Torque in base.	-27°	6°	3.8mm	R L	A08296 A08297		A01196 A01197			
	First Molar Double convertible with hook -5° Auxiliary Tube: 0° angulation, 0° torque, 0° offset Preangulated. Torque in base.	-27°	6°	3.8mm	R L	A08064 A08065		A01164 A01165			
	Second Molar Single with hook -5° Preangulated.	-27°	6°	3.3mm	R L	A08066 A08067		A01166 A01167			

*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

KITS

Single Case, 12 Brackets

KQ08102 RMO® Bioprogressive® Signature III .018, hook on cuspid, 3-3 U/L

Single Case, 20 Brackets





KQ08103 RMO® Bioprogressive® Signature III .018, hook on cuspid/bicuspid, 5-5 U/L

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SIGNATURE III CERAMIC
RMO® VERSION OF MBT



Maxillary brackets

					.018 Arch Slot		.022 Arch Slot	
	Angulation	Torque	Width	Right/Left				
Red 	Central				R	Q03200	Q03300	
	4°	17°	3.9mm	L				
Blue 	Lateral				R	Q03202	Q03302	
	10°	8°	3.4mm	L				
Green 	Cuspid				R	Q03216	Q03316	
	8°	-7°	3.3mm	L				
	With hook				R	Q03206	Q03306	
	8°	0°	3.3mm	L				
With hook (extraction cases)				R	Q03206	Q03306		
				L	Q03207	Q03307		
Black 	First/Second Bicuspid				R/L	Q03210	Q03310	
	0°	-7°	3.3mm					
	With hook							

Maxillary tubes





							.018 Arch Slot		.022 Arch Slot		
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
	First Molar										
	Double convertible with hook						R	A08500	A05400	A08508	A05500
	0°	-14°	14°	3.8mm	.045 gingival	L	A08501	A05401	A08509	A05501	
	Torque in base.										
	Second Molar										
	Single with hook						R	A08502	A05402	A08510	A05502
	0°	-14°	14°	3.3mm		L	A08503	A05403	A08511	A05503	
	Optional										
	First Molar										
	Torque in base.						R	A08504	A05404	A08512	A05504
	0°	-9°	10°	3.3mm	.045 gingival	L	A08505	A05405	A08513	A05505	
	Second Molar										
	Torque in base.						R	A08506	A05406	A08514	A05506
	0°	-9°	10°	3.3mm		L	A08507	A05407	A08515	A05507	

fixedappliances



SIGNATURE III CERAMIC
RMO® VERSION OF MBT



Mandibular brackets

					.018 Arch Slot		.022 Arch Slot	
	Angulation	Torque	Width	Right/Left				
Orange 	Central/Lateral				R/L	Q03220	Q03320	
	0°	-6°	2.8mm					
Purple 	Cuspid				R	Q03236	Q03336	
	3°	-6°	3.4mm	L				
	With hook				R	Q03226	Q03326	
	3°	0°	3.4mm	L				
With hook (extraction cases)				R	Q03226	Q03326		
				L	Q03227	Q03327		
Yellow 	First Bicuspid				R	Q03230	Q03330	
	2°	-12°	3.4mm	L				
	With hook							
Pink 	Second Bicuspid				R	Q03234	Q03334	
	2°	-17°	3.4mm	L				
	With hook							

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot		
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands		
	First Molar										
	Single convertible with hook						R	A08516	A05408	A08520	A05508
	0°	-22°	5°	3.8mm		L	A08517	A05409	A08521	A05509	
	Torque in base.										
	Second Molar										
	Single with hook						R	A08518	A05410	A08522	A05510
	0°	-10°	6°	3.3mm		L	A08519	A05411	A08523	A05511	

KITS

Single Case, 20 Brackets

- KQ03202** MBT Signature III .018, hook on cuspid/bicuspid, 5-5 Non-extraction -6°T cuspid
- KQ03302** MBT Signature III .022, hook on cuspid/bicuspid, 5-5 Non-extraction -6°T cuspid
- KQ03205** MBT Signature III .018, hook on cuspid/bicuspid, 5-5 Extraction 0°T cuspid
- KQ03305** MBT Signature III .022, hook on cuspid/bicuspid, 5-5 Extraction 0°T cuspid



Maxillary brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central					
0°	0°	3.9mm	R/L	Q09000	Q09020
Lateral					
0°	0°	3.3mm	R/L	Q09002	Q09022
Cuspid					
0°	0°	3.3mm			
Without hook			R/L	Q09004	Q09024
Bicuspid					
0°	0°	3.3mm			
Without hook			R/L	Q09006	Q09026

Mandibular brackets

Angulation	Torque	Width	Right/Left	.018 Arch Slot	.022 Arch Slot
Central/Lateral					
0°	0°	2.8mm	R/L	Q09008	Q09028
Cuspid					
0°	0°	3.3mm			
Without hook			R/L	Q09004	Q09024
Bicuspid					
0û	0û	3.3mm			
Without hook			R/L	Q09006	Q09026

KITS

Single Case, 6 Brackets

- KQ09041 Standard Edgewise Signature III .018, 3-3 U
- KQ09061 Standard Edgewise Signature III .022, 3-3 U

Single Case, 12 Brackets

- KQ09000 Standard Edgewise Signature III .018, 3-3 U/L
- KQ09060 Standard Edgewise Signature III .022, 3-3 U/L

Single Case, 20 Brackets

- KQ09042 Standard Edgewise Signature III .018, 5-5 U/L
- KQ09062 Standard Edgewise Signature III .022, 5-5 U/L

LUXI® II

Ceramic brackets with the functionality of metal brackets

These brackets give your patients the look they want and give you the functionality you need. LUXI® II gives you reduced friction for enhanced sliding mechanics and reduced treatment time, easy debonding, the aesthetics of ceramics, and the strength of metal all in one bracket.

Reduced friction

LUXI II is a reduced-friction ceramic bracket containing a biocompatible gold arch slot sliding guide. This patented feature enhances sliding mechanics by reducing friction as compared to conventional ceramics.

Mechanical features

- The LUXI II ceramic bracket is produced from extruded alumina. It is not a machined bracket. It will not fail prematurely from cracking due to internal stress.
- LUXI II contains an 18-karat (75%) gold insert, which is similar in composition to high-quality gold crown and bridge alloys.
- Studies show that a greater torque can

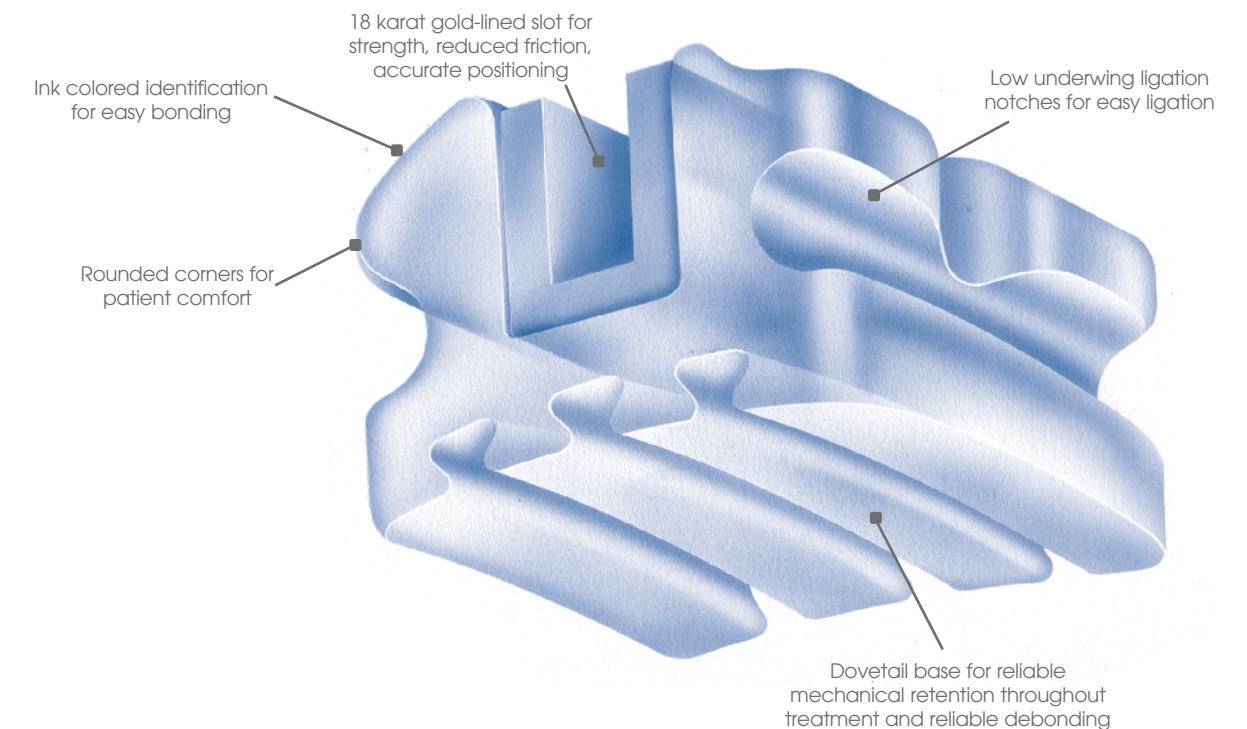
be applied to a bracket with a gold insert before the bracket breaks, or a full-size wire engaged in the bracket twists, than for a bracket with a stainless steel insert or an all-ceramic bracket.

Bonding/Debonding

Easy bonding and debonding. LUXI II's base has a patented dovetail design that enhances bond strength while allowing it to debond easily. Each base matches various tooth shapes. This gives the adhesive a large surface area—free of air pockets, so a sturdy, mechanical bond can form. This winning combination gives the ability to use all chemical and light cure bonding systems.

Patient acceptance

The unmatched combination of aesthetics with gold strength. The translucence of ceramic mirrors the natural look of enamel. This will be your patient's first choice.



fixedappliances

LUXI® II – GOLD-REINFORCED CERAMIC RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Maxillary brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Red	Central					Q03060 Q03061	Q03080 Q03081
	5°	12°	0°	3.8mm	R L		
Blue	Lateral					Q03062 Q03063	Q03082 Q03083
	9°	8°	0°	3.2mm	R L		
Green	Cuspid					Q03064 Q03065 Q03068 Q03067	Q03084 Q03085 Q03088 Q03087
	11°	0°	4° MO	3.2mm			
	With hook				R L		
	Without hook				R L		
Black	First/Second Bicuspid					Q03066 Q03069	Q03086 Q03089
	0°	-7°	0°	3.3mm	R/L R/L		

Maxillary tubes

							.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
	First Molar					A08634 A08635	A05664 A05665	A08636 A08637	A05692 A05693	
	Single convertible with hook				R L					
	First Molar					A08600 A08601	A05650 A05651	A08620 A08621	A05670 A05671	
	Double convertible with hook			.045 gingival	R L					
	First Molar					A08602 A08603	A05652 A05653	A08622 A08623	A05672 A05673	
	Double convertible with hook			.045 occlusal	R L					
	First Molar					A08684 A08685	A05684 A05685	A08686 A08687	A05686 A05687	
	Double convertible with hook				R L					
	First Molar					A08688 A08689	A05688 A05689	A08690 A08691	A05690 A05691	
	Double with hook without convertible cap				R L					
	First Molar					A08604 A08605	A05654 A05655	A08624 A08625	A05674 A05675	
	Triple convertible with hook			.045 occlusal	R L					
	Second Molar					A08606 A08607	A05656 A05657	A08626 A08627	A05676 A05677	
	Single with hook				R L					

fixedappliances

LUXI® II – GOLD-REINFORCED CERAMIC RMO® VERSION OF ROTH PREADJUSTED STRAIGHT WIRE SYSTEM



Mandibular brackets

						.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Rotation	Width	Right/Left			
Orange	Central/Lateral					Q03079	Q03099
	0°	0°	0°	2.7mm	R/L		
Purple	Cuspid					Q03071 Q03072 Q03075 Q03076	Q03091 Q03092 Q03095 Q03096
	5°	-11°	2° MO	3.2mm			
	With hook				R L		
	Without hook				R L		
Yellow	First Bicuspid					Q03073 Q03077	Q03093 Q03097
	0°	-17°	0°	3.3mm	R/L R/L		
Pink	Second Bicuspid					Q03074 Q03078	Q03094 Q03098
	0°	-22°	0°	3.3mm	R/L R/L		

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
	First Molar					A08638 A08639	A05666 A05667	A08640 A08641	A05694 A05695	
	Convertible with hook				R L					
	First Molar					A08608 A08609	A05658 A05659	A08628 A08629	A05678 A05679	
	Double convertible with hook				R L					
	First Molar					A08610 A08611	A05660 A05661	A08630 A08631	A05680 A05681	
	Triple with hook			.045 occlusal	R L					
	Second Molar					A08612 A08613	A05662 A05663	A08632 A08633	A05682 A05683	
	Single with hook				R L					

KITS

Single Case, 6 Brackets

- KQ03063 Roth LUXI® II .018 hook on cuspid, 3-3 upper only
- KQ03083 Roth LUXI® II .022 hook on cuspid, 3-3 upper only

Single Case, 12 Brackets

- KQ03070 Roth LUXI® II .018 without hook, 3-3 U/L
- KQ03090 Roth LUXI® II .022 without hook, 3-3 U/L
- KQ03072 Roth LUXI® II .018 hook on cuspid, 3-3 U/L
- KQ03092 Roth LUXI® II .022 hook on cuspid, 3-3 U/L

Single Case, 20 Brackets





- KQ03074 Roth LUXI® II .018 without hook, 5-5 U/L
- KQ03094 Roth LUXI® II .022 without hook, 5-5 U/L
- KQ03075 Roth LUXI® II .018 hook on cuspid, 5-5 U/L
- KQ03095 Roth LUXI® II .022 hook on cuspid, 5-5 U/L
- KQ03076 Roth LUXI® II .018 hook on cuspid/bicuspid, 5-5 U/L
- KQ03096 Roth LUXI® II .022 hook on cuspid/bicuspid, 5-5 U/L

fixedappliances

LUXI® II – GOLD REINFORCED CERAMIC
RICKETTS® ORIGINAL BIOPROGRESSIVE® SYSTEM



Maxillary brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Red 	Central 0°	22°	3.9mm	R/L		Q08200	
Blue 	Lateral 9°	14°	3.4mm	R L		Q08202 Q08203	
Green 	Cuspid 5° Without hook	7°	3.3mm	R L		Q08204 Q08205	
	With hook			R L		Q08206 Q08207	
Brown 	First/Second Bicuspid 0° With hook	0°	3.3mm	R/L		Q08220	

Maxillary tubes*

									.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases		Tubes Only/ On Bands	
	First Molar Triple convertible with hook									
	0°	0°	15°	3.8mm	.045 gingival	R L	A08360 A08361		A04960 A04961	
	Second Molar Single with hook									
	0°	0°	12°	3.3mm		R L	A08382 A08383		A04982 A04983	




*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

fixedappliances



LUXI® II – GOLD REINFORCED CERAMIC
RICKETTS® ORIGINAL BIOPROGRESSIVE® SYSTEM



Mandibular brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Orange 	Central/Lateral 0°	0°	2.6mm	R/L		Q08222	
Purple 	Cuspid 5° Without hook	7°	3.4mm	R L		Q08212 Q08213	
	With hook			R L		Q08214 Q08215	
Brown 	First/Second Bicuspid 0° With hook	0°	3.3mm	R/L		Q08220	

Mandibular tubes*

										.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases		Tubes Only/ On Bands			
	First Molar Double convertible with hook										
	-5°	-24°	12°	3.8mm	R L	A08364 A08365		A04964 A04965			
	Preangulated. Torque in base.										
	First Molar Double convertible with hook										
	-5°	-24°	12°	3.8mm	R L	A08386 A08387		A04986 A04987			
	Auxiliary tube: 0° angulation, 0° torque, 0° DO Preangulated. Torque in base.										
	Second Molar Single with hook										
	-5°	-34°	6°	3.3mm	R L	A08390 A08391		A04990 A04991			
	Preangulated.										

*For more optional Bioprogressive® tubes, please refer to the Bioprogressive tubes catalog section.

KITS

Single Case, 12 Brackets

KQ08202 Ricketts® Original Bioprogressive® LUXI® II .018, hook on cuspid, 3-3 U/L

Single Case, 20 Brackets

KQ08203 Ricketts® Original Bioprogressive® LUXI® II .018, hook on cuspid/bicuspid, 5-5 U/L

fixedappliances





LUXI® II – GOLD REINFORCED CERAMIC
RMO® BIOPROGRESSIVE® SYSTEM



Maxillary brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Red 	Central 0°	22°	3.9mm	R/L		Q08300	
Blue 	Lateral 9°	14°	3.4mm	R L		Q08302 Q08303	
Green 	Cuspid 5° Without hook	7°	3.3mm	R L		Q08304 Q08305	
	With hook			R L		Q08306 Q08307	
Black 	First/Second Bicuspid 0° With hook	-7°	3.3mm	R/L		Q08308	

Maxillary tubes*

									.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases		Tubes Only/ On Bands	
	First Molar Single convertible tube/bracket with hook 0° Torque in base.	-10°	15°	3.8mm		R L	A08294 A08295		A01194 A01195	
	First Molar Double convertible with hook 0° Auxiliary Tube: 0° torque, 0° DO Torque in base.	-10°	15°	3.8mm		R L	A08078 A08079		A01178 A01179	
	First Molar Triple convertible with hook 0° Auxiliary Tube: 0° torque, 0° DO Headgear Tube: 0° distal offset. Torque in base.	-10°	15°	3.8mm	.045 occlusal	R L	A08060 A08061		A01160 A01161	
	Second Molar Single with hook 0°	-10°	12°	3.3mm		R L	A08062 A08063		A01162 A01163	

*For more optional Biopgressive® tubes, please refer to the Biopgressive tubes catalog section.

fixedappliances

LUXI® II – GOLD REINFORCED CERAMIC
RMO® BIOPROGRESSIVE® SYSTEM



Mandibular brackets

						.018 Arch Slot	
	Angulation	Torque	Width	Right/Left			
Orange 	Central/Lateral 0°	0°	2.6mm	R/L		Q08320	
Purple 	Cuspid 5° Without hook	7°	3.4mm	R L		Q08312 Q08313	
	With hook			R L		Q08314 Q08315	
Yellow 	First Bicuspid 0° With hook	-17°	3.4mm	R/L		Q08316	
Pink 	Second Bicuspid 0° With hook	-22°	3.4mm	R/L		Q08318	

Mandibular tubes*

										.018 Arch Slot	
	Angulation	Torque	Distal Offset	Width	Right/Left	On Bases		Tubes Only/ On Bands			
	First Molar Single convertible tube/bracket with hook -5° Torque in base.	-27°	6°	3.8mm	R L	A08298 A08299		A01198 A01199			
	Single with hook without cap -5° Preangulated. Torque in base.	-27°	6°	3.8mm	R L	A08296 A08297		A01196 A01197			
	First Molar Double convertible with hook -5° Auxiliary Tube: 0° angulation, 0° torque, 0° offset Preangulated. Torque in base.	-27°	6°	3.8mm	R L	A08064 A08065		A01164 A01165			
	Second Molar Single with hook -5° Preangulated.	-27°	6°	3.3mm	R L	A08066 A08067		A01166 A01167			

*For more optional Biopgressive® tubes, please refer to the Biopgressive tubes catalog section.

KITS

Single Case, 12 Brackets

KQ08302 RMO® Biopgressive® LUXI® II .018, hook on cuspid, 3-3 U/L

Single Case, 20 Brackets

KQ08303 RMO® Biopgressive® LUXI® II .018, hook on cuspid/bicuspid, 5-5 U/L

fixedappliances

LUXI® II – GOLD REINFORCED CERAMIC
RMO® VERSION OF MBT



Maxillary brackets

					.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Width	Right/Left						
Red	Central 4°	17°	3.9mm	R	Q03400	Q03401	Q03500	Q03501	
				L					
Blue	Lateral 10°	8°	3.4mm	R	Q03402	Q03403	Q03502	Q03503	
				L					
Green	Cuspid 8°	-7°	3.3mm	R	Q03416	Q03417	Q03516	Q03517	
				L					
	With hook	8°	0°	3.3mm	R	Q03406	Q03407	Q03506	Q03507
					L				
Black	First/Second Bicuspid 0°	-7°	3.3mm	R/L		Q03410	Q03510		
				With hook					

Maxillary tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands	
	First Molar	Double convertible with hook				R	A08500	A05400	A08508	A05500	
		0°	-14°	14°	3.8mm						.045 gingival
		Torque in base.									L
	Second Molar	Single with hook				R	A08502	A05402	A08510	A05502	
		0°	-14°	14°	3.3mm						
											L
	Optional First Molar					R	A08504	A05404	A08512	A05504	
		0°	-9°	10°	3.3mm						.045 gingival
		Torque in base.									L
	Optional Second Molar					R	A08506	A05406	A08514	A05506	
		0°	-9°	10°	3.3mm						
											L

fixedappliances

LUXI® II – GOLD REINFORCED CERAMIC
RMO® VERSION OF MBT



Mandibular brackets

					.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Width	Right/Left					
Orange	Central/Lateral 0°	-6°	2.8mm	R/L		Q03420	Q03520	
Purple	Cuspid 3°	-6°	3.4mm	R		Q03436	Q03536	
				L				
	With hook	3°	0°	3.4mm	R		Q03426	Q03526
					L			
With hook (extraction cases)				R		Q03427	Q03527	
Yellow	First Bicuspid 2°	-12°	3.4mm	R		Q03430	Q03530	
				L				
Pink	Second Bicuspid 2°	-17°	3.4mm	R		Q03434	Q03534	
				L				

Mandibular tubes

							.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Right/Left		On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands		
	First Molar	Single convertible with hook				R	A08516	A05408	A08520	A05508	
		0°	-22°	5°	3.8mm						
		Torque in base.									L
	Second Molar	Single with hook				R	A08518	A05410	A08522	A05510	
		0°	-10°	6°	3.3mm						
											L

KITS

Single Case, 20 Brackets

- KQ03402** MBT LUXI® II .018, hook on cuspid/bicuspid, 5-5 Non-extraction -6°T cuspid
- KQ03502** MBT LUXI® II .022, hook on cuspid/bicuspid, 5-5 Non-extraction -6°T cuspid
- KQ03405** MBT LUXI® II .018, hook on cuspid/bicuspid, 5-5 Extraction 0°T cuspid
- KQ03505** MBT LUXI® II .022, hook on cuspid/bicuspid, 5-5 Extraction 0°T cuspid

Synergy LUX®

The new gold standard in ceramic brackets

What do you get when you combine the revolutionary functionality of the Synergy® bracket and aesthetic quality of the LUXI® II bracket? You get a bracket that functions as beautifully as it looks.

Low-friction/Low-force

Synergy LUX® is a reduced-friction ceramic bracket with a patented 18-karat gold arch slot. This feature effectively reduces friction as compared to conventional stainless steel and ceramic brackets.

A ceramic offering unprecedented quality

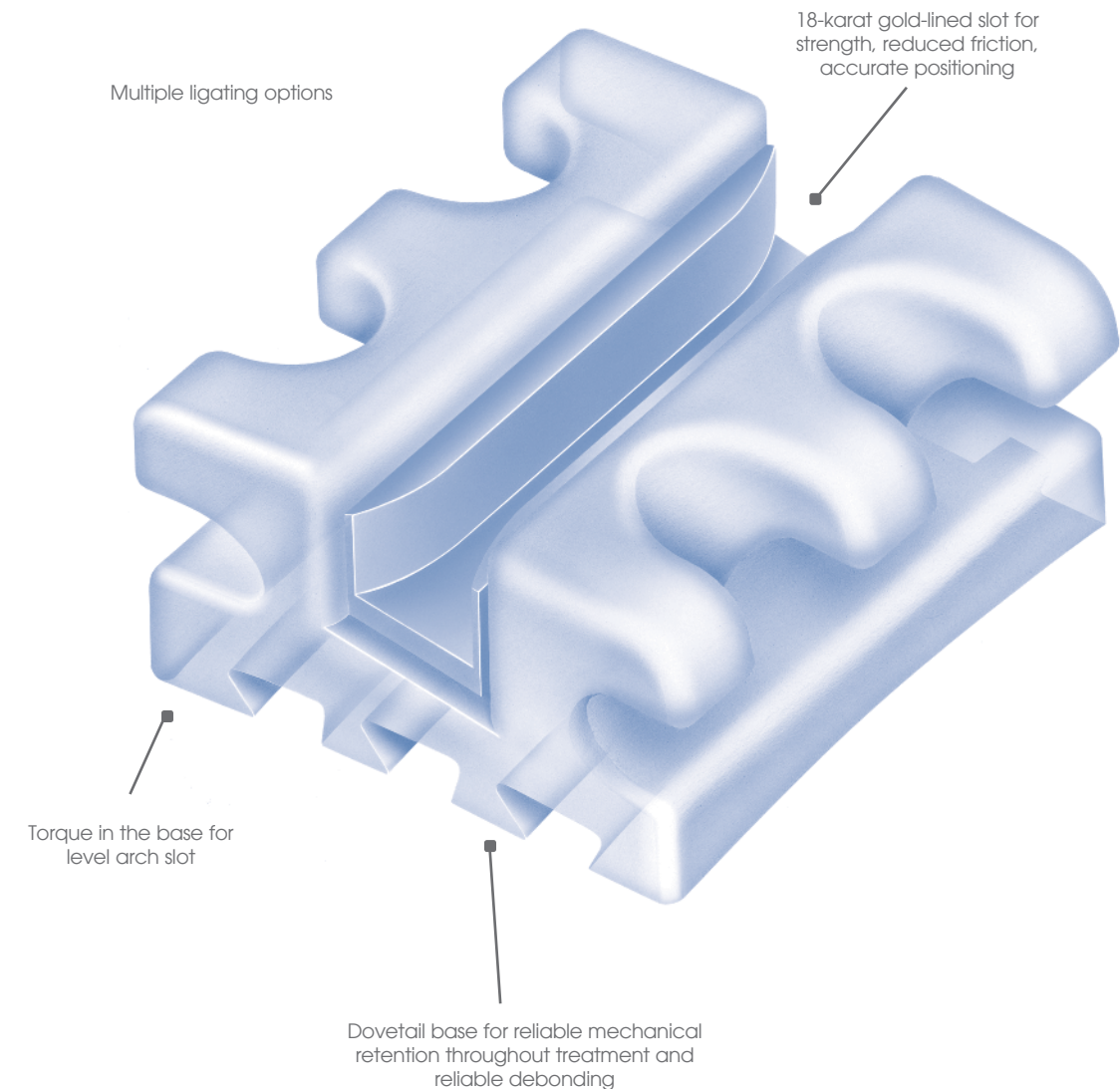
Synergy LUX allows the free movement of wire during alignment just like self-ligating brackets. Synergy's family of brackets are the only brackets that allow tooth-by-tooth selected friction control over the entire course of treatment.

Multiple ligation

With all six tie wings in the same dimension, this design allows for easy ligation, greater strength and increased patient comfort. The six tie wings also permit multiple ligation from zero-friction on the arch wire to full figure-eight ligation.

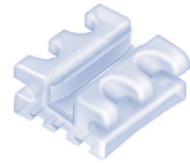
Available in these techniques:

- Straight Wire Low Friction (SWLF®)
- RMO's Version of Roth Straight Wire System







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SYNERGY LUX® CERAMIC
STRAIGHT WIRE LOW FRICTION (SWLF®)



Maxillary brackets

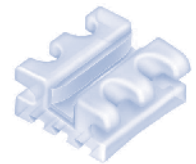
					.018 Arch Slot	.022 Arch Slot
Angulation	Torque	Width	Right/Left			
Central						
Red 	3°	17°	3.4mm	R	Q04800	Q04900
				L	Q04801	Q04901
Lateral						
Blue 	9°	8°	3.4mm	R	Q04802	Q04902
				L	Q04803	Q04903
Cuspid						
Green 	8°	0°	3.4mm	R	Q04806	Q04906
	With hook			L	Q04807	Q04907
First/Second Bicuspid						
Black 	0°	-7°	3.4mm	R/L	Q04810	Q04910
	With hook					

Maxillary tubes



							.018 Arch Slot		.022 Arch Slot	
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
First Molar										
Triple convertible with hook										
0°	-14°	10°	4.2mm	.045 occlusal	R	A08532	A05708	A08552	A05728	
Torque in base.						L	A08533	A05709	A08553	A05729
Second Molar										
Single convertible with hook										
0°	-14°	10°	3.3mm		R	A08534	A05710	A08554	A05730	
Torque in base.						L	A08535	A05711	A08555	A05731

fixedappliances

SYNERGY LUX® CERAMIC
STRAIGHT WIRE LOW FRICTION (SWLF®)



Mandibular brackets

					.018 Arch Slot	.022 Arch Slot		
Angulation	Torque	Width	Right/Left					
Central/Lateral								
Orange 	0°	0°	2.8mm	R/L	Q04820	Q04920		
Cuspid								
Purple 	0°	0°	3.4mm					
With hook						R/L	Q04826	Q04926
First/Second Bicuspid								
Yellow 	0°	-17°	3.4mm					
With hook						R/L	Q04830	Q04930

Mandibular tubes

						.018 Arch Slot		.022 Arch Slot		
Angulation	Torque	Distal Offset	Width	Right/Left	On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands		
First Molar										
Double convertible with hook										
0°	-25°	8°	4.2mm	R	A08536	A05712	A08556	A05732		
Torque in base.						L	A08537	A05713	A08557	A05733
Second Molar										
Single convertible with hook										
0°	-20°	8°	3.3mm	R	A08538	A05714	A08558	A05734		
Torque in base.						L	A08539	A05715	A08559	A05735

KITS

Single Case, 20 Brackets

- KQ04802** SWLF® Synergy LUX® .018 hook on cuspid/bicuspid, 5-5
- KQ04902** SWLF® Synergy LUX® .022 hook on cuspid/bicuspid, 5-5

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar (Ricketts®)									
Triple convertible									
0°	0°	0°	3.8mm	.045 gingival					
Without hook					R/L	A08120	A01120	A08130	A01130
With hook					R	A08122	A01122	A08132	A01132
					L	A08123	A01123	A08133	A01133
First Molar (Ricketts®)									
Triple non-convertible									
0°	0°	0°	3.8mm	.045 occlusal					
Without hook					R/L	A08124	A01124		
With hook (universal)					R/L	A08125	A01125		
First Molar (Ricketts®)									
Triple convertible with hook									
0°	0°	15°	4.2mm	.045 gingival					
Headgear tube: 0° offset					R	A08134	A04954		
					L	A08135	A04955		
First Molar (Ricketts®)									
Triple convertible with hook									
0°	0°	15°	3.8mm	.045 gingival					
					R	A08360	A04960		
					L	A08361	A04961		
First Molar									
Triple convertible with hook									
0°	0°	15°	3.8mm	.045 occlusal					
					R	A08056	A01156		
Headgear tube: 0° offset					L	A08057	A01157		
Auxiliary tube: 0° angulation, 0° torque, 0° DO									

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar (Bench)									
Triple convertible with hook									
0°	-10°	15°	3.8mm	.045 occlusal	R	A08060	A01160	A08070	A01170
Headgear tube: 0° offset					L	A08061	A01161	A08071	A01171
Auxiliary tube: 0° torque, 0° offset									
Torque in base.									
First Molar (Bench)									
Double convertible with hook									
0°	-10°	15°	3.8mm		R	A08078	A01178	A08080	A01180
Auxiliary tube: 0° torque, 0° offset					L	A08079	A01179	A08081	A01181
Torque in base.									
First Molar (Bench)									
Single convertible tube/bracket with hook									
0°	-10°	15°	3.8mm		R	A08294	A01194	A08494	A01294
					L	A08295	A01195	A08495	A01295
Torque in base.									
Second Molar (Ricketts®)									
Single with hook									
0°	0°	12°	3.3mm		R	A08382	A04982		
					L	A08383	A04983		
Second Molar (Bench)									
Single with hook									
0°	-10°	12°	3.3mm		R	A08062	A01162	A08072	A01172
					L	A08063	A01163	A08073	A01173

Mandibular tubes

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar								
Double non-convertible with ball hook								
-5°	0°	0°	4.8mm	R/L		A01190		
				R	A08392			
				L	A08393			
Not preangulated.								
First/Second Molar (Ricketts®)								
Twin with hook								
-5°	-22°	12°	3.8mm	R	A08114	A01032		
				L	A08115	A01033		
Preangulated.								
First Molar (Ricketts®)								
Double convertible with hook								
-5°	-22°	12°	3.8mm	R	A08034	A04934		
				L	A08035	A04935		
Auxiliary tube: 0° angulation 0° torque, 0° offset Preangulated. Torque in base.								
First Molar (Ricketts®)								
Double convertible with hook								
-5°	-24°	12°	3.8mm	R	A08364	A04964		
				L	A08365	A04965		
Preangulated. Torque in base.								
First Molar (Ricketts®)								
Double convertible with hook								
-5°	-24°	12°	3.8mm	R	A08386	A04986		
				L	A08387	A04987		
Auxiliary tube: 0° angulation 0° torque, 0° Offset Preangulated. Torque in base.								
First Molar (Bench)								
Double convertible with hook								
-5°	-27°	6°	3.8mm	R	A08064	A01164	A08074	A01174
				L	A08065	A01165	A08075	A01175
Auxiliary tube: 0° angulation 0° torque, 0° offset Preangulated. Torque in base.								

Mandibular tubes

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot	
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar (Ricketts®)								
Single convertible tube/bracket with hook								
-5°	-24°	12°	3.8mm	R	A08378	A04978		
				L	A08379	A04979		
Single with hook without cap								
-5°	-24°	12°	3.8mm	R	A08368	A04968		
				L	A08369	A04969		
Preangulated. Torque in base.								
First Molar (Bench)								
Single convertible tube/bracket with hook								
-5°	-27°	6°	3.8mm	R	A08298	A01198		
				L	A08299	A01199		
Single with hook without cap								
-5°	-27°	6°	3.8mm	R	A08296	A01196		
				L	A08297	A01197		
Preangulated. Torque in base.								
Second Molar (Ricketts®)								
Single with hook								
-5°	-34°	6°	3.3mm	R	A08390	A04990		
				L	A08391	A04991		
Preangulated.								
Second Molar (Bench)								
Single with hook								
-5°	-27°	6°	3.3mm	R	A08066	A01166	A08076	A01176
				L	A08067	A01167	A08077	A01177
Preangulated. Torque in base.								

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar									
Double convertible with hook									
0°	0°	0°	3.8mm	.045 occlusal	R	A08030	A04630	A08032	A04632
					L	A08031	A04631	A08033	A04633
First Molar RMO® Version of the (Tip Edge Technique)									
Double non-convertible with hook									
0°	-10°	6°	5.8mm	.036 gingival	R				A06080
					L				A06081

Mandibular tubes

Angulation	Torque	Distal Offset	Width	Lip Bumper	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar									
Single convertible with hook									
0°	0°	0°	4.2mm						
With hook									
					R	A08042	A04842	A08052	A04852
					L	A08043	A04843	A08053	A04853
Without hook									
					R/L		A04840		A04850
					R/L	A08040		A08050	
First Molar (Wilson®)									
Double non-convertible with mesial hook									
0°	0°	0°	5.0mm		R		A04370		A04372
					L		A04371		A04373
First Molar									
Double convertible with hook									
0°	0°	0°	5.5mm						
With hook									
					R	A08038	A04838	A08048	A04848
					L	A08039	A04839	A08049	A04849
Without hook									
					R/L		A04836		A04846
					R/L	A08036		A08046	
First Molar RMO® Version of the (Tip Edge Technique)									
Double non-convertible with hook									
0°	-27°	0°	5.8mm	.036 gingival	R				A06082
					L				A06083

Molar tubes - single round

Angulation	Torque	Distal Offset	Width	Headgear	Tubes Only/ On Bands
First Molar (Johnson Technique)					
0°	0°	0°	7.1mm	.045	A00111
First Molar					
0°	0°	0°	6.4mm	.036	A00161

Molar tubes - single Edgewise

Angulation	Torque	Distal Offset	Width	Right/Left	.018 Arch Slot		.022 Arch Slot		
					On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands	
With Distal Extension									
0°	0°	0°	4.7mm	R/L	A08000	A00160	A08010	A00101	
Without Distal Extension									
				R/L			A08012	A00210	
Long Flange Type									
0°	0°	0°	5.6mm						
Without hook									
				R/L		A00952		A00953	
With hook maxillary right or mandibular left									
					A08006	A00954	A08016	A00955	
With hook maxillary left or mandibular right									
					A08007	A00956	A08017	A00957	
Long Flange Type with Distal Offset									
0°	0°	6°	5.7mm						
Without hook									
				R/L				A00975	
With hook maxillary right or mandibular left									
								A00977	
With hook maxillary left or mandibular right									
								A00979	

Maxillary tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tubes Only/ On Bands	On Bases	Tubes Only/ On Bands
First Molar									
0°	0°	0°	4.8mm	.045 gingival					
Without hook					R/L	A00295			
With hook					R/L	A00928			
0°	0°	0°	4.8mm	.051 occlusal					
Without hook					R/L		A08015	A00283	
With hook					R/L			A00929	
First Molar									
Double Long Flange Type									
0°	0°	0°	5.6mm	.045 occlusal					
Without hook					R	A00958		A00960	
					L	A00962		A00964	
With hook					R	A00966		A00968	
					L	A00970		A00972	
First Molar									
Double Long Flange Type									
0°	0°	6°	5.6mm	.045 occlusal					
Without hook					R			A00982	
					L			A00986	
With hook					R			A00990	
					L			A00994	
First Molar									
Double convertible with hook									
0°	0°	0°	3.8mm	.045 occlusal	R	A08030	A04630	A08032	A04632
					L	A08031	A04631	A08033	A04633



Wilson® 3D® Tube

Designed to accept Lingual 3D® FIXED/REMOVABLE™ Modular Orthodontics® (Wilson®) appliances.

	Order Number	Package Contains
Tube without hook	A04315	10
Tube with gingival hook	A04314	10



Gaston-type single vertical lingual tube for .036 Ellis prefabricated lingual arches

	Order Number	Package Contains
Tube .030" x .075" I.D. (0.762mm x 1.905mm)	A00178	10



Ellis-type lingual tube with locking knob for .036 Ellis prefabricated lingual arches

	Order Number	Package Contains
Tube .030" x .075" I.D. (0.762mm x 1.905mm)	A00173	10



Solderable lingual post use only with the lingual tubes A00173 and A00178

	Order Number	Package Contains
.036 lingual arch wire (0.914mm)	A00236	10



Horizontal Lingual Sheath w. Hook

	Order Number	Package Contains
.036 wire (0.914mm)	A00148	10

Maxillary tubes

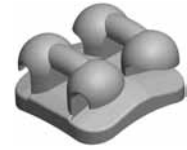
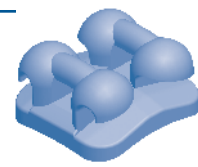
Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
Single with Hook									
0°	-10°	0°	4.5mm		R	A08730	A06730	A08734	A06734
					L	A08731	A06731	A08735	A06735
First Molar									
Single with Hook									
0°	-10°	10°	4.5mm		R	A18750		A18754	
					L	A18751		A18755	
Second Molar									
Single with Hook									
0°	-10°	0°	3.5mm		R	A08732	A06732	A08736	A06736
					L	A08733	A06733	A08737	A06737
Second Molar									
Single with Hook									
0°	-10°	10°	3.5mm		R	A18752		A18756	
					L	A18753		A18757	



Mandibular tubes

Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
Single with Hook									
0°	-25°	0°	4.5mm		R	A08740	A06740	A08744	A06744
					L	A08741	A06741	A08745	A06745
First Molar									
Single with Hook									
0°	-25°	5°	4.5mm		R	A18758		A18762	
					L	A18759		A18763	
Second Molar									
Single with Hook									
0°	-25°	0°	3.5mm		R	A08742	A06742	A08746	A06746
					L	A08743	A06743	A08747	A06747
Second Molar									
Single with Hook									
0°	-25°	5°	3.5mm		R	A18760		A18764	
					L	A18761		A18765	





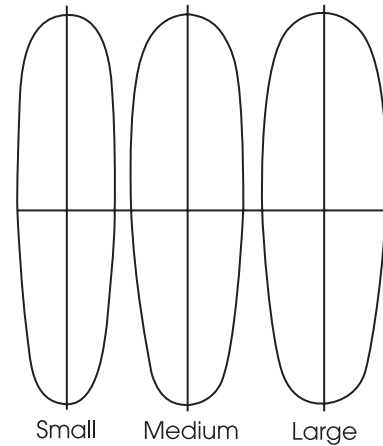
i-TTR Lingual System

The intelligent lingual treatment with Torque, Tip and Rotation (i-TTR) control. The bracket presents two slots for round arches and a rectangular central slot for auxiliary insert. The three slots permit a progressive modular control of all tooth movement. A universal bracket for all teeth, including molars.

	Order Number	Package Contains
i-TTR Lingual Bracket	M00700	10 brackets
i-TTR Lingual Bracket Kit	KM00700	36 brackets

Orthohol® Nickel-Titanium Preformed Lingual Arches (round)

Lingual Archwire Upper



Wire Size		Order Number	Package Contains
.012 (0.305mm)	Maxillary-Small	E01720	10 wires
.014 (0.356mm)	Maxillary-Small	E01721	10 wires
.016 (0.406mm)	Maxillary-Small	E01722	10 wires
.012 (0.305mm)	Maxillary-Medium	E01723	10 wires
.014 (0.356mm)	Maxillary-Medium	E01724	10 wires
.016 (0.406mm)	Maxillary-Medium	E01725	10 wires
.012 (0.305mm)	Maxillary-Large	E01726	10 wires
.014 (0.356mm)	Maxillary-Large	E01727	10 wires
.016 (0.406mm)	Maxillary-Large	E01728	10 wires
.012 (0.305mm)	Mandibular-Small	E01740	10 wires
.014 (0.356mm)	Mandibular-Small	E01741	10 wires
.016 (0.406mm)	Mandibular-Small	E01742	10 wires
.012 (0.305mm)	Mandibular-Medium	E01743	10 wires
.014 (0.356mm)	Mandibular-Medium	E01744	10 wires
.016 (0.406mm)	Mandibular-Medium	E01745	10 wires
.012 (0.305mm)	Mandibular-Large	E01746	10 wires
.014 (0.356mm)	Mandibular-Large	E01747	10 wires
.016 (0.406mm)	Mandibular-Large	E01748	10 wires

i-TTR Lingual System – Small Arch Introductory Kit

- Small arches: MX/MN, .012, .014, .016
- Bracket cases

K00700 5 kits/180 brackets
6 pks/60 wires

i-TTR Lingual System – Medium Arch Introductory Kit

- Medium arches: MX/MN, .012, .014, .016
- Bracket cases

K00701 5 kits/180 brackets
6 pks/60 wires

i-TTR Lingual System – Large Arch Introductory Kit

- Large arches: MX/MN, .012, .014, .016
- Bracket cases

K00702 5 kits/180 brackets
6 pks/60 wires

i-TTR Instruments

- Utility Tweezer **T00700** 1
- Wire Director **T00701** 1

See Instrument Section for images on Page 272

Begg System Maxillary/Mandibular brackets



Begg Type Light Wire Bracket

For .020 (0.508mm) arch wire

Central/Lateral

Cuspid/Bicuspid (small bonding base)

Cuspid/Bicuspid (large bonding base)

On Bases

A07934

A07935

A07933

Bracket Only/
On Bands

A01086



Plastic

Central/Lateral .016 (.0416mm) Arch Wire

Cuspid/Bicuspid .016 (.0416mm) Arch Wire

A03506

A03507



Insert Pins (Brass)

Brass Lok Pin for Bracket A01086 w/.016 (.0416mm) Wire

Pkg. 100 approx.

A01087

Image	FOR BANDS				ON BASES				Description	Angulation	Torque	Rotation	Width (mm)	Page No.
	Universal	Right	Left	Universal	Right	Left	Right	Left						
	A00160			A08000					0°	0°	0°	4.7	189	
	A00952	A00954 UR/LL	A00956 UR/LL						0°	0°	0°	5.6	189	
									0°	0°	0°	5.6	189	
		A01194	A01195	A08294	A08295				0°	-10°	15° DO	3.8	105, 137, 164, 174, 185	
		A05664	A05665	A08634	A108635				0°	-10°	15° DO	3.8	101, 124, 129, 131, 138, 152, 170, 182	
		A06730	A06731	A08730	A08731				0°	-10°	0°	4.5	189	
		A04382	A04383	A08182	A08183				0°	-10°	6° DO	3.3	144	
		A04982	A04983	A08382	A08383				0°	0°	12° DO	3.3	109, 112, 154, 162, 172, 185	
		A05402	A04983	A08502	A08503				0°	-14°	14° DO	3.3	142, 164, 176	
		A05406A	A05403	A08506	A08507				0°	-9°	10° DO	3.3	142, 164, 176	
		A05566	A05407	A08606	A08607				0°	-14°	14° DO	3.3	101, 118, 126, 129, 138, 152, 160, 170, 182	
		A05710	A05711	A08534	A08535				0°	-14°	10° DO	3.3	74, 76, 78, 94, 124, 180	
		A06108	A06109	A08408	A08409				5°	-9°	10° DO	3.3	141	
		A06110	A06111	A08410	A08411				0°	-9°	10° DO	3.3	141	
	A06732	A06733		A08732	A08733				0°	-10°	0°	4.5		

Image	FOR BANDS				ON BASES				Description	Angulation	Torque	Rotation	Width (mm)	Page No.
	Universal	Right	Left	Universal	Right	Left	Right	Left						
									0°	-27°	6° DO	3.8	107, 139, 166, 175, 187	
									0°	-27°	6° DO	3.8	107, 139, 166, 175, 187	
									-6°	-22°	5° DO	3.8	145	
				A08040					0°	0°	0°	4.2	188	
									0°	0°	0°	4.2	188	
									-5°	-24°	12° DO	3.8	187	
									-5°	-24°	12° DO	3.8	187	
									0°	-22°	5° DO	3.8	149, 167, 177	
									-1°	-30°	0	3.8	103, 127, 130, 135, 153, 161, 171, 183	
									2°	-30°	0	3.8	143	
									0°	-25°	0°	4.5		
									0°	-25°	5°	4.5		
									-5°	-27°	6° DO	3.3	107, 115, 117, 139, 166, 175, 187	
									-6°	-27°	6° DO	3.3	145	
									-5°	-34°	6° DO	3.3	111, 113, 119, 155, 163, 173, 187	
									0°	-10°	6° DO	3.3	149, 167, 177	
									-1°	-30°	4° DO	3.3	103, 127, 130, 135, 143, 153, 161, 171, 183	
									0°	-20°	8° DO	3.3	75, 77, 79, 97, 125, 181	
									2°	-35°	0°	3.3	143	
									0°	-25°	0°	3.5		
									0°	-25°	5°	3.5		

fixedappliances

SINGLE BUCCAL TUBES CHART – 0.022

Image	FOR BANDS			ON BASES		Description	Angulation	Torque	Rotation	Width (mm)	Page No.
	Universal	Right	Left	Right	Left						
	A00101			A0810		Long, distal extension	0°	0°	4.8	189	
	A00210			A08012		w/out distal extension	0°	0°	4.8	189	
	A00933					Long flange, distal extension	0°	0°	5.6	189	
	A00955	A00957	A00979	A08016	A08017	Long flange, distal extension, w/hook	0°	0°	5.6	189	
	A00977	A00979	A00979			Long flange, distal extension, w/hook	0°	0°	5.7	189	
	A01294	A01295		A07494	A08495	Maxillary 1st convertible, w/hook	0°	-10°	3.8	137, 185	
	A06734	A06735		A08734	A08735	Maxillary 1st, w/hook	0°	-10°	4.5		
				A18754	A18755	Maxillary 1st, w/hook	0°	-10°	4.5		
	A01172	A01173		A08072	A08073	Maxillary 2nd, w/hook	0°	-10°	3.3	137, 185	
	A04392	A04393		A08192	A08931	Maxillary 2nd, w/hook	0°	-10°	3.3	144	
	A05502	A05503		A08510	A08511	Maxillary 2nd, w/hook	0°	-14°	3.3	142, 164, 176	
	A05506	A05507		A8514	A08515	Maxillary 2nd, w/hook	0°	-9°	3.3	142, 164, 176	
	A05676	A05677		A08626	A08627	Maxillary 2nd, w/hook	0°	-14°	3.3	101, 118, 126, 140, 170, 182	
	A05730	A05731		A08554	A08555	Maxillary 2nd, convertible, w/hook	0°	-14°	3.3	74, 76, 78, 96, 124, 180	
	A06148	A06149		A08448	A08449	Maxillary 2nd, w/hook, not preangulated	5°	-9°	3.3	141	
	A6150	A06151		A08450	A08451	Maxillary 2nd, w/hook	0°	-9°	3.3	141	
	A06736	A06737		A08736	A08737	Maxillary 2nd, w/hook	0°	-10°	3.5		
				A18756	A18757	Maxillary 2nd, w/hook	0°	-10°	3.5		

SINGLE BUCCAL TUBES

fixedappliances

SINGLE BUCCAL TUBES CHART – 0.022

Image	FOR BANDS			ON BASES		Description	Angulation	Torque	Rotation	Width (mm)	Page No.
	Universal	Right	Left	Right	Left						
				A0819A	A0819A	Mandibular 1st, convertible, w/hook, not preangulated	-6°	-22°	5° DO	3.8	145
				A08050		Mandibular 1st, convertible	0°	0°	0°	4.3	188
				A08053	A08052	Mandibular 1st, convertible, w/hook	0°	0°	0°	4.3	188
				A08521	A08520	Mandibular 1st, convertible, w/hook	0°	-22°	5° DO	3.8	149, 167, 177
				A08641	A08640	Mandibular 1st, convertible, w/hook, not preangulated	1°	-30°	0°	3.8	103, 127, 130, 135, 143, 163, 164, 171, 183
				A08461	A08460	Mandibular 1st, convertible, w/hook, not preangulated	2°	-30°	0°	3.8	143
				A08745	A08744	Mandibular 1st, w/hook	0°	-25°	0°	4.5	
				A18763	A18762	Mandibular 1st, w/hook	0°	-25°	5°	4.5	
				A08077	A08076	Mandibular 2nd, w/hook	-5°	-27°	6° DO	3.3	139, 187
				A08197	A08196	Mandibular 2nd, w/hook, not preangulated	-6°	-27°	6° DO	3.3	145
				A08523	A08522	Mandibular 2nd, w/hook	0°	-10°	6° DO	3.3	149, 167, 177
				A08633	A08632	Mandibular 2nd, w/hook, not preangulated	-1°	-30°	4° DO	3.3	103, 127, 130, 135, 143, 163, 164, 171, 183
				A08559	A08558	Mandibular 2nd, convertible, w/hook	0°	-20°	8° DO	3.3	75, 77, 79, 97, 125, 181
				A08467	A08466	Mandibular 2nd, w/hook, not preangulated	2°	-35°	0°	3.3	143
				A08747	A08746	Mandibular 2nd, w/hook	0°	-25°	0°	3.5	
				A18764	A18764	Mandibular 2nd, w/hook	0°	-25°	5°	3.5	

SINGLE BUCCAL TUBES

Image	FOR BANDS			ON BASES			0.018			MAIN ARCH SLOT			HEADGEAR			AUXILIARY SLOT			Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	R	LOC.	SIZE	A	T	R	
	A06106	A06107	A06105	A08406	A08407	A08405	Maxillary, convertible, w/hook	0°	-9°	10° DO	3.8	0°	0°	occlusal	.045				141
	A06104	A06103	A06105	A08404	A08405	A08405	Maxillary, convertible, w/hook, not preangulated	5°	-9°	10° DO	3.8	0°	0°	occlusal	.045				141
	A06102	A06103	A06105	A08402	A08403	A08403	Maxillary, convertible, w/hook	0°	-9°	10° DO	3.8	0°	0°	gingival	.045				141
	A06100	A06101	A06105	A08400	A08401	A08401	Maxillary, convertible, w/hook, not preangulated	5°	-9°	10° DO	3.8	5°	0°	gingival	.045				141
	A05688	A05689	A05685	A08688	A08689	A08685	Maxillary, no-cap, w/hook	0°	-14°	14° DO	3.8					0°	-14°	14° DO	101, 126, 129, 133, 152, 160, 170, 182
	A05684	A05685	A05685	A08684	A08685	A08685	Maxillary, convertible, w/hook	0°	-14°	14° DO	3.8	0°	0°			0°	-14°	14° DO	101, 126, 129, 133, 152, 160, 170, 182
	A05652	A05653	A05653	A08602	A08603	A08603	Maxillary, convertible, w/ball hook	0°	-14°	14° DO	4.2	0°	14° DO	occlusal	.045				101, 126, 129, 133, 152, 160, 170, 182
	A05650	A05651	A05651	A08600	A08601	A08601	Maxillary, convertible, w/hook	0°	-14°	14° DO	3.8	0°	14° DO	gingival	.045				101, 126, 129, 133, 152, 160, 170, 182
	A05404	A05405	A05405	A08504	A08505	A08505	Maxillary, convertible, w/hook	0°	-9°	10° DO	3.8	0°	0°	gingival	.045				147, 166, 176
	A05400	A05401	A05401	A08500	A08501	A08501	Maxillary, convertible, w/hook	0°	-14°	14° DO	3.8	0°	14° DO	gingival	.045				147, 166, 176
	A04630	A04631	A04631	A08030	A08031	A08031	Maxillary, convertible, w/hook	0°	0°	0°	3.8	0°	0°	occlusal	.045				188, 190
	A04380	A04381	A04381	A08180	A08181	A08181	Maxillary, convertible, w/hook	0°	-10°	15° DO	3.8	0°	0°	occlusal	.045				144
	A04360	A04361	A04361				Maxillary, w/hook	0°	0°	6° DO	6.4	0°	6° DO	gingival	.045				23
	A01178	A01179	A01179	A08078	A08079	A08079	Maxillary, convertible, w/hook	0°	-10°	15° DO	3.8	0°	0°			0°	0°		105, 137, 164, 174, 185
	A00928						Maxillary, w/hook	0°	0°	0°	4.8	0°	0°	gingival	.045				190
	A00295						Maxillary	0°	0°	0°	4.8	0°	0°	gingival	.045				190
	A00966	A00970					Long flange, distal extension, w/hook, maxillary	0°	0°	0°	5.6	0°	0°	occlusal	.045				190
	A00958	A00962					Long flange, distal extension, maxillary	0°	0°	0°	5.6	0°	0°	occlusal	.045				190

Image	FOR BANDS			ON BASES			0.018			MAIN ARCH SLOT			AUXILIARY SLOT			Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	T	R		
	A01032	A01032	A01033	A08030	A08030	A08030	Mandibular, w/hook	0°	-5°	12° DO	3.8	0°	-22°	12° DO	116, 117, 186	
	A01164	A01164	A01165	A08030	A08030	A08030	Mandibular, convertible, w/hook	0°	-5°	6° DO	3.8	0°	-27°	6° DO	107, 119, 139, 166, 175, 186	
				A08363	A08362	A08363	Mandibular, w/hook, not preangulated	0°	0°	0°	4.8	0°	0°	0°	186	
	A04370	A04370	A04371	A08020			Mandibular, w/centered hook	0°	0°	0°	4.8	0°	0°	0°	Special Order	
				A08036			Mandibular, w/mesial hook	0°	0°	0°	5.0	0°	0°	0°	23, 188	
	A04838	A04838	A04839	A08036			Mandibular, convertible	0°	0°	0°	5.5	0°	0°	0°	188	
	A04934	A04934	A04935	A08036	A08036	A08036	Mandibular, convertible, w/hook	0°	0°	0°	5.5	0°	0°	0°	188	
	A04964	A04964	A04965	A08036	A08036	A08036	Mandibular, convertible, w/hook	0°	-5°	12° DO	3.8	0°	-22°	12° DO	186	
	A04986	A04986	A04987	A08036	A08036	A08036	Mandibular, convertible, w/hook	0°	-5°	12° DO	3.8	0°	-24°	12° DO	111, 113, 155, 163, 173, 186	
	A05668	A05668	A05669	A08608	A08609	A08609	Mandibular, convertible, w/hook, not preangulated	0°	-5°	12° DO	3.8	0°	-24°	12° DO	111, 113, 155, 163, 173, 186	
	A05712	A05712	A05713	A08536	A08537	A08537	Mandibular, convertible, w/hook	0°	0°	8° DO	4.2	0°	-25°	8° DO	103, 127, 130, 135, 143, 153, 161, 171, 183, 75, 77, 79, 97, 125, 181	

Image	FOR BANDS				ON BASES				0.022				MAIN ARCH SLOT				HEADGEAR				AUXILIARY SLOT				Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	R	LOC.	SIZE	A	T	R	LOC.	SIZE	A	T	R	Page No.	
		A00960	A00964				Long flange, distal extension, maxillary	0°	0°	0°	5.6	0°	0°	occlusal	.045									101, 126, 129, 133, 152, 160, 170, 182	
		A00968	A00972				Long flange, distal extension, maxillary w/ hook, maxillary	0°	0°	0°	5.6	0°	0°	occlusal	.045									101, 126, 129, 133, 152, 160, 170, 182	
		A00982	A00986				Long flange, distal extension, maxillary	0°	0°	6° DO	5.7	0°	6° DO	occlusal	.045									190	
		A00990	A00994				Long flange, distal extension, w/ hook, maxillary	0°	0°	6° DO	5.7	0°	6° DO	occlusal	.045									190	
				A08015			Maxillary	0°	0°	0°	4.8	0°	0°	occlusal	.051									190	
	A00929						Maxillary, w/ hook	0°	0°	0°	4.8	0°	0°	occlusal	.051									190	
		A01180	A01181		A08080	A08081	Maxillary, convertible, w/ hook	0°	0°	15° DO	3.8	0°	0°	occlusal	.051	0°	0°	0°						137, 185	
		A04362	A04363				Maxillary, w/ hook	0°	0°	6° DO	6.4	0°	6° DO	gingival	.045									23	
		A04390	A04391		A08190	A08191	Maxillary, convertible, w/ hook	0°	0°	15° DO	3.8	0°	0°	occlusal	.045									144	
		A04632	A04633		A08032	A08033	Maxillary, convertible, w/ hook	0°	0°	0°	3.8	0°	0°	occlusal	.045									188, 190	
		A05500	A05501		A08508	A08509	Maxillary, convertible, w/ hook	0°	0°	14° DO	3.8	0°	14° DO	gingival	.045									147, 166, 176	
		A05504	A05505		A08612	A08613	Maxillary, convertible, w/ hook	0°	0°	10° DO	3.8	0°	0°	gingival	.045									101, 126, 129, 133, 152, 160, 170, 182	
		A05670	A05671		A08620	A08621	Maxillary, convertible, w/ hook	0°	0°	14° DO	3.8	0°	14° DO	gingival	.045									101, 126, 129, 133, 152, 160, 170, 182	
		A05672	A05673		A08622	A08623	Maxillary, convertible, w/ ball hook	0°	-14°	14° DO	4.2	0°	14° DO	occlusal	.045									101, 126, 129, 133, 152, 160, 170, 182	

Image	FOR BANDS				ON BASES				0.022				MAIN ARCH SLOT				HEADGEAR				AUXILIARY SLOT				Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	R	LOC.	SIZE	A	T	R	LOC.	SIZE	A	T	R	Page No.	
		A05686	A05690				Maxillary, convertible, w/ hook	0°	0°	0°	3.8	0°	0°			0°	0°	14° DO			0°	0°	14° DO	101, 126, 129, 133, 152, 160, 170, 182	
		A06080	A06140				Maxillary, w/ hook	0°	0°	0°	5.8	0°	0°	6° DO	.036	0°	0°	6° DO	gingival		0°	0°	0°	101, 126, 129, 133, 152, 160, 170, 182	
		A06140	A06142		A08440	A08441	Maxillary, convertible, w/ hook, not preangulated	5°	-9°	10° DO	3.8	5°	0°	0°	.045	5°	-9°	10° DO	gingival	.045	0°	0°	0°	141	
		A06144	A06146		A08442	A08443	Maxillary, convertible, w/ hook, not preangulated	5°	-9°	10° DO	3.8	5°	0°	0°	.045	5°	-9°	10° DO	gingival	.045	0°	0°	0°	141	
		A06146	A06147		A08444	A08447	Maxillary, convertible, w/ hook	0°	0°	10° DO	3.8	0°	0°	0°	.045	0°	0°	10° DO	occlusal	.045	0°	0°	0°	141	
		A01174	A01175		A08074	A08075	Maxillary, convertible, w/ hook	-5°	-27°	6° DO	3.8	-5°	0°	0°	.045	-5°	-27°	6° DO	occlusal	.045	0°	0°	0°	139, 186	
		A04372	A04373				Mandibular, w/ mesial hook	0°	0°	0°	5.0	0°	0°			0°	0°	0°			0°	0°	0°	23, 188	
	A04846	A04848	A04849	A08046	A08048	A08049	Mandibular, convertible	0°	0°	0°	5.5	0°	0°			0°	0°	0°			0°	0°	0°	188	
		A05678	A05679		A08628	A08629	Mandibular, convertible, w/ hook, not preangulated	-1°	-30°	4° DO	3.8	-1°	0°	0°		-1°	-30°	4° DO			0°	0°	0°	103, 127, 130, 135, 143, 153, 161, 171, 183	
		A05732	A05733		A08556	A08557	Mandibular, convertible, w/ hook, not preangulated	0°	-25°	8° DO	4.2	0°	0°	0°		0°	-25°	8° DO			0°	0°	0°	75, 77, 79, 97, 125, 181	
		A06082	A06083				Mandibular, w/ hook	0°	-27°	0°	5.8	0°	0°	0°	.036	0°	-27°	0°	gingival	.036	0°	0°	0°	188	

Image	FOR BANDS				ON BASES				0.018				MAIN ARCH SLOT				HEADGEAR				AUXILIARY SLOT				Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	R	LOC.	SIZE	A	T	R	Page No.						
	A04954	A04955	A08120	A08134	A08135	Convertible, w/hook	0°	0°	15° DO	4.2	0°	0°	gingival	.045	0°	0°	15° DO	184							
	A01120	A01123	A08120	A08122	A08123	Maxillary, convertible w/hook	0°	0°	0°	3.8	0°	0°	gingival	.045	0°	0°	0°	184							
	A01124		A08124			Maxillary, non-convertible, w/hook	0°	0°	0°	3.8	0°	0°	occlusal	.045	0°	0°	0°	184							
	A01125		A08125			Maxillary, non-convertible, w/hook	0°	0°	0°	3.8	0°	0°	occlusal	.045	0°	0°	0°	184							
	A01156	A01157	A08056	A08057	A08057	Maxillary, convertible, w/hook	0°	0°	15° DO	3.8	0°	0°	occlusal	.045	0°	0°	0°	184							
	A01160	A01161	A08060	A08061	A08061	Maxillary, convertible, w/hook	0°	-10°	15° DO	3.8	0°	0°	occlusal	.045	0°	0°	0°	184							
	A04960	A04961	A08360	A08361	A08361	Maxillary, convertible, w/hook	0°	0°	15° DO	3.8	0°	0°	gingival	.045	0°	0°	15° DO	101, 118, 126, 129, 133, 152, 160, 170, 182, 185							
	A05654	A05655	A08604	A08605	A08605	Maxillary, convertible, w/hook	0°	-14°	14° DO	3.8	0°	0°	occlusal	.045	0°	-14°	14° DO	74, 76, 78, 96, 124, 180							
	A05708	A05709	A08532	A08533	A08533	Maxillary, convertible, w/hook	0°	-14°	10° DO	4.2	0°	0°	occlusal	.045	0°	-14°	10° DO	103, 127, 130, 135, 143, 153, 161, 171, 183							
	A05660	A05661	A08610	A08611	A08611	Mandibular, w/hook, not preangulated	-1°	-30°	4° DO	3.8	-1°	4° DO	occlusal	.045	-1°	-30°	4° DO								

Image	FOR BANDS				ON BASES				0.022				MAIN ARCH SLOT				HEADGEAR				AUXILIARY SLOT				Page No.
	Universal	Right	Left	Universal	Right	Left	Description	A	T	R	Length M/D (mm)	A	R	LOC.	SIZE	A	T	R	Page No.						
	A01130		A08130			Maxillary, convertible	0°	0°		3.8	0°	0°	gingival	.045	0°	0°	0°	0°	184						
	A01132		A08132			Maxillary, convertible, w/hook	0°	0°	3° DO	3.8	0°	0°	gingival	.045	0°	0°	0°	0°	184						
	A01133		A08070			Maxillary, convertible, w/hook	0°	0°	15° DO	3.8	0°	0°	occlusal	.045	0°	0°	0°	0°	137, 185						
	A05674		A08625			Maxillary, convertible, w/hook	0°	-14°	14° DO	3.8	0°	0°	occlusal	.045	0°	-14°	14° DO	101, 126, 129, 133, 152, 160, 170, 182							
	A05728		A08553			Maxillary, convertible, w/hook	0°	-14°	10° DO	2.7	0°	0°	occlusal	.045	0°	-14°	10° DO	74, 76, 78, 96, 124, 180							
	A05680		A08930			Mandibular, w/hook, not preangulated	-1°	-30°	4° DO	3.8	-1°	4° DO	occlusal	.045	-1°	-30°	4° DO	103, 127, 130, 135, 143, 153, 161, 171, 183							

TAD

Vivid autumn colors in the San Juan Mountains of southwestern Colorado.



Notes, Quotes and Anecdotes

Quotes by Agatha Christie

"I like living. I have sometimes been wildly, despairingly, acutely miserable— racked with sorrow; but through it all I still know quite certainly that just to be alive, is a grand thing."

"An archeologist is the best husband any woman can have—the older she gets, the more interested he is in her."

"Curious things habits. People themselves never knew they had them."

"I don't think necessity is the mother of invention. Invention, in my opinion, rises directly from idleness, possibly also from laziness, to save oneself trouble."

"One is left with the horrible feeling now that war settles nothing; that to win a war is as disastrous as to lose one."

"The best time for planning a book is while you're doing the dishes."

TAD

DUAL-TOP TEMPORARY ANCHORAGE DEVICE (TAD)

TAD

RMO's Dual-Top Temporary Anchorage Device (TAD) system provides efficient and flexible biomechanics. Dual-Top TADs significantly enhance treatment capabilities and can be extremely effective in reducing treatment time, surgeries, and extractions. Appliances can be inserted chairside by the doctor and loaded immediately. Experience the latest generation of appliances—RMO's Dual-Top TADs.

- FDA approved
- Self-drilling and self-tapping
- No pilot hole, tissue punch, incision or flap necessary
- 100% biocompatible—titanium alloy
- Chairside insertion/removal
- Low profile—comfortable for patient
- Eliminate patient compliance issues





Dual-Top TAD System Kit

- The Dual-Top system includes with a well-organized storage block, which allows for repeated sterilization
- The Dual-Top system includes 14 of the most commonly used types and sizes of TADs
- The storage block has a layout for easy storage and TAD identification, with the thread diameters and TAD lengths etched into the block

	Order Number	Package Contains
Dual-Top TAD System Kit	K00935-2	
Kit components include:		
Button Driver Shaft (for Hand Driver Body)	G00110	
Bracket Driver Shaft (for Hand Driver Body)	G00310	
TAD System Storage Block	G00230-1	
Hand Driver Body	G00232	
Button Top TAD – Diameter 1.4mm x Length 6mm	G00111	1 each
Button Top TAD – Diameter 1.4mm x Length 8mm	G00112	2 each
Button Top TAD – Diameter 1.6mm x Length 6mm	G00113	4 each
Button Top TAD – Diameter 1.6mm x Length 8mm	G00114	2 each
Button Top TAD – Diameter 2.0mm x Length 8mm	G00117	1 each
Bracket Top TAD – Diameter 1.6mm x Length 6mm	G00313	2 each
Bracket Top TAD – Diameter 1.6mm x Length 8mm	G00314	2 each

Dual-Top Temporary Anchor Devices (TADs)

- Manufactured with surgical grade titanium alloy
- Self-drilling and self-tapping, with sharp fluted tips
- Reverse buttress thread design
- Smooth upper transmucosal shaft



Button Top TAD

- Small upper button
- Easy to attach Energy Chain™ or Nickel Titanium (NITI) Coil Springs
- Secure retention of attachments
- Low profile—patient comfort
- Oversized collar resists gingival overgrowth

Diameter x Length	Order Number	Package Contains
1.4mm x 6mm (.056" x .236")	G00111	2 each
1.4mm x 8mm (.056" x .315")	G00112	2 each
1.6mm x 6mm (.063" x .236")	G00113	2 each
1.6mm x 8mm (.063" x .315")	G00114	2 each
1.6mm x 10mm (.063" x .394")	G00115	2 each
2.0mm x 6mm (.079" x .236")	G00116	2 each
2.0mm x 8mm (.079" x .315")	G00117	2 each
2.0mm x 10mm (.079" x .394")	G00118	2 each



Cross Top TAD

- .022" cross top arch slots allow for arch wire insertion
- Low profile—patient comfort
- .027" (.69mm) diameter hole in transmucosal shaft provides secure retention for a variety of wire attachments

Diameter x Length	Order Number	Package Contains
1.4mm x 6mm (.056" x .236")	G00211	2 each
1.4mm x 8mm (.056" x .315")	G00212	2 each
1.6mm x 6mm (.063" x .236")	G00213	2 each
1.6mm x 8mm (.063" x .315")	G00214	2 each
1.6mm x 10mm (.063" x .394")	G00215	2 each
2.0mm x 6mm (.079" x .236")	G00216	2 each
2.0mm x 8mm (.079" x .315")	G00217	2 each
2.0mm x 10mm (.079" x .394")	G00218	2 each



Bracket Top TAD

- .022" arch slot for arch wire insertion
- Easy to ligate conventionally
- Oversized collar resists gingival overgrowth

Diameter x Length	Order Number	Package Contains
1.4mm x 6mm (.056" x .236")	G00311	2 each
1.4mm x 8mm (.056" x .315")	G00312	2 each
1.6mm x 6mm (.063" x .236")	G00313	2 each
1.6mm x 8mm (.063" x .315")	G00314	2 each
1.6mm x 10mm (.063" x .394")	G00315	2 each
2.0mm x 6mm (.079" x .236")	G00316	2 each
2.0mm x 8mm (.079" x .315")	G00317	2 each
2.0mm x 10mm (.079" x .394")	G00318	2 each



Cross Top with Collar TAD

- .022" cross top arch slots allow for arch wire insertion
- Easy to attach Energy Chain™ or NITI Coil Springs
- Secure retention of attachments
- Oversized collar resists gingival overgrowth

Diameter x Length	Order Number	Package Contains
1.4mm x 6mm (.056" x .236")	G00411	2 each
1.4mm x 8mm (.056" x .315")	G00412	2 each
1.6mm x 6mm (.063" x .236")	G00413	2 each
1.6mm x 8mm (.063" x .315")	G00414	2 each
1.6mm x 10mm (.063" x .394")	G00415	2 each
2.0mm x 6mm (.079" x .236")	G00416	2 each
2.0mm x 8mm (.079" x .315")	G00417	2 each
2.0mm x 10mm (.079" x .394")	G00418	2 each

	Order Number	Package Contains
 Button Driver Shaft for Contra Angle	G00100	1 each
 Cross Driver Shaft for Contra Angle	G00200	1 each
 Bracket Driver Shaft for Contra Angle	G00300	1 each
 Button Driver Shaft for Hand Driver Body	G00110	1 each
 Cross Driver Shaft for Hand Driver Body	G00210	1 each
 Bracket Driver Shaft for Hand Driver Body	G00310	1 each
 TAD System Storage Block	G00230-1	1 each
 Pilot Drill 1mm Diameter	G00231	1 each
 Hand Driver Body	G00232	1 each
 Lingual Driver for TAD	G00233	1 each

Through its revolutionary one-hand control system, user can easily approach the most difficult implanting area of maxillary and mandible jaw bone:

- Designed to be used for inserting and removing Dual-Top TADs
- Designed to be detachable for easy sterilization
- Easy implant at Maxillary and Mandibular jawbone area
- Enable user to control driver with only one-hand

TAD

TEMPORARY ANCHORAGE DEVICE (TAD) ACCESSORIES

Order Number Package Contains



Orthonia Torque Driver

G00235 1 each

Orthonia is a high-performing, battery-powered torque driver used for placing Temporary Anchorage Devices. It helps mitigate TAD failures during insertion procedures.

- Reverse Rotation Function effective for proper and safe removal of TADs
- 2 Speed Levels- Low -15 RPM and High - 20 RPM
- Convenient and Easy to set up- user friendly designed LCD and push button control panel.
- Torque limit settings- 5 torque limit levels ranging from 10N-cm to 30N-cm.
- Safety feature engages when torque limit is exceeded.
- Rechargeable Driver

Driver Adapter for Straight Shaft (included)

- Accurate rotation axis, no wobbling during insertion, high success rate for implant retention.
- RPM Control promotes stable insertion.
- Used with RMO product codes G00110, G00210, G00310.



Driver Adapter for Contra-Angle (sold separately)

G00236 1 each

- Easy access to difficult to reach areas such as: Palate, Retromolar Pad
- Adapter rotates to accommodate various angles of insertion
- Used with RMO product codes G00100, G00200, G00300



Torque Limiting Driver

G00234 1 each

- Prevent Over Torque
- Easy control
- Convenience and Simple setup Torque value
- Safe implant
- Torque Range: 6N.cm until 30N.cm
- Head separation to convenient washing
- Compatible with existing instrument



TAD NiTi Coil Springs with Eyelets

- Stainless steel eyelets are attached to each end of the closed coil spring to easily engage various appliances
- Wire diameter of .010" and inside coil diameter of .030"



Length	Order Number	Package Contains
7mm	G00304	10
9mm	G00301	10
12mm	G00302	10
15mm	G00303	10

TAD NiTi Coil Springs with Oval Eyelets

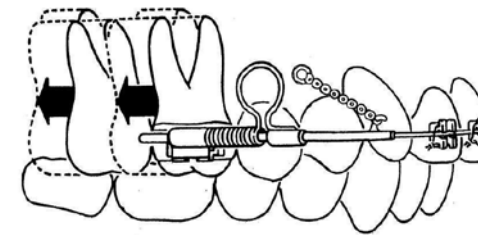
- Stainless steel eyelets attached to NiTi Coil Springs
- The pear-shaped opening allows for easy attachment to the Button Top TAD
- Wire diameter of .010" and inside coil diameter of .030"



Length	Order Number	Package Contains
8mm	G00305	10
10mm	G00306	10
12mm	G00307	10

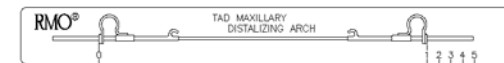
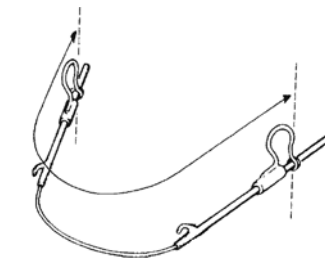
TAD

DUAL-TOP TEMPORARY ANCHORAGE DEVICE (TAD) ACCESSORIES – CRIMPABLE HOOKS/PLIERS



Maxillary Distalizing Arches - for use with TADs

- The Wilson® 3D® Maxillary Bimetric Distalizing Arch has been designed for use with TADs
- Energy Chain™, ligature wire, or coil spring connects the TAD with the gingival hook on the appliance
- Customized Distalizing Arches can be fabricated using components of the Wilson Bimetric Arch (A04127-A04129, A04150-A04154) and the Omega Adjustable Stop (A04124)



Size	Order Number	Package Contains	Kit Contains
1 - 83mm	G00351	3	1
2 - 86mm	G00352	3	1
3 - 89mm	G00353	3	1
4 - 92mm	G00354	3	1
5 - 95mm	G00355	3	3
Orthono® Coil Springs	F00126	10	10
Distalizing Arch Selector	G00360	1	1
Assorted Kit	K00930		

Order Number Package Contains



Step Plier

- Adapts Bimetric Distalizing Arches for use with occlusal headgear tubes

Step Plier - .5mm	T00132	1 each
Step Plier - 1mm	T00134	1 each



Crimpable Hooks

- Designed for rectangular wire .016" x .022" through .019" x .025"

Crimpable Hook	A00129	10/pkg
Long Crimpable Hook	A00130	10/pkg

- Can be adapted for multiple applications



Crimpable Hook Plier

- These pliers provide the ability to attach Crimpable Hooks securely to the arch wire
- Angled head is designed to improve access to the posterior region

Crimpable Hook Plier	T00130	1 each
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Schweickhardt Crimpable Hook Plier	i00129	1 each
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adhesives



Mountain sunset above flowing stream in the San Juan range of the Colorado Rocky Mountains.

Notes, Quotes and Anecdotes

Quotes by Benjamin Franklin

"Whatever is begun in anger, ends in shame."

"Hide not your talents, they for use were made.
What's a sun-dial in the shade?"

"You may delay, but time will not."

"Wish not so much to live long, as to live well."

"A man wrapped up in himself makes a very
small bundle."

"Some people die at twenty-five, but aren't buried
until they are seventy-five."

"What is news is never news."

"He that lives on hope will die fasting."

"Dilligence is the mother of good luck."

"Reputation and reputation are easily cracked, and
never mended well."

adhesives

MONOLOK™ 2 ONE-STEP PRIMER ACTIVATED
AND LIGHT ACTIVATED BONDING SYSTEMS

MonoLok™ 2 One-Step Primer Activated System

- Direct application—saves time
- Less waste—precise dispensing
- For metal or plastic brackets
- Two year shelf-life at room temperature from manufacture date
- 45 seconds for bracket adjustment
- Sets in five minutes for arch wire placement

Order Number Package Contains

MonoLok™ 2 Primer Activated Bonding System (Capsules)



Kit includes:

	K00090	1 Kit
0.35 gm Primer Activated Adhesive in Capsules	J03241	40 (14gm)
13 ml Primer	J03238	1
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
2.5" Long Brush Tips	J03231	50
Paste Applicators	J03207	50

MonoLok™ 2 Primer Activated Bonding System (Syringe)



Kit Includes:

	K00091	with etchant
	K00191	w/o etchant
3.5 gm Primer Activated Adhesive in Push Syringes	J03234	4 (14gm)
13 ml Primer	J03238	1
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
2.5" Long Brush Tips	J03231	50
Paste Applicators	J03207	50

MonoLok™ 2 Primer Activated Bonding System (Jar)



Kit Includes:

	K00092	1 Kit
14 gm Primer Activated Adhesive in a Jar	J03237	1 (14gm)
13 ml Primer	J03238	1
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
2.5" Long Brush Tips	J03231	50
Paste Applicators	J03207	50

adhesives

MONOLOK™2 ONE-STEP PRIMER ACTIVATED
AND LIGHT ACTIVATED BONDING SYSTEMS

Order Number Package Contains

MonoLok™2 Primer Activated Bonding System (Syringe Mini Kit)

K00096 (w/etchant)	1 Kit
K00098 (w/o etchant)	1 Kit



Mini Kit includes:

3.5 gm Primer Activated Adhesive in Push Syringe	1 (3.5gm)
3 ml Primer	1
3 ml Etchant (K00096 only)	1
Mixing Pad	1
2.5" Long Brush Tips	20

MonoLok™2 Light Activated Bonding System

- No bracket drift
- No stringing or sticking
- Visible light cure adhesive
- No mixing, no waste
- Immediate arch wire placement
- Multiple bracket placement

MonoLok™2 Light Activated Bonding System (Capsule)

K00093	1 Kit
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Kit Includes:

0.35 gm Light Activated Adhesive in Capsules	J03236	40 (14gm)
7 ml Sealant Resin	J03233	1
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
2.5" Long Brush Tips	J03231	50



adhesives

MONOLOK™2 ONE-STEP PRIMER ACTIVATED
AND LIGHT ACTIVATED BONDING SYSTEMS

Order Number Package Contains

MonoLok™2 Light Activated Bonding System (Syringe)

K00094	with etchant
K00194	w/o etchant



Kit Includes:

3.5 gm Light Activated Adhesive in Push Syringes	J03235	4 (14gm)
7 ml Sealant Resin	J03233	1
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
2.5" Long Brush Tips	J03231	50

MonoLok™2 Light Activated Bonding System (Syringe Mini Kit)

K00097 (w/etchant)	1 Kit
K00099 (w/o etchant)	1 Kit



Mini Kit includes:

3.5 gm Light Activated Adhesive in Push Syringe	1 (3.5gm)
3 ml Sealant Resin	1
3 ml Etchant (K00097 only)	1
Mixing Pad	1
2.5" Long Brush Tips	20

For RMBond™ Indirect Bonding System refer to SWLF® section.

Etching Gel System

- Uniform etching of the tooth
- Rinses off readily, non-staining
- Green color ensures precise placement
- Disposable tips provide more protection against cross-contamination



Etching Gel System

Kit Includes:

- 12 gm Etchant Gel in a Syringe
- Replacement Tips

Order Number Package Contains

K00095 1 Kit

J03245 1
10

Refills

Order Number Package Contains

Primer Activated Bonding System

0.35 gm Primer Activated Adhesive in Capsules	J03241	40 (14 gm)
3.5 gm Primer Activated Adhesive in a Push Syringe	J03234	4 (14 gm)
14 gm Primer Activated Adhesive in a Jar	J03237	1 (14 gm)
13 ml Primer	J03238	1

Light Activated Bonding System

0.35 gm Light Activated Adhesive in Capsules	J03236	40 (14 gm)
3.5 gm Light Activated Adhesive in a Push Syringe	J03235	4 (14 gm)
7 ml Sealant Resin	J03233	1

All Bonding Systems

MonoLok™ Dispensing Syringe for Capsules	J03212	1
Paste Applicators	J03207	50
4.5" Spatulas	J03230	25
2.5" Long Brush Tips	J03231	50
7 ml Etchant	J03239	1
Mixing Pad	J03240	1
Etchant Gel Replacement Tips	J03242	25
12 gm Etchant Gel	J03245	1



wire



San Juan Mountain waterfall.

Notes, Quotes and Anecdotes

There are two kinds of statistics—the kind you look up
and the kind you make up. —Res Stout (1886-1955)

The truth of a theory is in your mind, not in your eyes.
—Albert Einstein (1879-1955)

I was gratified to be able to answer promptly and
to find that I did not know. —Herb Carnegie

It is as cheap to guess wrongly as expensive to
guess right. —Chinese proverb

The flame of a candle glows like a lamp
because it has no base for illumination.
—Afred Sowers Housman (1867-1936)

It is not more than three weeks to prepare a
good dinner and a lifetime
—Mark Twain/Samuel Clemens (1835-1910)

If you want to be happy for an hour—take a nap.
If you want to be happy for a day—go fishing. If you
want to be happy for a year—get married. If you want
to be happy for a lifetime—help someone else.
—Chinese Proverb

Elgiloy®

Elgiloy® wire is a premium, specially-fabricated wire in four tempers. Each Elgiloy wire type has separate characteristics. Wire forms made from Elgiloy can be heat-treated, depending on the desired application. Elgiloy wire's toughness and flexibility are easily discernible with use.

Elgiloy wire is superior, as furnished, for forming, and in performance time during treatment. All tempers have the unique capability of beginning as a "softer" easily handled wire. Because Elgiloy wire can be used as is or heat-treated, it provides flexibility and control in force applications.

Elgiloy Development

RMO® was selected to develop Elgiloy for orthodontics because of its leadership in developing new materials for the profession. This "wonder metal", developed by the Elgin National Company as the "Heart That Never Breaks" in modern precision time pieces, is not a stainless steel. It is a patented cobalt-base alloy compounded of eight materials (cobalt 40%; chromium 20%; nickel 15%; molybdenum 7%; manganese 2%; beryllium .04%; carbon .15%; and iron 15.81%).

Elgiloy Offers Orthodontists Particular Advantages

- Superior physical properties
- Longer functioning as a resilient spring wire without distortion or fatigue
- Easy soldering without annealing
- Easy heat-treating to increase physical properties
- Simple electrolyte polishing

Maximum properties are not necessarily best for all orthodontic purposes. Full spring qualities are excellent for small diameter arch wires and coil springs, but larger wires of full spring temper are impossible to handle. It follows that the best qualities for a particular alloy form vary according to the work to be done to the material and the final usage. Recognizing this, RMO developed a series of different types of Elgiloy wires—each fabricated for specific applications and each identified by a color marking on the end. With a wide range of carefully engineered wire types, orthodontists can take full advantage of Elgiloy's superiority and versatility, whatever their techniques.

Elgiloy Wire Properties

- **Set resistance** – Retains power longer than stainless steel
- **Fatigue resistance** – More cycles than stainless steel without breakage
- **Greater spring efficiency** – Up to 20% more power than spring steel without an increase in dimensions
- **Corrosion resistance** – Outperforms chrome stainless steel by 17%
- **Non-magnetic** – Non-magnetic through all temperature ranges

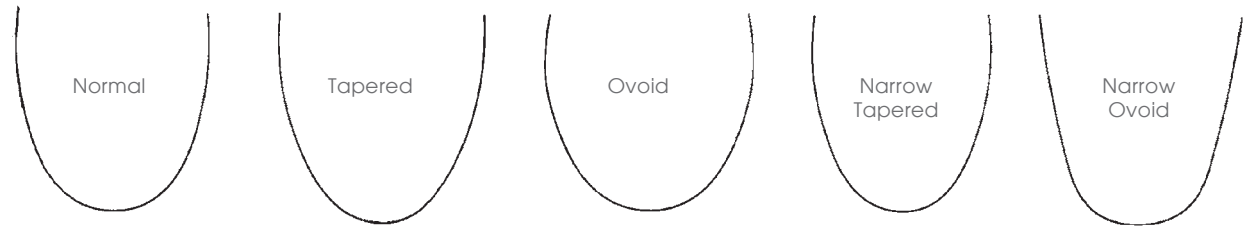
How to Use Elgiloy

- **Blue – Blue Elgiloy** is initially the softest of the tempers. It can be welded with low heat, and soldered without embrittling. Blue Elgiloy is recommended when the wire to be used is over .020" (0.508mm) or when the wire requires considerable bending, welding or soldering. Excellent for edgewise arches, lingual arches, retainers and removables.
- **Yellow – Yellow Elgiloy** is initially ductile and slightly harder than Blue. Using caution, you can spot-weld and solder to large Yellow Elgiloy wires, .021" x .025"; .030"; .036" (0.533mm x 0.635mm; 0.762mm; 0.914mm), without embrittling them. Some practitioners use Yellow as furnished, but it can be heat-treated if greater resiliency or spring performance is required. After heat-treating, Yellow can be adjusted slightly, but should not be adjusted sharply. It is excellent for flat wire techniques. Yellow Elgiloy is recommended where greater spring qualities are needed than those provided by Blue Elgiloy.
- **Green – Green Elgiloy** is initially semi-resilient and will temper comparable to high spring-tempered steel wires. It can be shaped easily with the fingers and can be plier-manipulated before heat-treating.
- **Red – Red Elgiloy** is initially "hard" with exceptionally high spring qualities. It is not recommended for heat-treating. Use where adjustments will not be required after heat-treating.

Penta-Morphic® Arches (Ricketts®)

- Developed by Dr. Robert Ricketts
- Finishing arches for post-treatment provide long-term stability
- Five arch forms: normal, tapered, ovoid, narrow tapered, narrow ovoid
- Tooth size, facial type, and other morphological considerations have been built into the five forms
- Distal length for individualized bends or continuation to second molar
- Maxillary or mandibular
- Yellow Elgiloy Penta-Morphic arches are heat-treated to maintain form and resiliency
- Yellow Elgiloy (heat-treated)

	RECTANGULAR .016" x .022" (0.406mm x 0.559mm)	RECTANGULAR .017" x .025" (0.432mm x 0.635mm)	RECTANGULAR .018" x .025" (0.457mm x 0.635mm)	RECTANGULAR .019" x .025" (0.483mm x 0.635mm)	SQUARE .016" x .016" (0.406mm x 0.406mm)	SQUARE .017" x .017" (0.432mm X 0.432mm)	Package Contains
Normal	E00551	E01025	E01030	E01040	E01020	E01070	10
Tapered	E00552	E01026	E01031	E01041	E01021	E01071	10
Ovoid	E00553	E01027	E01032	E01042	E01022		
Narrow Tapered	E00554	E01028	E01033	E01043	E01023		
Narrow Ovoid	E00555	E01029	E01034	E01044	E01024		



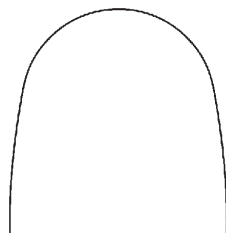
Order Number Package Contains

Penta-Morphic® Arch Selector

8" x 10" Vinylite	i00509	1
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Elgiloy® Prefomed Natural Arches

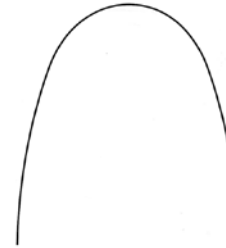
- Maxillary and mandibular arches are distinguished by permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch
- Elgiloy arches are delivered unheat-treated, allowing complex bends and loops to be easily made. After bending, Elgiloy arches can be heat-treated to increase their springiness



Inch	Size (mm)	Blue Elgiloy® (unheat-treated)		Green Elgiloy® (unheat-treated)		Package Contains
		Max.	Man.	Max.	Man.	
ROUND						
.016	(0.406)			A07502	A07522	100
.018	(0.457)			A07503	A07523	100
SQUARE						
.016 x .016	(0.406 x 0.406)	A07505	A07525			10
.019 x .019	(0.483 x 0.483)	A07506	A07526			10
RECTANGULAR						
.016 x .022	(0.406 x 0.559)	A07507	A07527			10
.017 x .025	(0.432 x 0.635)	A07508	A07528			10
.018 x .025	(0.457 x 0.635)	A07509	A07529			10

Elgiloy® Prefomed Ideal Arches

- Maxillary and mandibular arches are distinguished by permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch
- Elgiloy arches are delivered unheat-treated, allowing complex bends and loops to be easily made. After bending, Elgiloy arches can be heat-treated to increase their springiness



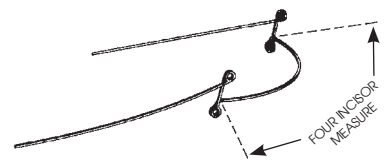
Inch	Size (mm)	Blue Elgiloy® (unheat-treated)		Green Elgiloy® (unheat-treated)		Package Contains
		Max.	Man.	Max.	Man.	
ROUND						
.016	(0.406)			A07552	A07572	100
.018	(0.457)			A07553	A07573	100
SQUARE						
.016 x .016	(0.406 x 0.406)	A07555	A07575			10
.019 x .019	(0.483 x 0.483)	A07556	A07576			10
RECTANGULAR						
.016 x .022	(0.406 x 0.559)	A07557	A07577			10
.017 x .025	(0.432 x 0.635)	A07558	A07578			10
.018 x .025	(0.457 x 0.635)		A07579			10

Elgiloy® Arch Blanks

- Maxillary and mandibular arches are distinguished by permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch
- Elgiloy arch blanks are packaged in their unheat-treated state making complex bends and loops easier. After bending Elgiloy, arches can be heat-treated to increase their springiness
- Blue Elgiloy arches can be welded with low heat and soldered without embrittling
- Yellow Elgiloy arches are slightly harder than blue. Using caution, they can be spot welded and soldered without embrittling



Inch	Size (mm)	Blue Elgiloy® (unheat-treated)		Yellow Elgiloy® (unheat-treated)		Green Elgiloy® (unheat-treated)		Package Contains
		Max.	Man.	Max.	Man.	Max.	Man.	
ROUND								
.016	(0.406)					A00861	A00866	100
SQUARE								
.016 x .016	(0.406 x 0.406)	A00917	A00922	A00907	A00912			10
RECTANGULAR								
.016 x .022	(0.406 x 0.559)	A00888	A00897	A00870	A00879			10
.017 x .025	(0.432 x 0.635)	A00890	A00899	A00872				10
.018 x .025	(0.457 x 0.635)	A00892	A00901					10
.019 x .026	(0.483 x 0.660)	A00893	A00902					10



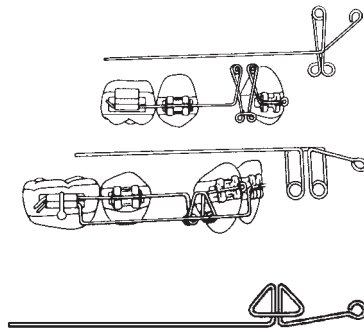
Maxillary Anterior Torquing Retractor (Bench®)

- Blue Elgiloy® .016" x .016" (0.406mm x 0.406mm), unheat-treated

Size	Incisor Measurement (mm)	Order Number	Package Contains
0	(30.0mm)	E00148	5
.5	(32.0mm)	E00149	5
1	(35.0mm)	E00150	5
2	(40.0mm)	E00151	5
3	(45.0mm)	E00152	5

Bioprogressive® Auxiliaries (Ricketts®)

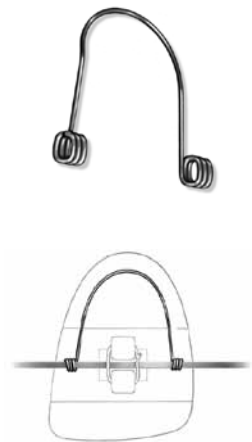
- Blue Elgiloy® .016" x .016" (0.406mm x 0.406mm), unheat-treated



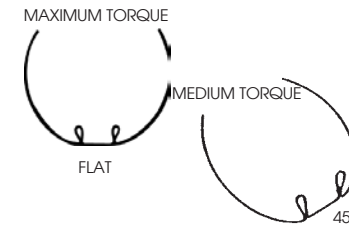
	Position	Order Number	Package Contains
Maxillary Cuspid Retractor	Right	A00520	4
	Left	A00521	4
Mandibular Cuspid Retractor	Right	A00519	4
	Left	A00518	4
Double Delta Sectionals • Cuspid Retractor for closing small spaces	Mandibular Left	E00815	3
	Mandibular Right	E00816	3
	Maxillary Left	E00817	3
	Maxillary Right	E00818	3

Anterior Torquing Spring (Warren)

- Applies continuous torquing action to individual anterior teeth
- Spring slips on arch wire straddling the bracket on the anterior tooth to be moved
- Placement of the arch wire in the bracket activates the spring, providing single contact with the tooth surface
- Each size is designed for a specific wire dimension and will not grip other dimensional wire sizes or round wire
- Green Elgiloy® heat-treated



Inch	Spring Size (mm)	For Arch Wire Size (mm)	Order Number	Package Contains
.010	(0.254)	.010 x .028 (0.254 x 0.711)	A00465	10
.011	(0.279)	.016 x .022 (0.406 x 0.559)	A00466	10
.011	(0.279)	.018 x .025 (0.457 x 0.635)	A00474	10
.011	(0.279)	.019 x .026 (0.483 x 0.660)	A00467	10



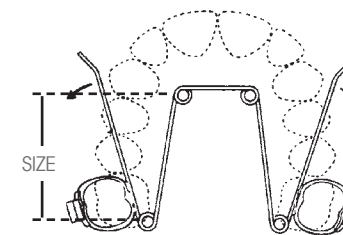
Light Wire Torquing Arch (Von Der Heydt)

- Inserted in the central light wire brackets and secures with pins
- Activated by tying distal ends to the arch wire with ligating wire
- Heat-treated Red Elgiloy® .014" (0.356 mm)
- Do not make bends in wire

	Order Number	Package Contains
For maximum torque	F00133	4
45° for medium torque	F00134	4

Maxillary Quad Helix (Ricketts®)

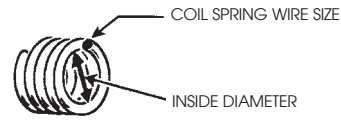
- Continuous controlled force application, solder to bands
- For rotation or stabilization of molars, for expansion, or for contraction of the arch
- .038" (0.965mm) Blue Elgiloy® unheat-treated



	Order Number	Package Contains
1 - 14mm	A00510	3
2 - 18mm	A00511	3
3 - 24mm	A00512	3
4 - 28mm	A00513	3
5 - 37mm	A00514	3
Assortment, one of each size	K00690	5

Coil Springs - Unheat-treated

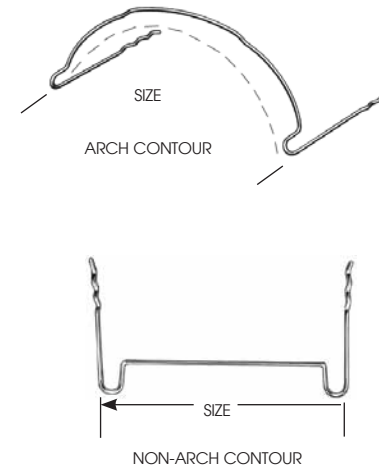
- Super resilient
- Extremely durable
- Precision wound
- Red Elgiloy®



Coil Spring Wire Size		Inside Diameter Accepts Arch Wire Size (mm)	Open Coil Spring	Closed Coil Spring	Package Contains
.007"	x	.028"	(0.178 x 0.711)	F00096	2' (60cm)
.007"	x	.030"	(0.178 x 0.762)	F00098	2' (60cm)
.008"	x	.022"	(0.203 x 0.559)	F00022	2' (60cm)
.008"	x	.025"	(0.203 x 0.635)	F00024	2' (60cm)
.008"	x	.028"	(0.203 x 0.711)	F00026	2' (60cm)
.008"	x	.030"	(0.203 x 0.762)	F00028	F00029 2' (60cm)
.008"	x	.032"	(0.203 x 0.813)	F00030	2' (60cm)
.008"	x	.036"	(0.203 x 0.914)	F00032	F00033 2' (60cm)
.009"	x	.028"	(0.229 x 0.711)	F00042	2' (60cm)
.009"	x	.030"	(0.229 x 0.762)	F00044	F00045 2' (60cm)
.009"	x	.032"	(0.229 x 0.813)	F00046	F00047 2' (60cm)
.009"	x	.036"	(0.229 x 0.914)	F00048	2' (60cm)
.009"	x	.040"	(0.229 x 1.016)	F00050	2' (60cm)
.010"	x	.028"	(0.254 x 0.711)	F00058	2' (60cm)
.010"	x	.030"	(0.254 x 0.762)	F00060	F00061 2' (60cm)
.010"	x	.032"	(0.254 x 0.813)	F00062	2' (60cm)
.010"	x	.036"	(0.254 x 0.914)	F00064	F00065 2' (60cm)
.010"	x	.040"	(0.254 x 1.016)	F00066	2' (60cm)
.010"	x	.045"	(0.254 x 1.143)	F00080	2' (60cm)

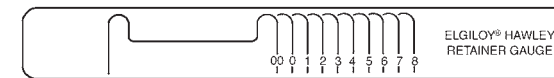
Hawley Labial Retainer Forms - Unheat-treated

- Blue Elgiloy® .030" (0.762mm) - easily contoured
- Can be used as is or heat-treated to greater resiliency
- "Serrated" end sections provide stability in acrylic



Size	Width	Arch Contour (with anterior offset)	Nonarch Contour (for custom fitting)	Package Contains
00	1 3/8" (34.92mm)	E00600	A00238	5
0	1 1/2" (38.10mm)	E00601	A00239	5
1	1 5/8" (41.28mm)	E00602	A00240	5
2	1 3/4" (44.45mm)	E00603	A00241	5
3	1 7/8" (47.62mm)	E00604	A00242	5
4	2" (50.80mm)	E00605	A00243	5
5	2 1/8" (53.98mm)	E00606	A00244	5
6	2 1/4" (57.15mm)	E00607	A00245	5
7	2 3/8" (60.32mm)	E00608	A00273	5
8	2 1/2" (63.50mm)	E00609	A00274	5

Hawley Arch Selector



Order Number	Package Contains
i00513	1



Elgiloy® Wire | Round, 14" (35.56cm) Lengths

Inch	Size (mm)	Red (Resilient)	Green (Semi-resilient)	Yellow (Ductile)	Blue (Soft)	Package Contains
.009	(0.229)	E00209				30
.010	(0.254)	E00210	E00273			30
.011	(0.279)	E00211				30
.014	(0.356)	E00214	E00278			30
.016	(0.406)	E00216	E00280	E00201	E00282	30
.018	(0.457)	E00218	E00281	E00202	E00283	20
.020	(0.508)		E00203	E00284	E00220	20
.022	(0.559)		E00204	E00285	E00222	20
.025	(0.635)			E00205	E00225	10
.028	(0.711)			E00206	E00228	10
.030	(0.762)			E00207	E00230	10
.032	(0.813)			E00276	E00232	10
.036	(0.914)			E00208	E00236	10
.038	(0.965)				E00221	10
.040	(1.016)				E00237	6
.045	(1.143)				E00238	6
.060	(1.524)				E00226	5

Elgiloy® Wire n Square (Square cornered), 14" (35.56cm) Lengths

Inch	Size (mm)	Package Contains
.016 x .016	(0.406 x 0.406)	E00300
.017 x .017	(0.432 x 0.432)	E00301
.019 x .019	(0.483 x 0.483)	E00289

Elgiloy® Wire ■ Square (w/rounded corners), Ricketts®, 14" (35.56cm) Lengths

Inch	Size (mm)	Package Contains
.017 x .017	(0.432 x 0.432)	E00317

Elgiloy® Wire ■ Rectangular (Square cornered), 14" (35.56cm) Lengths

Inch	Size (mm)	Package Contains
.016 x .018	(0.406 x 0.457)	E00258
.016 x .020	(0.406 x 0.508)	E00296
.016 x .022	(0.406 x 0.559)	E00302
.017 x .022	(0.432 x 0.559)	E00303
.017 x .025	(0.432 x 0.635)	E00308
.018 x .022	(0.457 x 0.559)	E00286
.018 x .025	(0.457 x 0.635)	E00293
.019 x .025	(0.483 x 0.635)	E00259
.019 x .026	(0.483 x 0.660)	E00292
.021 x .025	(0.533 x 0.635)	E00287
.0215 x .028	(0.546 x 0.711)	E00288

Elgiloy® Wire ■ Flat Ribbon Arch, 14" (35.56cm) Lengths

Inch	Size (mm)	Package Contains
.010 x .020	(0.254 x 0.508)	E00260

Elgiloy® Wire | Round Retainer Clasp, 14" (35.56cm) Lengths

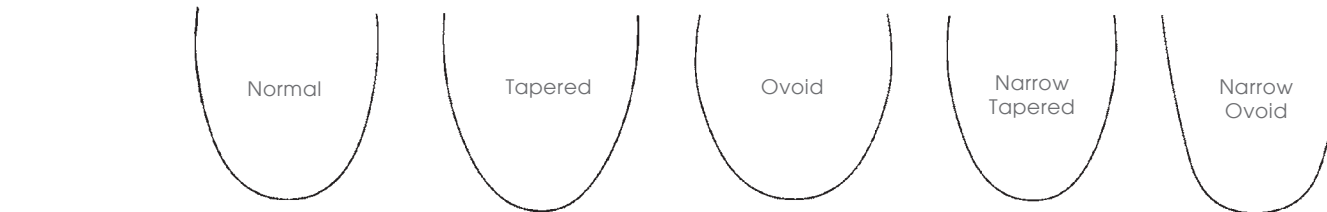
Inch	Size (mm)	Package Contains
.030	(0.762)	E00230
.032	(0.813)	E00232
.036	(0.914)	E00236
.038	(0.965)	E00221
.040	(1.016)	E00237
.045	(1.143)	E00238
.060	(1.524)	E00226

Recommended when the wire to be used is .030 or larger and when considerable bending or soldering is required.

Penta-Morphic® Arches (Ricketts®)

- Finishing arches for post-treatment provide long-term stability
- Five arch forms: normal, tapered, ovoid, narrow tapered, narrow ovoid
- Tooth size, facial type, and other morphological considerations have been built into the five forms
- Distal length for individualized bends or continuation to second molar
- Maxillary or mandibular
- Bio-Lastic™ (nickel-titanium) "dimpled" midline

	SQUARE .016" x .016" (0.406mm x 0.406mm)	RECTANGULAR .016" x .022" (0.406mm x 0.559mm)	RECTANGULAR .017" x .025" (0.432mm x 0.635mm)	ROUND .014" (0.356mm)	ROUND .016" (0.406mm)	ROUND .018" (0.457mm)	Package Contains
Normal	E01520	E01530	E01535	E01500	E01505	E01510	10
Ovoid	E01521	E01531	E01536	E01501	E01506	E01511	10
Narrow Tapered	E01552	E01532	E01537	E01502	E01507	E01512	10
Tapered	E01523	E01533	E01538	E01503	E01508	E01513	10
Narrow Ovoid	E01524	E01534	E01539	E01504	E01509	E01514	10



Order Number Package Contains

Penta-Morphic® Arch Selector

8" x 10" Vinylite	i00509	1
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Orthonal® Reverse Vector Arches

- Increases efficiency in closing anterior open bites and correcting excessive overbites
- Employs curve of spee to eliminate the need for step downs, step ups and other varieties of activating loops to correct overbites
- Leveling by extrusion (relative intrusion) can now be accomplished by one continuous reverse vector
- Minimizes molar rotation
- Controls incisor torque
- Etched midline mark

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.016	(0.406)	A07051	A07071	10
.018	(0.457)	A07052	A07072	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07054	A07074	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07055	A07075	10
.017 x .025	(0.432 x 0.635)	A07056	A07076	10
.019 x .025	(0.483 x 0.635)	A07059	A07079	10

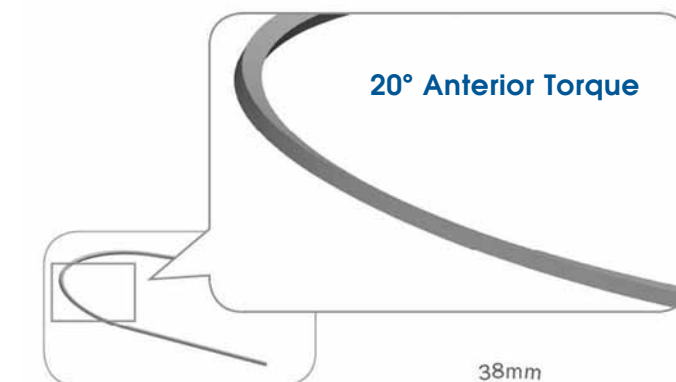
Orthonal® Superelastic Nickel-Titanium

Pre-Torqued Preformed Natural Arches

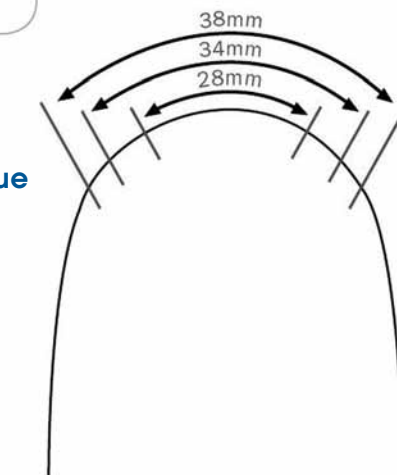


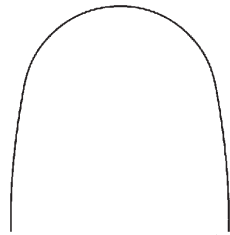
- Provides the addition of torque into the anterior region while maintaining non-torque in the posterior region.
- Nickel-titanium alloys are shape memory alloys
- Provides 20° anterior torque. Three anterior torque lengths available: 28, 34 and 38mm.
- Labial or lingual torque forces available by flipping wire orientation

Inch	Size (mm)	Maxillary 34mm	Maxillary 38mm	Mandibular 28mm	Package Contains
.016 x .022	(0.406 x 0.559)	A07803	A07806	A07800	10
.017 x .025	(0.432 x 0.635)	A07804	A07807	A07801	10
.019 x .025	(0.483 x 0.635)	A07805	A07808	A07802	10



Anterior Torque Lengths

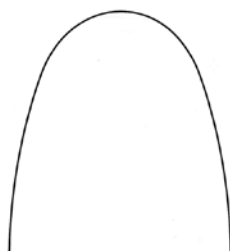




Orthonol® Superelastic Nickel-Titanium Preformed Natural Arches and Straight Lengths

- Nickel-titanium alloys are shape memory alloys
- Orthonol is superelastic nickel-titanium in preformed natural arch shapes
- Provides an ideal continuous gentle force at a constant, uninterrupted force level for tooth movement
- Reduces chair time by extending time between visits
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.012	(0.305)		A07031	10
.014	(0.356)	A07000	A07020	10
.016	(0.406)	A07001	A07021	10
.018	(0.457)	A07002	A07022	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07004	A07024	10
.018 x .018	(0.457 x 0.457)	A07007	A07027	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07005	A07025	10
.017 x .025	(0.432 x 0.635)	A07006	A07026	10
.018 x .025	(0.457 x 0.635)	A07008	A07028	10
.019 x .025	(0.483 x 0.635)	A07009	A07029	10
.021 x .025	(0.533 x 0.635)	A07010	A07030	10
STRAIGHT LENGTHS 7" (17.8cm)				
.016 x .022	(0.406 x 0.559)		E01100	10



Orthonol® Superelastic Nickel-Titanium Preformed Ideal Arches

- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch
- Provides an ideal, continuous, gentle force which remains constant during tooth movement

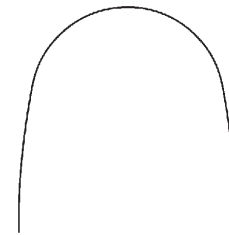
Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.012	(0.305)	A07400	A07420	10
.014	(0.356)	A07401	A07421	10
.016	(0.406)	A07402	A07422	10
.018	(0.457)	A07403	A07423	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07405	A07425	10
.018 x .018	(0.457 x 0.457)	A07406	A07426	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07407	A07427	10
.017 x .025	(0.432 x 0.635)	A07408	A07428	10
.018 x .025	(0.457 x 0.635)	A07409	A07429	10
.019 x .025	(0.483 x 0.635)	A07410	A07430	10

Thermaloy® Plus

- Some thermal properties at room temperature; superelastic in the mouth
- For clinicians who want a higher force in a small round wire than a true thermal activated wire
- Forces intermediate between Thermaloy® and Orthonol®
- Forces delivered to teeth that compare to other intermediate force brands
- Easier insertion than a superelastic wire
- Convenient single wire packaging; ten wires to a box
- Packaging is sterilizable
- Permanent midline etchmarks: Three lines for maxillary arch, one line for mandibular arch

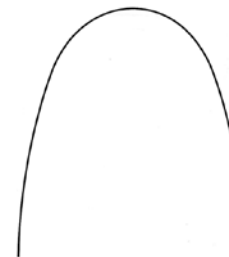
PREFORMED NATURAL ARCHES

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	A07700	A07720	10
.014	(0.356)	A07701	A07721	10
.015	(0.381)	A07702	A07722	10
.016	(0.406)	A07703	A07723	10
.018	(0.457)	A07704	A07724	10
.020	(0.508)	A07710	A07730	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07705	A07725	10
.020 x .020	(0.508 x 0.508)	A07712	A07732	10
RECTANGULAR				
.014 x .025	(0.356 x 0.635)	A07711		10
.016 x .022	(0.406 x 0.559)	A07706	A07726	10
.017 x .025	(0.432 x 0.635)	A07707	A07727	10
.018 x .025	(0.457 x 0.635)	A07708	A07728	10
.019 x .025	(0.483 x 0.635)	A07709	A07729	10



PREFORMED IDEAL ARCHES

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	A07740	A07760	10
.014	(0.356)	A07741	A07761	10
.015	(0.381)	A07742	A07762	10
.016	(0.406)	A07743	A07763	10
.018	(0.457)	A07744	A07764	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07745	A07765	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07746	A07766	10
.017 x .025	(0.432 x 0.635)	A07747	A07767	10
.018 x .025	(0.457 x 0.635)	A07748		10
.019 x .025	(0.483 x 0.635)	A07749		10



Thermaloy® (Thermal Activated Nickel-Titanium) Preformed Natural and Ideal Arches

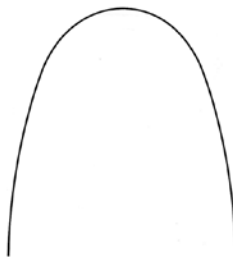
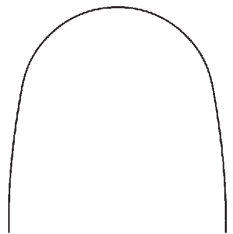
- Pliable at room temperature and superelastic at body temperature
- Same elastic working range as superelastic with lower forces
- Can be used earlier in treatment to provide tongue control
- Can be used as an initial arch wire for treatment
- Easier to ligate in severely maligned cases and impacted canines
- Increases patient comfort
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch

PREFORMED NATURAL ARCHES

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	A07310	A07330	10
.014	(0.356)	A07300	A07320	10
.015	(0.381)	A07311	A07331	10
.016	(0.406)	A07301	A07321	10
.017	(0.432)	A07312	A07332	10
.018	(0.457)	A07302	A07322	10
SQUARE				
.016 x .016	(0.406 x .0406)	A07303	A07323	10
RECTANGULAR				
.014 x .025	(0.356 x 0.635)	A07314	A07334	10
.016 x .022	(0.406 x 0.559)	A07304	A07324	10
.017 x .025	(0.432 x 0.635)	A07305	A07325	10
.018 x .025	(0.457 x 0.635)	A07306	A07326	10
.019 x .025	(0.483 x 0.635)	A07307	A07327	10
.021 x .025	(0.533 x 0.635)	A07308	A07328	10

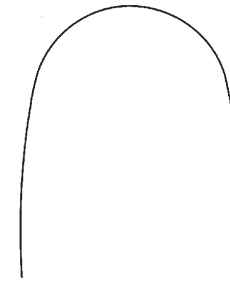
PREFORMED IDEAL ARCHES

Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.013	(0.330)	A07360	A07380	10
.014	(0.356)	A07350	A07370	10
.015	(0.381)	A07361		10
.016	(0.406)	A07351	A07371	10
.018	(0.457)	A07352	A07372	10
SQUARE				
.016 x .016	(0.406 x .0406)	A07353	A07373	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07354	A07374	10
.017 x .025	(0.432 x 0.635)	A07355	A07375	10
.018 x .025	(0.457 x 0.635)	A07356	A07376	10
.019 x .025	(0.483 x 0.635)	A07357	A07377	10



Bendaloy® Titanium - Molybdenum-Based Alloy Preformed Natural Arches

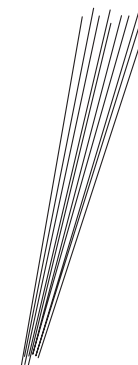
- Large springback with better control over tooth movement
- Minimizes adjustment intervals
- With less stiffness than stainless steel, it allows wires to fill the bracket for control with lighter forces
- Is formable and capable of being formed into complicated configurations without fracture
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch
- **Bendaloy® Round** is ideal for alignment, rotations, retractions and finishing
- **Bendaloy® Rectangle** is ideal for torquing, rotations, retractions and finishing



Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.016	(0.406)	A07121	A07130	10
.018	(0.457)	A07122	A07131	10
SQUARE				
.016 x .016	(0.406 x 0.406)	A07124	A07133	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07125	A07134	10
.017 x .025	(0.432 x 0.635)	A07126	A07135	10
.019 x .025	(0.483 x 0.635)	A07128	A07137	10
.021 x .025	(0.533 x 0.635)	A07129	A07138	10

Bendaloy® Titanium - Molybdenum-Based Alloy, Straight Lengths, 14" (35.56cm)

- High springback and more resilient than stainless steel
- Low stiffness which produces light, continuous forces
- High formability which allows extensive bending and wire forming without fracture
- Springback of this wire makes it excellent for sectional arches, auxiliaries and detailing arch wires
- **Bendaloy® Straight Lengths** are ideal for alignment, rotations, retractions and finishing
- **Bendaloy® Rectangular/Square Lengths** are ideal for torquing, rotations, retractions and finishing



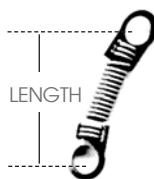
Inch	Size (mm)	Order Number	Package Contains
ROUND			
.016	(0.406)	E00620	10
.018	(0.457)	E00621	10
SQUARE			
.016 x .016	(0.406 x 0.406)	E00622	10
RECTANGULAR			
.016 x .022	(0.406 x 0.559)	E00623	10
.017 x .025	(0.432 x 0.635)	E00624	10
ROUND LAB WIRE			
.032	(0.813)	E00626	10
.036	(0.914)	E00627	10



Compression Springs (Open Coil)

- Cost effective alternative to maintaining a large office inventory of sizes of variable (adjustable) force coil springs cut to desired length

Coil Spring Wire Size (inch)	Inside Diameter (inch)	(mm)	Length	Order Number	Package Contains
.010 x	.030	(0.254 x 0.762)	7" (17.8mm)	F00300	3 (53cm)
.012 x	.030	(0.305 x 0.762)	7" (17.8mm)	F00301	3 (53cm)
.012 x	.045	(0.305 x 1.143)	7" (17.8mm)	F00302	3 (53cm)



Extension Springs (Closed Coil)

- Stainless steel eyelets are attached to each end of the spring to easily engage hooks
- Variable (adjustable) coil spring

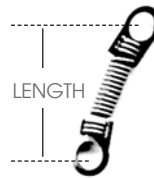
Coil Spring Wire Size (inch)	Inside Diameter (inch)	(mm)	Length (mm)	Order Number	Package Contains
.010 x	.030	(0.254 x 0.762)	9mm	F00320	10
.010 x	.030	(0.254 x 0.762)	12mm	F00321	10
.011 x	.030	(0.279 x 0.762)	9mm	F00322	10
.011 x	.030	(0.279 x 0.762)	12mm	F00323	10
.012 x	.030	(0.305 x 0.762)	9mm	F00324	10
.012 x	.030	(0.305 x 0.762)	12mm	F00325	10



Distalizing Spring (Stop Wound Coil)

- Distalizes molars without use of headgear
- Slides easily over any arch wire
- Fit to any desired length; cuts to length
- Activate by compressing spring, with the use of an RMO® lock

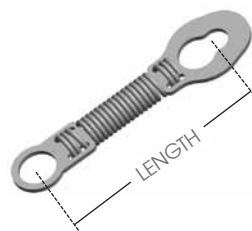
Coil Spring Wire Size (inch)	Inside Diameter (inch)	(mm)	Length (inch/mm)	Order Number	Package Contains
.010" x	.045"	(0.254 x 1.143)	7" (17.8cm)	F00340	3



TAD Extension Springs with Large Eyelets (Closed Coil)

- Stainless steel eyelets are attached to each end of the NiTi coil spring
- Larger eyelets have been specifically designed to fit directly onto the Button Top Mini Implant

Coil Spring Wire Size (inch)	Inside Diameter (inch)	(mm)	Length (inch/mm)	Order Number	Package Contains
.010 x	.030	(0.254 x 0.762)	7mm	G00304	10
.010 x	.030	(0.254 x 0.762)	9mm	G00301	10
.010 x	.030	(0.254 x 0.762)	12mm	G00302	10
.010 x	.030	(0.254 x 0.762)	15mm	G00303	10



TAD Coil Springs with Oval End

- Stainless steel eyelet attached to one end and an oval end attached to the other end
- The pear-shaped opening allows for easy insertion over the Button Top TAD
- Wire diameter of .010" and inside coil diameter of .030"
- Variable (adjustable) coil spring

Length	Order Number	Package Contains
8mm	G00305	10
10mm	G00306	10
12mm	G00307	10

TRU-CHROME®

TRU-CHROME® Development

Wire has been basic to orthodontics since its beginning. By serving as holding, anchoring and spring elements, the orthodontist is able to stimulate tooth movement predictably and precisely.

In developing specialty wires for modern orthodontics, several considerations are involved:

- Semantic problem of matching requirements and terminology of orthodontics with engineering terms and tests.
- Selecting the best alloys, tempers, sizes, etc.
- Engineering procedures and quality controls for accuracy and dependability.
- Refinement of time-saving instruments, equipment and handling techniques to assure best results.

In the selection here, you will find the most complete choice of controlled quality wire for all techniques.

The success of chrome alloy stainless steel in orthodontics lies in the keen combination of delicacy and strength. It possesses, to an unusual degree, those three requisites of an orthodontic metal—hardness, elastic limit, and tensile strength.

TRU-CHROME® Stainless Steel Wire

TRU-CHROME stainless steel wire is a stable, consistent, predictable performance wire, offered in four tempers. Quality controls are the tightest of any stainless steel wire in the industry.

Resilient Arch Wire Temper

Resilient arch wire temper is available in preformed arch blanks and is used in some special wire forms, depending on the suitability for the desired usage. Straight lengths are provided for those who prefer forming their own arch wires.

Retainer Wire or No. 2 Temper

Retainer wire or No. 2 temper stainless steel wire has a softer temper than arch wire temper, which enables the operator to more easily form the wire into retainer appliances. Forming the wire work-hardens it and provides a working resiliency for retainer appliances.

Clasp Wire Temper

Clasp wire is a stainless steel wire between the resilient arch wire temper and the retainer wire temper. It is soft enough to be instrument-formed to the clasp configuration and, in forming, gains sufficient hardening from pliering to have a satisfactory spring resiliency for clasps.

Ligature Wire Temper

Ligature Wire is a stainless steel wire of "dead-soft" temper that allows ligating and tying to be done with minimal work-hardening of the wire.

Stainless Steel Wire Properties

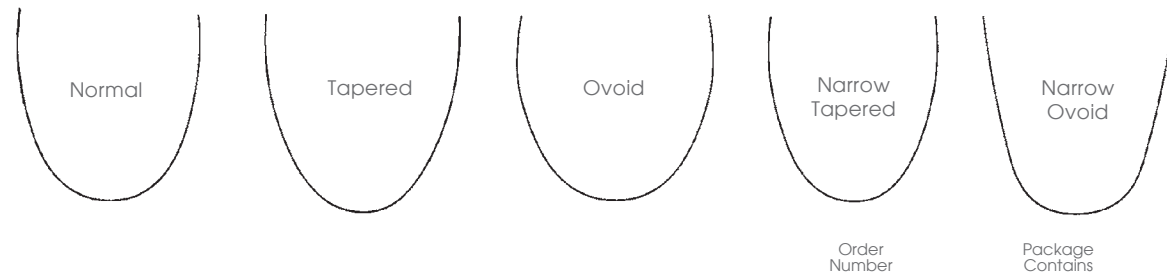
Composition of TRU-CHROME®

	Type 302	Type 304
Carbon	0.08-0.20	0.08 max
Manganese	2.00 max	2.00 max
Silicon	1.00 max	1.00 max
Phosphorus	0.040 max	0.040 max
Sulphur	0.030 max	0.030 max
Chromium	17-19	18-30
Nickel	8-10	8-10
Iron	Balance	Balance

Penta-Morphic® Arches (Ricketts®)

- Developed by Dr. Robert Ricketts
- Finishing arches for post-treatment provide long-term stability
- Five arch forms: normal, tapered, ovoid, narrow tapered, narrow ovoid
- Tooth size, facial type, and other morphological considerations have been built into the five forms
- Distal length for individualized bends or continuation to second molar
- Maxillary or mandibular
- TRU-CHROME® stainless steel

	RECTANGULAR 0.16" x .022" (0.406 x 0.559mm)	RECTANGULAR 0.17" x .025" (0.432 x 0.635mm)	RECTANGULAR 0.18" x .025" (0.457 x 0.635mm)	RECTANGULAR 0.19" x .025" (0.483 x 0.635mm)	SQUARE 0.16" x .016" (0.406 x 0.406mm)	ROUND .014" (0.356mm)	ROUND .016" (0.406mm)	ROUND .018" (0.457mm)	ROUND .020" (0.508mm)	Package Contains
Normal	E00651	E00661	E01035	E01045	E01000	E01005	E01010	E01015	E01060	10
Tapered	E00652	E00662	E01036	E01046	E01001	E01006	E01011	E01016	E01061	10
Ovoid	E00653	E00663	E01037	E01047	E01002	E01007	E01012	E01017	E01062	10
Narrow Tapered	E00654	E00664	E01038	E01048	E01003	E01008	E01013	E01018	E01063	10
Narrow Ovoid	E00655	E00665	E01039	E01049	E01004	E01014	E01019	E01064	E01064	10

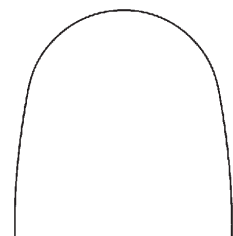


Penta-Morphic® Arch Selector

8" x 10" Vinylite i00509 1

TRU-CHROME® Stainless Steel Preformed Natural Arches

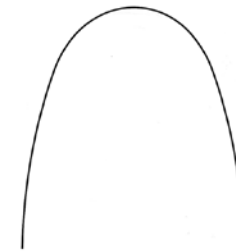
- TRU-CHROME preformed natural arches can be easily soldered, stress relieved, and spot welded
- Permanent midline etchmarks: Three lines for a maxillary arch, one line for a mandibular arch



Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.014	(0.356)	A07201	A07221	100
.016	(0.406)	A07202	A07222	100
.018	(0.457)	A07203	A07223	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A07205	A07225	10
.018 x .018	(0.457 x 0.457)	A07206	A07226	10
.019 x .019	(0.483 x 0.483)	A07212	A07232	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07207	A07227	10
.017 x .025	(0.432 x 0.635)	A07208	A07228	10
.018 x .025	(0.457 x 0.635)	A07209	A07229	10
.019 x .025	(0.483 x 0.635)	A07210	A07230	10
.021 x .025	(0.533 x 0.635)	A07211	A07231	10

TRU-CHROME® Stainless Steel Preformed Ideal Arches

- TRU-CHROME preformed Ideal arches can be easily soldered, stress relieved and spot welded
- Permanent midline etchmarks: Three lines for a maxillary arch, and one line for a mandibular arch



Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.014	(0.356)	A07251	A07271	100
.016	(0.406)	A07252	A07272	100
.018	(0.457)	A07253	A07273	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A07255	A07275	10
.018 x .018	(0.457 x 0.457)	A07256	A07276	10
.019 x .019	(0.483 x 0.483)	A07262		10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A07257	A07277	10
.017 x .025	(0.432 x 0.635)	A07258	A07278	10
.018 x .025	(0.457 x 0.635)	A07259	A07279	10
.019 x .025	(0.483 x 0.635)	A07260	A07280	10
.021 x .025	(0.533 x 0.635)	A07261	A07281	10

TRU-CHROME® Stainless Steel Anterior Arch Blanks

- All arch blanks are anterior contour (3 x 3) with midline etchmarks: Three lines for a maxillary arch, and one line for a mandibular arch
- TRU-CHROME stainless steel arch blanks can be easily soldered, stress relieved and spot welded



Inch	Size (mm)	Maxillary	Mandibular	Package Contains
ROUND				
.016	(0.406)	A00781	A00786	100
.018	(0.457)	A00782	A00787	100
.020	(0.508)	A00783	A00788	100
SQUARE				
.016 x .016	(0.406 x 0.406)	A00819	A00824	10
RECTANGULAR				
.016 x .022	(0.406 x 0.559)	A00798	A00808	10
.017 x .025	(0.432 x 0.635)	A00800	A00810	10
.018 x .022	(0.457 x 0.559)	A00801	A00811	10
.018 x .025	(0.457 x 0.635)	A00802	A00812	10
.019 x .026	(0.483 x 0.660)	A00803	A00813	10

Maxillary Anterior Torquing Arch (Debnam)



	.018" (0.457mm)	.020" (0.508mm)	Package Contains
TRU-CHROME® Stainless Steel	E00610	E00611	5



TRU-CHROME® Stainless Steel Wire | Round, 14" (35.56cm) Lengths

Size Inch	(mm)	Resilient Wire	Package Contains
.010	(0.254)	E00003	30
.011	(0.279)	E00004	30
.012	(0.305)	E00005	30
.014	(0.356)	E00007	30
.016	(0.406)	E00009	30
.018	(0.457)	E00010	20
.020	(0.508)	E00011	20
.022	(0.559)	E00013	20
.024	(0.610)	E00014	20
.025	(0.635)	E00015	10
.028	(0.711)	E00016	10
.030	(0.762)	E00017	10
.032	(0.813)	E00018	10
.036	(0.914)	E00019	10
.040	(1.016)	E00020	6
.045	(1.143)	E00021	6
.050	(1.270)	E00022	5
.060	(1.524)	E00024	5

TRU-CHROME® Stainless Steel Wire n Square (Square cornered), 14" (35.56cm) Lengths

.016 x .016	(0.406 x 0.406)	E00313	10
.017 x .017	(0.432 x 0.432)	E00314	10
.019 x .019	(0.483 x 0.483)	E00092	10

TRU-CHROME® Stainless Steel Wire ■ Rectangular (Square cornered), 14" (35.56cm) Lengths

.016 x .022	(0.406 x 0.559)	E00098	10
.017 x .022	(0.432 x 0.559)	E00099	10
.017 x .025	(0.432 x 0.635)	E00311	10
.018 x .022	(0.457 x 0.559)	E00096	10
.018 x .025	(0.457 x 0.635)	E00097	10
.019 x .026	(0.483 x 0.660)	E00095	10
.021 x .025	(0.533 x 0.635)	E00090	10
.0215 x .028	(0.546 x 0.711)	E00091	10

TRU-CHROME® Stainless Steel Wire ■ Rectangular (Round cornered), 14" (35.56cm) Lengths

.018 x .025	(0.457 x 0.635)	E00103	10
.019 x .026	(0.483 x 0.660)	E00107	10
.021 x .025	(0.533 x 0.635)	E00105	10
.0215 x .028	(0.546 x 0.711)	E00106	10

TRU-CHROME® Stainless Steel Wire ■ Flat Ribbon Arch, 14" (35.56cm) Lengths

.010 x .020	(0.254 x 0.508)	E00110	20
.015 x .028	(0.381 x 0.711)	E00116	20
.015 x .036	(0.381 x 0.914)	E00117	20



TRU-CHROME® Stainless Steel Retainer Wire | Round, 14" (35.56cm) Lengths, No. 2 Temper

- Retainer Wire, No. 2 Temper is softer than arch wire, which enables the operator to more easily form the wire into retainer appliances
- Forming of the wire work-hardens the wire and provides a working resiliency for those types of appliances

Inch	Size (mm)	Order Number	Package Contains
.028	(0.711)	E00080	10
.030	(0.762)	E00081	10
.032	(0.813)	E00082	10
.036	(0.914)	E00083	10
.040	(1.016)	E00084	6

TRU-CHROME® Stainless Steel Retainer Clasp Wire | Round, 12" (30cm) Lengths, Clasp Wire Temper

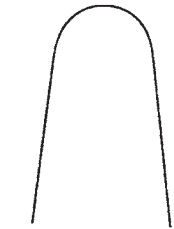
- Clasp Wire Temper is between the resilient arch wire and the retainer wire
- It is soft enough to be instrument formed to the clasp configuration
- Forming gains sufficient hardening for the pliering to have satisfactory spring resiliency for clasp

Inch	Size (mm)	Gauge	Round	Half Round	Package Contains
.028	(0.711)	21	E00065		5
.032	(0.813)	20	E00064		5
.036	(0.914)	19	E00063		5
.040	(1.016)	18	E00062		5
.057	(1.448)	15		E00071	5
.064	(1.626)	14		E00070	5



TRI-FLEX™ Twisted Wire

Tri-Flex (3 strands) is spring-tempered, twisted leveling wire for early treatment stages. It bends readily and can accept great deflection before its limit is reached. It provides gentle force and will not unravel or fray when cut.

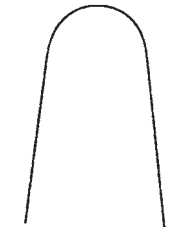


Inch	Size (mm)	Order Number	Package Contains
ROUND (14" (35.56cm) STRAIGHT LENGTHS)			
.0155	(0.394)	E00175	10
.0175	(0.445)	E00176	10
.0195	(0.495)	E00177	10
.0215	(0.546)	E00178	10
ROUND (PREFORMED ARCHES)			
.0155	(0.381)	E00170	10
.0175	(0.445)	E00171	10



SUPRA-FLEX™ Twisted Wire

Supra-Flex (6 strands) is cable-designed, initial stage arch wire with five exterior wires helically-wound around a core wire. It can be flexed to a great degree without taking a set. It delivers constant uniform light force over a long period of time and does not fray when cut.

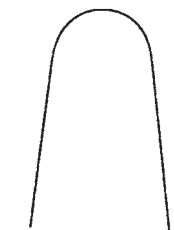


Inch	Size (mm)	Order Number	Package Contains
ROUND (14" (35.56cm) STRAIGHT LENGTHS)			
.0155	(0.394)	E00179	10
.0175	(0.445)	E00180	10
.0195	(0.495)	E00181	10
.0215	(0.546)	E00182	10
ROUND (PREFORMED ARCHES)			
.0155	(0.394)	E00183	10
.0175	(0.445)	E00184	10
ROUND 30' (9.14m) SPOOLS			
.0155	(0.394)	E00187	1
.0175	(0.445)	E00188	1
.0195	(0.495)	E00189	1
.0215	(0.546)	E00190	1

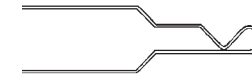


FLEX-VIII™ Braided Wire

Flex-VIII (8 strands) is a braided wire for unscrambling and leveling.



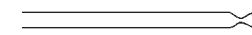
Inch	Size (mm)	Order Number	Package Contains
SQUARE (PREFORMED ARCHES)			
.016 x .016	(0.406 x 0.406)	E01400	10
RECTANGULAR (PREFORMED ARCHES)			
.016 x .022	(0.406 x 0.559)	E01401	10
.017 x .025	(0.432 x 0.635)	E01403	10
.018 x .025	(0.457 x 0.635)	E01404	10
.019 x .025	(0.483 x 0.635)	E01405	10



Preformed Auxiliary Ligature Tie Hooks (Kobayashi type)

- Stainless steel
- Quickly and easily tied in place without removing arch wire
- Spot welded to form hook
- Slipped under tie wing and tied
- Hooks adapt to up/down usage

Inch	Size (mm)	Order Number	Package Contains
.012"	(0.305)	A01202	100
.014"	(0.356)	A01203	100



Preformed Ligature Wire

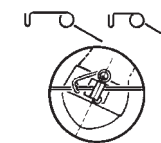
- Stainless steel – dead soft
- Precise convenient shape for quick use

Inch	Size (mm)	Order Number	Package Contains
.008"	(0.203)	E00700	1,000
.009"	(0.229)	E00701	1,000
.010"	(0.254)	E00702	1,000
.011"	(0.279)	E00703	1,000
.012"	(0.305)	E00704	1,000



Ligature Wire, TRU-CHROME® Stainless Steel – Dead soft

1 OZ. (28.4g) SPOOL				1 LB. (.454kg) SPOOL			
Inch	Size (mm)	Order Number	Package Contains	Inch	Size (mm)	Order Number	Package Contains
.007"	(0.178)	E00120	1				
.008"	(0.203)	E00121	1				
.009"	(0.229)	E00122	1	.009"	(0.229)	E00133	1
.010"	(0.254)	E00123	1	.010"	(0.254)	E00134	1
.011"	(0.279)	E00124	1	.011"	(0.279)	E00135	1
.012"	(0.305)	E00125	1	.012"	(0.305)	E00136	1
.014"	(0.356)	E00126	1				
.015"	(0.381)	E00127	1				
.016"	(0.406)	E00128	1				
.018"	(0.457)	E00129	1				
.020"	(0.508)	E00130	1				



Paralleling Spring (von der Heydt)

Stainless steel, high resiliency, light wire technique; for maximum control of root paralleling from anteriors to bicuspsids.

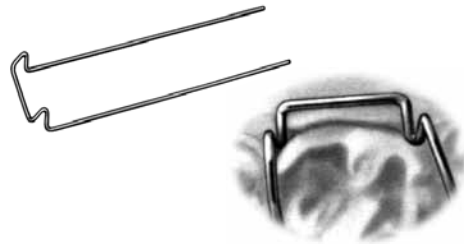
Inch	Size (mm)	Position	Short Arm Length	Package Contains
.014	(0.355)	UR/LL	$\frac{31.5}{51.3}$	A00854 10
.014	(0.355)	UL/LR	$\frac{51.3}{31.5}$	A00855 10

Ball Retainer Clasp, TRU-CHROME® Stainless Steel

Stem Diameter	Ball Diameter	Order Number	Package Contains
.024" (0.610mm)	.044" (1.12mm)	A00290	10
.032" (0.813mm)	.058" (1.47mm)	A00291	10
.040" (1.016mm)	.074" (1.905mm)	A00296	10

Adams Clasp, TRU-CHROME® Stainless Steel

- Preformed modified arrow clasp form
- May be used as is or adapted to contact tooth surface according to Adams' technique
- Manufactured loop set at 20° angle for better interproximal slippage
- Clasps are measured midline of loop to midline of loop



Mesial Distal	Order Number	Package Contains
(6mm)	A00250	10
(7mm)	A00251	10
(8mm)	A00252	10
(9mm)	A00253	10
(10mm)	A00254	10
(11mm)	A00256	10

"J" Clasp - Stainless Steel

- Provides retention below the marginal crest of the tooth



Size	Order Number	Package Contains
.032" (0.813mm)	G00042	10
.040" (1.016mm)	G00050	10
.047" (1.194mm)	G00055	10

Retainer Cases

- Made of high impact polypropylene, prevents breakage
- Easy-open finger holds with durable hinge and positive-click closure
- Built-in keyhole to carry on key chain or backpack
- Ventilation holes that prevent odors
- Standard size holds upper or lower retainers or a positioner
- Lab size holds bionators or special lab appliances



Color	Order Number	Package Contains
Standard Size		
Tropical Pink	J01320	20
Melon	J01321	20
Berry Blue	J01322	20
Metallic Black	J01323	20
Lab Size		
Berry Blue	J01324	12

RM® Lock

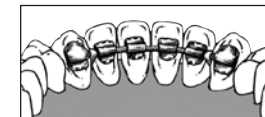
- Stainless steel
- Allows placement in one piece
- For arch wire stop, tying auxiliaries, tiebacks and activating coil springs
- Offset screw assures proper locking action on all shapes of wire
- Available in two sizes



	Order Number	Package Contains
Small Lock - accepts wire .012" to 0.28" (.304mm to 0.711mm)		
Without hook	A00226	5
With hook	A00224	5
Large Lock - accepts wire .030" to .045" (0.762mm to 1.143mm)		
Without hook	A00227	5
Replacement Screw For either Small or Large Lock	A00228	5
Hex Wrench for RM® Lock Stainless steel with hard steel tip	i00034	1

RMO® Bondable Lingual Retainer

- Quicker, far more control, economical, no emergencies, versatile, hygienic



	Order Number	Package Contains
Pad, Mx/Mn Cen/Lat R/L	E00524	50
Pad, Mx/Mn Cus R/L	E00525	50
Pad, Terminal, Cus, Mx L, Mn R	E00526	50
Pad, Terminal, Cus, Mx R, Mn L	E00527	50
Pad, Terminal, 1Bi, Mx L, Mn R	E00528	50
Pad, Terminal, 1Bi, Mx R, Mn L	E00529	50
Wire, Retainer (stainless steel) twisted	E00530	10
Instrument	i01102	1



KITS	Order Number	Package Contains
Kit, 3x3 6 max/6 man	K00250	72 pads, 4 wires, 1 instrument
Kit, 3x3 6 max/6 man	K002502	72 pads, 4 wires, no instrument
Kit, 4x4 6 max/6 man	K00253	96 pads, 4 wires, 1 instrument



Arch Marking Crayons

- Wire marking crayon indicates set-back, loops, spring positions, etc.
- Water-soluble wax
- High visibility and super adhesion

Color	Order Number	Package Contains
White	J00097	10
Red	J00098	10



Disposable Arch Markers

- Arch marker indicates set-backs, loops, spring position
- Works well on wet or dry surfaces, shows well on stainless steel

	Order Number	Package Contains
Arch Marker Disposable	J00095	100 markers
Arch Marker with Dispenser	J00096	1 dispenser, 100 markers



Crimpable Hooks

- Designed to be crimped on to rectangular arch wire sizes (.016 x .022, .017 x .025, and .019 x .025)
- Use to convert an arch wire into a distalization wire or a closing arch loop

	Order Number	Package Contains
Crimpable Hook, MIM stainless steel	A00129	10
Long Crimpable Hook, MIM stainless steel	A00130	10

Arch Wire Dispenser System

- Dispenser unit desinged to store both RMO® PurePak® and standard arch wire packages for clear identification and simple storage solutions
- Dispenser can be placed on a flat surface or conveniently wall mounted for easy access.



	Order Number	Package Contains
	J00610	1 dispenser

RMO's products are made to inch specifications and are not perfectly interchangeable with products made to metric measurements. The attached tables may be used when product measurement conversions are needed. The figures have been rounded to useable form. It should be noted that when converting from measurements already expressed in millimeters (such as manufacturer's specifications) to inches, a discrepancy due to rounding may occur.

Common Fractions of an Inch and Decimals to Millimeter

Inches	Millimeters
1/64	.0156
1/32	.0312
1/16	.0625
1/8	.1250
3/16	.1875
1/4	.2500
5/16	.3125
3/8	.3750
1/2	.5000
5/8	.6250
3/4	.7500
1	1.000

Conversion of weights avoirdupois

1 pound = .4536 kilograms
= 16 ounces
= 7000 grains

1 ounce = 28.36 grams
= 437.5 grains

1 gram = 15.432 grains

1 grain = .0648 grams

TROY

1 pound = 12 ounces
= 5760 grains

1 ounce = 20 pennyweights
= 480 grains

1 grain troy = 1 grain avoirdupois

Temperature Fahrenheit to Centigrade

°F	°C	°F	°C	°F	°C
-40	-40	60	15.6	200	93.3
-30	-34.4	70	21.1	300	148.9
-20	-28.9	80	26.7	400	204.4
-10	-23.3	90	32.2	500	260
0	-17.8	100	37.8	600	316
10	-12.2	110	43.3	700	371
20	-6.7	120	48.9	800	427
30	-1.1	130	54.4	900	482
40	4.4	140	60	1000	538
50	10	150	65.6	2000	1093

INCH	MM	GAUGE	INCH	MM	GAUGE	INCH	MM	GAUGE	INCH	MM	GAUGE
.001	.03		.026	.66		.051	1.30	16	.076	1.93	
.002	.05		.027	.69		.052	1.32		.077	1.96	
.003	.08		.028	.71	21	.053	1.35		.078	1.98	
.004	.10		.029	.74		.054	1.37		.079	2.01	
.005	.13		.030	.76		.055	1.40		.080	2.03	
.006	.15		.031	.79		.056	1.42		.081	2.06	12
.007	.18	33	.032	.81	20	.057	1.45	15	.082	2.08	
.008	.20	32	.033	.84		.058	1.47		.083	2.11	
.009	.23	31	.034	.86		.059	1.50		.084	2.13	
.010	.25	30	.035	.89		.060	1.52		.085	2.16	
.011	.28	29	.036	.91	19	.061	1.55		.086	2.18	
.012	.30		.037	.94		.062	1.57		.087	2.21	
.013	.33	28	.038	.96		.063	1.60		.088	2.23	
.014	.36	27	.039	.99		.064	1.63	14	.089	2.26	
.015	.38		.040	1.02	18	.065	1.65		.090	2.29	
.016	.41	26	.041	1.04		.066	1.68		.091	2.31	11
.017	.43		.042	1.07		.067	1.70		.092	2.34	
.018	.46	25	.043	1.09		.068	1.73		.093	2.36	
.019	.48		.044	1.12		.069	1.75		.094	2.39	
.020	.51	24	.045	1.14	17	.070	1.78		.095	2.41	
.021	.53		.046	1.17		.071	1.80		.096	2.44	
.022	.56		.047	1.19		.072	1.83	13	.097	2.45	
.023	.58	23	.048	1.22		.073	1.85		.098	2.49	
.024	.61		.049	1.24		.074	1.88		.099	2.51	
.025	.64	22	.050	1.27		.075	1.90		.102	2.59	

instruments

Colorado in Autumn.



Notes, Quotes and Anecdotes

In 1884, P.T. Barnum helped to squelch doubts about the stability of a New York landmark—while publicizing his famous circus—by leading a herd of 21 elephants over the Brooklyn Bridge.

Albert Einstein was visited one day by one of his students. “The questions on this year’s exam are the same as last year’s,” the young man exclaimed. “Yes,” Einstein replied, “but this year all the answers are different!”

Jack Benny was forever attempting to make fellow comedian George Burns laugh. “I thought I had him once (in a hotel) in Milwaukee,” Benny recalled. “George telephoned me from downstairs to say that he was coming up. I got undressed and stood naked at a table posing like a statue holding a rose in my hand. As he figured when he came in the door, he’d laugh.” What happened? “He sent the maid in first!”

In 1889, the editor of the San Francisco Examiner, having published one article by Rudyard Kipling, declined to accept any more of the author’s work. The reason? “I’m sorry, Mr. Kipling,” he explained, “but you just don’t know how to use the English language. This isn’t a kindergarten for amateur writers.” Eight years later, Kipling (who had already written “The Man Who Would Be King”) was awarded the Nobel Prize of Literature.

What makes SCHWEICKHARDT instruments the better choice?

Superior quality maximizes satisfaction.

A top quality instrument offers two unbeatable advantages for its user:

- Top quality instruments make the daily work more satisfying. Because they allow for a more precise and ergonomic work process—which leads to better work results day to day over years and years.
- Top quality instruments are the more economic choice.
1) Top quality instruments enable their users to achieve the same work result in less time or a better work result in the same time **2)** Top quality instruments last longer and therefore minimize investments for replacement and repair.

Adolf Schweickhardt GmbH & Co. has been producing dental instruments for more than 100 years, which makes them one of the most experienced manufacturers in the world. We are one of the very few manufacturers producing its complete line from raw material to final instrument only in Germany. German craftsmanship, with its legacy of precision, produces the best quality in the world. We invest heavily to support craftsmanship with state-of-the-art, high-tech machinery. Our computerized high precision milling machines, for example, are accurate to 1/100mm.

Inserted Pliers

Especially for inserted pliers, fulfilling all of the above mentioned requirements demands great care and expertise.

Certain treatments of hard wires such as cutting and sharp bending of arch wires, specifically stress the working ends of orthodontic pliers. Therefore, these working ends need to be equipped with hard inserts to ensure perfect function and prevent them from being damaged by the wire.

RMO Schweickhardt inserts are made from a special alloy and are applied to the plier with a highly sophisticated brazing technique.

Our insert alloy combines hardness (around 62 HRC) with a high corrosion resistance. Therefore our pliers do not need to be chrome plated. Consequently, our pliers can be subject to ultrasonic cleaning and disinfection with appropriate liquids as well as autoclave sterilization. In addition, our pliers don't have the risk of chrome plate peeling off. That could potentially endanger the patient's health if it happens during use of the plier in the patient's mouth. It would also end the lifetime of the plier because if the chrome starts peeling off, the plier will corrode quickly.

Our insert brazing technique was especially developed for these pliers. The inserts are brazed to the plier with great care, which means effort...but this effort pays off because the inserts stick safer to the beaks. No RMO Schweickhardt plier ever loses its inserts during use, which is not always so for these sorts of pliers. Having mastered the insert technique, three more requirements have to be fulfilled to produce a top quality plier.

Our beaks and inserts are milled on high precision machines and additionally get final adjustment by expert craftsmen with long experience, because the best insert can only be as good as the exactness of its shape.

Our locks are produced with great care to ensure a smooth and precise action over the whole working angle. That's because precision of lock determines precision of plier. If the lock is not tight enough, the plier will not allow for precise work because the working ends will not close as precisely as they are supposed to. If the lock is too tight, opening and closing will cause difficulties which in turn makes exact work very difficult.

A box lock—the gold standard of locks in terms of long-term precision—is technically not possible for inserted pliers. But our screw locks ensure a precise opening/closing procedure over a long time. This is because we fasten the screw into the body with a special procedure so that it won't become loose even after years of usage.

All edges of our pliers are carefully chamfered to increase safety of patient and doctor (no pinching or wounding of gums).

For less stressing wire treatments, such as ligature wires, bands, elastics and light wires, orthodontic pliers do not need inserts. The advantage of these non-inserted pliers is that they can be equipped with box locks. Still, for some procedures, an additional protection of the beaks is desirable for:

- A better durability of beaks (the beaks will hold their exact form longer).
- A safer grip of the wire (the wire won't slip off). Therefore, we protect those pliers with a tungsten carbide coating and we are the only ones who do it. Our non-inserted pliers are produced with the same great care on beak form, locks and edge chamfering as our inserted pliers.

SCHWEICKHARDT inserted pliers

More precise handling of wire. High precision beaks guarantee perfect holding, bending and cutting results.

Longer lasting working ends through especially hard inserts.

High corrosion resistance without chrome plating—no risk of plating peeling off.

Higher safety and comfort through careful chamfering of all edges.

Easier instrument care: All standard U.S. hygienic procedures are applicable, especially ultrasonic cleaning and hot air sterilization up to 390° F.

Safer hold of inserts in beaks through special brazing technique; practically no inserts coming loose during use.

Better guidance of working ends. Precision machine work on both lock and screw secure a precise and even action over a long time.

SCHWEICKHARDT non-inserted pliers

More precise handling of wire. High precision beaks guarantee perfect holding, bending and cutting results.

Longer lasting working ends through a special tungsten carbide coating.

Better guidance of working ends. High precision box locks secure a precise and even action over a long time.

Higher safety and comfort through careful chamfering of all edges.

Handle shape designed for comfort and ease of use.

Easier instrument care: All standard U.S. hygienic procedures are applicable, especially ultrasonic cleaning and hot air sterilization up to 390° F.

	Order Number	Package Contains
Band Adapter (RMO®)		
• Durable plastic bite block and RMO® tempered stainless steel band seating pin		
• For bite or hand rocking bands		
• White plastic handle		
• Serrated pin		
• Replacement bite block		
• Cold sterilize		
	i00064	1
Replacement bite block	i00065	2

Band Pusher		
• Serrated stainless steel tip, non-removable		
• Stainless steel handle – square with chamfered corners		
• Tip end has square serrations		
	i00300	1

Band Seater (RMO®)		
• Spring actuated thrust insures proper band seating		
• Plastic handle with stainless steel barrel and tempered steel removable tip		
with offset tip	i00580	1
replacement offset tip	i00581	1
with straight tip	i00600	1
replacement straight tip	i00601	1
with narrow straight tip (Gaston)	i00610	1
replacement narrow straight tip	i00611	1

instruments

SCHWEICKHARDT BAND CONTOURING INSTRUMENTS

instruments

SCHWEICKHARDT UTILITY PLIERS

	Order Number	Package Contains
<p>Contouring Plier (Johnson)</p> <ul style="list-style-type: none"> • Concave and convex tips for contouring bands • Stainless steel • Box joint 	i00114	1

<p>Contouring Plier (Gordon)</p> <ul style="list-style-type: none"> • For bands and anterior stainless steel crowns • Stainless steel • Box joint 	i00137	1
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	Order Number	Package Contains
<p>How Plier Straight</p> <ul style="list-style-type: none"> • Extra hard stainless steel • Good all around utility plier has long slender lip-safe beaks • Tips are serrated and hard carbide coated for additional grip • Lip-safe edges at box and beaks • Tips are precisely adjusted • Box joint 	i00110	1

<p>How Plier Curved</p> <ul style="list-style-type: none"> • Same as i00110 only with curved beaks • Curved beaks increase efficiency in posterior area • Box joint 	i00111	1
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<p>Plier Weingart Style</p> <ul style="list-style-type: none"> • Stainless steel • Tips are delicate and meet precisely so that even small attachments can be firmly held • General purpose utility plier with curved beaks • Inserted tempered tips for longer life • Serrated and lip safe • Tip width 10mm • Up to .020" (.508mm) 	i00556	1
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<p>Plier Weingart Style - Mini</p> <ul style="list-style-type: none"> • Stainless steel • Tips are delicate and meet precisely so that even small attachments can be firmly held • General purpose utility plier with curved beaks • Inserted tempered tips for longer life • Serrated and lip safe • Tip width 6mm 	i00586	1
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instruments

SCHWEICKHARDT WIRE BENDING PLIERS

instruments

SCHWEICKHARDT WIRE BENDING PLIERS

instruments

instruments

	Order Number	Package Contains
<p>Loop Plier (Tweed)</p> <ul style="list-style-type: none"> • Extra hard stainless steel • Tips precision milled • Three step loop former .049" (1.25mm), .065" (1.65mm), .085" (2.15mm) • Grooved and serrated opposing tip for very small loops • For up to .022" x .028" (0.559mm x 0.711mm) wire • Non-removable tip • Box joint 	i00350	1

<p>Loop Forming Plier (Optical Type)</p> <ul style="list-style-type: none"> • Extra hard stainless steel • Cone and concave beaks for round wires • Concave beak is contoured to ensure more uniform loops • Round beak is precision ground to .047" at tip • For working round wires at tip up to .020" (0.508mm) • Box lock 	i00351	1
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<p>Loop Plier (Tweed)</p> <ul style="list-style-type: none"> • Includes one extra replacement tip • Hard tool steel inserts • Round beak is heat-treated. It has two sections of .047" (1.2mm), .059" (1.5mm) • Concave beak prevents wire nicking and ensures more uniform loops; for making Omega loops • Up to .020" (0.508mm) wire 	i00548	1
Replacement tips	i00549	2

<p>Wire Bending Plier (Angle) Bird Beak Type</p> <ul style="list-style-type: none"> • Extra hard steel • Tips meet very precisely • Cone and pyramid shaped tips • Carbide coated tips for better grip of wire and longer lifetime • Round beak is precision ground to .039" (1.0mm) at tip • Box joint • Bends wire up to .022" x .025" (0.559mm x 0.635mm) and round up to .028" (0.711mm) 	i00139	1
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<p>Light Wire Plier</p> <ul style="list-style-type: none"> • Longer, more gradually tapered beaks than the Bird Beak plier • For working light round wires up to .020" (0.508mm) • Longer beaks make it easier to bend small diameter loops 	i00140	1
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<p>Lingual Arch Forming Plier</p> <ul style="list-style-type: none"> • Designed to form double back and triple back bends in either .030" (0.762mm) or .036" (0.914mm) wire for inserting in lingual sheaths • Double back groove is close to the plier joint to assure adequate forming • Recommended for use with 3D® FIXED/REMOVABLE™ (Wilson®) for palatal activation appliances 	i00420	1
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<p>Closing Loop Plier (Nance)</p> <ul style="list-style-type: none"> • Extra hard stainless steel • Four step loop forming beaks precision milled • Radiused edges prevent wire damage • Box joint • Up to .028" (0.711mm) wire 	i00001	1
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<p>Closing Loop Plier (Standard)</p> <ul style="list-style-type: none"> • Same use and same characteristics as the Nance i00001, but permits uniform vertical bendings • Permits the simultaneous forming of two right angled bends • Box joint • Max wire .028" (0.711mm) 	i00101	1
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instruments

SCHWEICKHARDT WIRE BENDING PLIERS

	Order Number	Package Contains
<p>Three Jaw Clasp Adjusting Plier (Aderer Type)</p> <ul style="list-style-type: none"> • Tips for rounded or dimensional wire up to .040" (1.016mm) • Box joint • Exact shape and position of beaks will avoid squeezing and marking of wire • Made from extra hard stainless steel 		
Up to .040" (01.016mm)	i00200	1
<p>Up to .030" (0.762mm)</p>	i00201	1

	Order Number	Package Contains
<p>Arch Forming Plier (Angle)</p> <ul style="list-style-type: none"> • For bending, holding or torquing dimensional wires • Stainless steel with hard carbide coated tip surfaces • Box joint • Offering maximum resistance against wear by torquing • Up to .021" x .028" (0.534mm x 0.711mm) 		
	i00442	1

	Order Number	Package Contains
<p>Crimpable Hook Plier</p> <ul style="list-style-type: none"> • For attaching crimpable hooks securely to arch wires with minimum pressure • Stainless steel 		
	i00129	1

instruments

SCHWEICKHARDT CUTTERS

	Order Number	Package Contains
<p>Distal End Cutter, Safety Hold</p> <ul style="list-style-type: none"> • Shear cuts hardwire and then safety holds the loose distal end to prevent wire from going into tissue • Hard tool steel insert • Cut wire up to .021 x .025 (0.534mm x 0.635mm) and .026 round • Designed for intraoral cutting and lip safety • Made from selected surgical stainless steel to provide lasting beauty and durability • Not ideal for braided wire 		
Regular beak	i00550	1
Small beak*	i00554	1
*Reaches the molar area easier, due to the small beak		

	Order Number	Package Contains
<p>Ligature Cutter</p> <ul style="list-style-type: none"> • Stainless steel • Soft ligature wire only - up to .020" (0.508mm) • All edges of lock are lip safe for intraoral use • Fine tips for easy intraoral access • Pliers will cut wires up to the very tip • Hard tool steel inserts diamond honed 		
	i00552	1

	Order Number	Package Contains
<p>Miniature Cutter</p> <ul style="list-style-type: none"> • Stainless steel • Soft ligature wire only - up to .012" (0.305mm) • Hard tool steel inserts diamond honed 		
	i00551	1

	Order Number	Package Contains
<p>Flush Distal End Cutter with O-Ring</p> <ul style="list-style-type: none"> • Hardened insert • Elastomeric o-ring • Wire up to .022" x .028" (0.559mm x 0.711mm) and up to .026" (0.660mm) round • Due to the o-ring, the cutting edges do not have direct contact which ensures longer sharpness of the cutting edges 		
short	i00567	1
long	i00568	1
replacement o-ring	i00569	10

instruments

instruments



Ligature and Hard Wire Cutter

- Stainless steel
- Pliers are designed for cutting wires with minimum force
- Cuts to maximum of .022" x .028" (0.559mm x 0.711mm)
- Hard tool steel inserts

Order Number Package Contains

i00553 1



Heavy Wire Cutter

- Hard tool steel insert
- Cutting capacity up to .040" (1.016mm) in the rear area, .024" (0.610mm) in front
- Hard tool steel inserts

i00265 1



Distal End Cutter Flush V Design

- Assures arch wire is cut flush with the end of a tube
- Safety hold is ideal for intraoral cutting and lip safety
- Cuts Elgiloy®, S.S. and Niti .016" (0.406mm) to .018" x .022" (0.457mm x 0.559mm)
- Braided Wire .0175" (0.445mm)

i00560 1



Distal End Cutter Flush

- Assures arch wire is cut flush with the end of a tube
- Safety hold is ideal for intraoral cutting and lip safety
- Cuts Elgiloy®, S.S. and Niti .014" (0.356mm) to .018" x .022" (0.457mm x 0.559mm)
- Braided Wire .0175" (0.445mm)

i00566 1



Ligature Tying Plier (Coon)

- Semi-automatic
- Locking channel is chamfered and burr-free to allow wire to slide before locking without being cut
- Tips are thin allowing close contact to bracket
- Up to .012" (0.305mm) soft wire

Order Number Package Contains

i00153 1



Module Placing Plier

- For initial placing of force modules
- Ideal for placing ligatures and separators
- Easy access to difficult areas (posterior)
- Reduces module breakage
- Patient safe, easy spring-back action

i00810 1

Ligature Tucker and Tier (Broussard™)

- Stainless steel
- One end twists steel ligature into a 'tie'
- The other 'tucks' twisted wire

i00274 1



Ligature Tucker

- Straight notched tip at one end for anterior brackets
- Angled notched tip at other end for posterior brackets
- Slot in tips is chamfered to avoid breakage of ligature wires
- Tips are smoothed to avoid hurting tissue

i00273 1



instruments

SCHWEICKHARDT LIGATION PLIERS AND INSTRUMENTS



Needle Holder Small Narrow Tip (Mathieu)

- Precision made ligating instrument tips – safe beaks
- With ratchet lock handle
- Tips are serrated and carbide coated for positive gripping of ligature wires and modules; also to reduce wear
- Hook tip style for easy placement of elastic modules and gripping
- 5.5" (14cm) long
- Ligature wire up to .016" (0.406mm)

Order Number	Package Contains
i00028	1



Needle Holder Small (Mathieu)

- Precision made ligating instrument tips – safe beaks
- With ratchet lock handle
- Free sliding inner spring opens beaks when lock is released
- Tips are serrated and carbide coated for positive gripping of ligature wires and modules; also to reduce wear
- 5.25" (13cm) long
- Ligature wire up to .016" (0.406mm)

Order Number	Package Contains
i00030	1



Mosquito Hemostat

- 4.75" (12cm) long
- With locking handle
- Serrated tips for positive gripping

Order Number	Package Contains
i00124	1

instruments

SCHWEICKHARDT BAND AND BRACKET REMOVAL/SCALERS



Posterior Band Removing Plier

- Long chisel tip with carbide insert
- Facilitates removal of posterior bands
- With replaceable occlusal nylon pads
- Stainless steel
- Will stay sharp

Order Number	Package Contains
i00347	1
Replacement Pads i00357	10



Direct Bond Removing Plier

- Wedges between both edges of the base and the tooth surface and lifts off with virtually no stress
- Grips firmly for occlusal-gingival or mesial-distal use
- Hard tool steel insert

Order Number	Package Contains
Narrow i00545	1
Wide i00546	1

Utility Scaling, Ligature Remover and Band Seating Instrument (Schure)

- Extra hard stainless steel
- Precision knurled handle
- Sharp scaling shape on one end and serrated band seating tip on the other
- Tips are heat-treated to maintain sharp edge for extended use
- New narrower scaller tip

Order Number	Package Contains
i00349	1



Band Pusher/Scaler (Guequierre)

- Extra hard stainless steel
- Dual scaling surface
- One end has sharp curved scaling head, and serrated tip on the other

Order Number	Package Contains
i00358	1



instruments

instruments

instruments

SCHWEICKHARDT SPECIALIZED INSTRUMENTS



Cap Removal Instrument (RMO®)

- To remove caps from convertible tubes
- Replaceable blade provides leverage when removing cap
- Tip of blade fits securely in arch slot of tube
- With 10 blades
- Stainless steel handle and blade

	Order Number	Package Contains
	i00557	1
Replacement blades	i00559	5



Modular Omega Plier (RMO®)

- For adjusting the expansion or contraction of the Omega loop on the Bimetric Distalizing Arch (Wilson®)
- Hook on round end to hold Omega loop

	i00548 W	1
Replacement tips	i00549 W	2



Direct Bonding Tweezer, Self-Locking w/Thin Tips

- Self-locking action
- Ideal for posterior bracket placement
- Thin tips fit between bracket wings and base
- Recommended for use with the RMO® Bondable Lingual Retainer

	i01102	1
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Hex Wrench for RM® Lock

- Stainless steel with hard steel tip

	i00034	1
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instruments

SPECIALIZED INSTRUMENTS AND AUXILIARIES



Ortho/Trace - Cephalometric Tracing Acetate

- Smooth matte transparent surface -.003" (0.076mm)
- Gives sharp lines when tracing study radiographs
- Dimensionally stable, remains flat
- Rounded corners match standard 8" x 10" (20.32 x 25.4cm) rounded corner radiographs

	J00086	100 sheet-
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Arch wire Marking Crayon

- Arch wire Marking Crayons are made with thick wax tips which provide precise marking, high visibility and superior adhesion
- These specialized crayons are made from materials that are safe to use in the mouth

White	J00097	10
Red	J00098	10



Bow Divider

- For appliance and model measurements. Maximum 2" (5.08mm) between points

	i00395	1
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Golden Divider (Ricketts®)

- Describes harmonious relations in the face, hand, tissue and dentition
- Stainless steel - can be sterilized

	i00394	1
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(Instructions by request)



Fitzgerald X-Ray Holding Unit Rubber Bite Block

Large	i00364	2
Small	i00365	2



Instrument Rack

	i00042	1
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RMO's Instrument Lubricant

- Technical grade white oil that can be applied after drying and prior to sterilization
- Improves the life of the instrument
- Provides a fast and economical solution of preventing rust and protecting cutting edges
- Regular treatment reduces the danger of oxidation

	J00201	1
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Warranty

SCHWEICKHARDT/RMO® instruments

SCHWEICKHARDT/RMO® instruments are 100% German-made by expert craftsmen using selected high-grade materials. These high-quality, precision instruments ensure routine orthodontic procedures are more efficient. An investment in quality Schweickhardt instruments will provide many years of reliable service.

Warranty

- All SCHWEICKHARDT/RMO instruments are fully guaranteed against corrosion and separation of inserts for five years from the purchase date.
- All SCHWEICKHARDT/RMO instruments are fully guaranteed for the life of the instrument to be free of defects in materials and workmanship.
- All SCHWEICKHARDT/RMO instruments, if misused, abused or failure to properly maintain or care for the instruments will void all warranty claims.

Return

- All RMO® instruments, which are unopened and in the original package, may be returned for full credit of the purchase price within 90 days of invoice.
- All RMO instruments, if defective, not misused, or tampered with in any manner, are returnable to RMO for repair, replacement or refund, at RMO's option.

Repair

For SCHWEICKHARDT/RMO instruments outside the warranty, call RMO customer service or your sales representative with recommendation for repair.

RMO customer service number is 1-800-RMO-ORTHO.

Recommendation for Care and Maintenance of Schweickhardt/RMO Instruments

These instruments are designed to provide long and faithful service. To protect your investment and ensure reliable service, please follow these recommendations for maintenance and care.

New instruments should be brushed (using a non-metal brush) with soap and water, rinsed, dried and sterilized prior to first use.

Disinfecting and Cleaning

- Scrub, clean and disinfect immediately after being used to remove debris, cement, adhesives and blood, to avoid drying of contaminants on instruments.
- Chemical disinfection is the method of choice using an alkaline product (rust inhibitor). The solution must be prepared fresh daily, with the same concentration. Dip instrument into solution. Scrub the tips with a plastic brush. Do not soak the instrument for an extended period of time, and do not heat above room temperature.
- Ultrasonically clean 5-8 minutes. Use a high-quality, non-aggressive solution with rust inhibitors which have a neutral pH. Extended cleaning time with acidic chemicals will damage the instruments, especially chemicals designed to remove cements.

- Rinse the instruments with distilled or deionized water immediately after disinfecting and cleaning. Dry with a towel, forced warm air (portable 800 Watt hair dryer), or compressed air to avoid water staining.
- If these steps are not followed, instruments may corrode or discolor during sterilization.

Sterilization

- Acceptable up to 185°C (395°F). Higher temperatures may cause discoloration of instrument.
- Do not heat sterilize instruments with plastic or rubber components, as it will tend to distort and discolor.
- Sterilize instruments in open position using the instructions for your unit.
- Make sure no moisture is sealed in the bag.

Dry Heat

- No chemical required.
- No corrosion problems when properly dried before process.

Chemiclave (chemical vapor)

- Has low heat and very low water vapor content as well as a short cycle time.
- A special chemical solution must be used in a properly ventilated area.

Autoclave (steam under pressure)

- Good penetration
- Possibility of rust and corrosion if instruments remain wet after processing

Cold sterilization (Glutaraldehyde)

- Must remain in solution a minimum of 10 hours.
- Useful for sterilization of heat sensitive instruments with plastic or rubber.

Maintenance

- Corroded instruments should be discarded.
- Corrosion can be transferred during sterilization. Joints, inserts and ratchets have to be treated with paraffin or lubricant.

Hints

- Apply a light coat of silicone spray every two weeks, or as needed.
- Do not dry-heat sterilize instruments with plastic handles.
- Ultrasonic cleaning may loosen inserts and dull sharp edges.
- All cutters should be resharpened every 6-9 months, or as necessary.
- Warranty does not cover routine maintenance, sharpening or reconditioning.

instruments

APEX SERIES™ INSTRUMENTS

RMO's APEX Series™ Instruments

The high quality of RMO at an economical price

APEX Series™ instruments are manufactured using high-tech equipment and high-end processing to ensure our customers get the highest quality product at a very economical price. The APEX line of instruments is designed to last and maintain a high quality throughout their life.

APEX Series instruments use surgical grade 420 stainless steel forgings with high grade of tool steel inserts to provide you with one of the finest instrument lines.

Along with our standard high quality material the M² plier line is today's answer to the decades old problem of delivering high quality pliers with the best corrosion resistance.

PREMIER M² Plier Line is today's answer to the decades old problem of delivering orthodontic instruments with adequate corrosion resistance.

The M² Plier Line has the same 420 series stainless steel box-jointed forgings as our original tough and rugged tool steel pliers. What makes the M² Plier Line extraordinary is the highly corrosion-resistant steel inserts that not only withstand the rigors of cutting, bending, and forming highly tensile orthodontic wires, but contain the highest level of chromium available in any tool steel.

Because of the chemical and basic elemental properties of this new compaction metal—combined with an advanced processing methodology—we have found a material with significant advantages over both tool steel and tungsten carbide. The M² Plier Line is the solution to brittle, fractured carbide inserts, flaking chrome plating, and all the other compromises previously necessary to make corrosion resistant instruments.

Tired of this?



Want this?



M² – new technology metallurgy delivers inserted tip materials with extremely high chromium content.

instruments

APEX SERIES™ UTILITY PLIERS



How Plier - Straight

- 2.5mm tips
- Matching serrated pads assure a firm, positive grip
- Rounded tips for patient comfort and safety

Wire Range	Order Number	Package Contains
.012" - .028" (0.305mm - 0.711mm) Round	T00112	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Weingart Plier

- Fully serrated cross-cut inserted tip at the most convenient working angle
- Features bowed jaws that won't pinch the patient's lip

Wire Range	Order Number	Package Contains
.012" - .028" (0.305mm - 0.711mm) Round	T00556	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



i-TTR Utility Tweezer

- Stainless Steel
- Thin tapered tips are serrated for additional grip
- Excellent general use utility tweezer
- Recommended for use with the RMO i-TTR Lingual Bracket System

Order Number	Package Contains
T00700	1



i-TTR Wire Director

- Stainless Steel
- Precision knurled handle
- Angled notched ends for directing wire in and around bracket
- Recommended for use with the RMO i-TTR Lingual Bracket System

Order Number	Package Contains
T00701	1

instruments

APEX SERIES™ WIRE BENDING PLIERS



Bird Beak Plier

- Versatile plier for orthodontic heavy wire bending
- Round and pyramid beaks are smooth to prevent wire scoring
- Can also be used to form springs
- Tip sizes are .035" round and square

Wire Range	Order Number	Package Contains
.020" - .032" (0.508mm - 0.813mm) Round	T00138	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Light Wire Plier

- Extra long, narrow beaks for precise bends
- Designed for working with small wires and forming wire springs
- Tapered beaks make it easy to bend small diameter loops
- Tip sizes are .030 round and square

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round	T00141	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Cinch Back Plier

- This plier is made with the optimum angle for working behind the buccal tube
- Serrated tips are tapered to a fine point allowing access to hard-to-reach areas

Wire Range	Order Number	Package Contains
.012" - .020" (0.305mm - 0.508mm) Round	T00159	1
.016" x .022" (0.406mm x 0.559mm) Rectangular		



3-Jaw Plier

- Precision tips for accurate wire and clasp adjusting and contouring
- Also excellent for bending of orthopedic appliances

Wire Range	Order Number	Package Contains
.014" - .030" (0.356mm - 0.762mm) Round	T00201	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Wire Contouring Plier

- Smooth, non-grooved surface with chamfered forming surfaces for stress-free bending

Wire Range	Order Number	Package Contains
.016" - .036" (0.406mm - 0.914mm) Round	T00204	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		

instruments

APEX SERIES™ WIRE BENDING PLIERS



Optical Plier

- Concave/convex beaks bend round or rectangular wire

Wire Range	Order Number	Package Contains
.012" - .032" (0.305mm - 0.813mm) Round	T00351	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



V-Bend Plier

- Special design makes 1mm "V" bends to shorten arch wires or provide a positive stop
- Excellent for placing stops in nickel-titanium wires

Wire Range	Order Number	Package Contains
.012"-.020" (0.305mm - 0.508mm) Round	T00221	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Loop Forming and Closing Plier (Nance Style)

- Precision loop forming with four-step tip (3, 4, 5, and 6mm)
- Serrated tips prevent wire slippage

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round	T00001	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Tweed Loop Forming Plier

- Concave/convex beak makes precise Omega loops
- Tip has three forming sections: .045", .060", and .093"

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round	T00350	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Replacement Tip	T00350t	1
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instruments

APEX SERIES™ WIRE BENDING PLIERS



Lingual Arch Forming Plier

- Plier makes consistent and repeatable bends
- Forms double-back and triple-back bends in .030" and .036" wire for use with lingual sheaths
- Jaws of the plier have four grooves placed and sized for all different sized larger wires

Wire Range	Order Number	Package Contains
.020" - .036" (0.508mm - 0.914mm) Round	T00420	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		



Rectangular Arch Bending Plier (Tweed Style)

- Ideal for forming square and rectangular arch wires
- Thin jaws are parallel at .020" opening
- Forms offsets and 90° bends on all types of arch wire

Wire Range	Order Number	Package Contains
.022" x .028" (0.559mm x 0.711mm) Rectangular	T00442	1

Crimpable Hook Plier

- Angled beak of the plier allows for precise placement of the hooks on the arch wire
- One squeeze and the hook is secure

Order Number	Package Contains
T00130	1



Step Plier

- Step plier is equipped with a double-sided offset beak for bayonet-style step bend
- Creates right hand or left hand step-up or step-downs

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round	T00134	1
.022" x .028" (0.559mm x 0.711mm) Rectangular		
1mm	T00132	1
.5mm		



NiTi Crimping Plier

- Forms a smooth bend or crimp without nicking Nickel Titanium wire

Wire Range	Order Number	Package Contains
.022" - .028" (0.559mm - 0.711mm) Rectangular	T00160	1

instruments

APEX SERIES™ CUTTERS



Pin and Ligature Cutter

- Concave design front for maximum vision when cutting
- TRU-CHROME® (S.S.) and Elgiloy® wire only

Wire Range	Order Number	Package Contains
.010" - .020" (0.254mm - 0.508mm) Soft Wires	T00552	1



Mini Pin and Ligature Cutter

- Fine tips to easily access hard-to-reach areas
- Cuts wire ligatures, pins and elastics
- TRU-CHROME® (S.S.) and Elgiloy® wire only

Wire Range	Order Number	Package Contains
.010" - .014" (0.254mm - 0.356mm) Soft Wires	T00551	1



Safety Hold Distal End Cutter

- Safety hold is ideal for cutting wires within the patient's mouth
- Plier shear-cuts and holds arch wire within .5mm of the buccal tube

Wire Range	Order Number	Package Contains
.012" - .022" (0.305mm - 0.559mm) Round .022" x .028" (0.559mm x 0.711mm) Rectangular	T00550	1

instruments

APEX SERIES™ CUTTERS



Standard Flush Cut and Hold Distal End Cutter

- This unique design cuts wires flush with the buccal tube while holding fragments with a wire spring

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round .022" x .028" (0.559mm x 0.711mm) Rectangular	T00566	1



Distal End Cutter (with Long Handle)

- Cuts and holds arch wire within .5mm of the buccal tube
- Long handle design allows better control behind second molars, also results in less force to cut

Wire Range	Order Number	Package Contains
.012" - .022" (0.305mm - 0.559mm) Round .022" x .028" (0.559mm x 0.711mm) Rectangular	T00554	1



Hard Wire Cutter

- 15° cutting angle for easy intraoral access
- The extra strong edges make it one of the most popular cutters
- Designed to cut all arch wires
- Capability of cutting ligatures at the tip

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round Hard Wire .022" x .028" (0.559mm x 0.711mm) Rectangular Hard Wire	T00553A	1



Hard Wire Cutter 2

- Designed to cut all arch wires
- Capability of cutting ligatures at the tip

Wire Range	Order Number	Package Contains
.014" - .020" (0.356mm - 0.508mm) Round Hard Wire .022" x .028" (0.559mm x 0.711mm) Rectangular Hard Wire	T00553	1

instruments

APEX SERIES™ LIGATING PLIERS/LIGATURE REMOVAL/BAND REMOVAL



Force Module Separator

- Reverse action handles and long tapered tips make placing separating modules quick and easy

Order Number	Package Contains
T00810	1



Mathieu Wide Tip

- Mathieu-style needle holder with serrated tips
- Positive locking ratchet permits instant opening and closing

Order Number	Package Contains
T00030	1



Mathieu Hole-Tip

- Mathieu-style needle holder with .020" groove at tips for non-slip placement of elastic ligatures and other intraoral elastics without crusing—eliminating premature failure

Order Number	Package Contains
T00031	1

Synergy® Ligature Remover

- Designed to fit inbetween tie wings
- Small, rounded, approximately 45° angle tip
- Easy access to anterior and posterior teeth



Order Number	Package Contains
T00520	1



Posterior Band Remover

- Wedges under the band while the 5mm replaceable Teflon bumper rests on the occlusal surface for easy band removal

Order Number	Package Contains
T00347	1
T00347T	5 each

Replacement Pads

instruments

APEX SERIES™ BOND PLACEMENT TWEEZER/REMOVERS



Direct Bond Bracket Holder

- Unique reverse action tweezer with finely serrated beaks for a non-slip grip
- Easy release of both metal and plastic direct bond brackets
- Fits narrow to wide twin

Order Number	Package Contains
T00101	1



Direct Bond Remover - Straight

- Wedges between the base and the tooth surface and lifts off with virtually no stress
- Precision diamond honed wedges work on all types of brackets

Order Number	Package Contains
T00546	1



Direct Bond Remover - Angled

- Quickly and safely removes direct bond brackets
- Angled precision edges allow for easy removal of brackets and excess bonding material

Order Number	Package Contains
T00545	1



Cap Removal Plier

- This precision stainless steel instrument uses joint plier transfer to shear off convertible caps effortlessly, and with one fluid motion
- The slender rail design allows doctors to easily access the buccal region with little obstruction
- The blade tips feature a filleted design allowing for an easy, low-force cap removal
- Can be used on any convertible buccal tubes as well as convertible brackets
- Each packaged instrument will include two replacement blades

Order Number	Package Contains
T01200	1

Cap Removal Plier, 2 Replacement Blades

Order Number	Package Contains
T01201	5 each

Replacement Blades for Cap Removal Plier



Warranty

APEX Series™/RMO® instruments

Guarantee

All RMO APEX Series™ instruments offer an unconditional one year warranty for manufacture defects, with an additional lifetime guarantee for insert debonding.

Wear is a normal result of use, and is not a defect in workmanship. RMO will not replace or exchange cutters that have been in service for six months or longer.

All RMO APEX Series instruments are fully guaranteed to be free of defects in materials and workmanship. If the instrument is misused, abused or not properly maintained and cleaned, the warranty claims will be void.

Return

All RMO APEX Series instruments, which are unused, unopened and in the original package may be returned for full credit within 90 days of purchase invoice. If defective and not misused or tampered with in any manner, may be returned to RMO within 90 days for replacement or refund.

Repair

For repair to the APEX Series instruments outside the warranty, call RMO Customer Service, your sales representative or your local distributor for repair recommendations. RMO Customer Service number 800-525-6375.

Care and Maintenance

Lubrication – RMO recommends lubrication of all instruments every week depending on use.

Introduction – RMO has chosen a hi-tech material for its standard plier tip inserts which we believe provides the most superior properties for orthodontic applications. This ferrous material is extremely strong, resistant to abrasion, flexible without fracturing in thin cross sections, and ultimately durable. These materials combined with our box-jointed stainless steel forgings give you excellent value for your instrument dollar, but require your participation in proper care to provide their maximum potential value to your practice.

H₂O – One of the most important factors in the safe and effective cleaning and sterilization of your valuable instrument investment is something as simple as water.

Water in many municipal supplies can contain high levels of chlorine, chloramines, iron, and sulfur, plus other trace elements that can be damaging to your pliers. Tap water used to dilute cleaning solutions and for rinsing pliers prior to sterilization can cause severe damage. Chemicals in tap water can also neutralize rust inhibitors causing a corrosive effect on plier tips even when you are spending the time and money to use the right materials. We highly recommend that your office use distilled, R/O, or filtered water for mixing your cleaning solutions, combined with a no-rinse formula for cleaning solutions.

Choosing a Sterilization Method

RMO STRONGLY RECOMMENDS DRY HEAT STERILIZATION FOR INSERTED ORTHODONTIC PLIERS AS THE OPTIMUM METHOD OF INFECTION CONTROL. Other methods of sterilization can be adapted to the non-stainless materials used in many inserted orthodontic pliers, but the following guidelines must be followed carefully.

Dry Heat Sterilization

Because of the non-stainless characteristics of a vast majority of orthodontic plier tip materials, Rapid Dry Heat Sterilization became the most widely used method of infection control in this dental specialty. Between rapid cycle turn-around and large load capacity, it was the logical choice for practitioners seeking to protect their substantial instrument investment. Even with advances in materials technology, Dry Heat remains as one of today's most sensible choices for safety and efficacy in the busy orthodontic practice.

- Clean in an ultrasonic unit for 10 minutes, with a no-rinse general purpose solution with an included rust inhibitor. Keep tips open during cleaning.
- Dry instruments with a compressed air blast, towel, or allow to drain for five minutes if using a no-rinse solution.
- Place pliers on rack or cassette and load sterilizer according to manufacturer's instructions. Loading method should allow plier tips to remain open during sterilize cycle.
- After sterilization cycle is complete, lubricate pliers with a silicon (non-petroleum) lubricant. DO NOT use tap water during any sterilization process and always dry instruments whenever they are rinsed.

Chemclave – (Unsaturated Chemical Vapor)

- Clean in an ultrasonic unit for 10 minutes with a no-rinse general purpose solution with an included rust inhibitor. Keep tips open during cleaning.
- Dry instruments with a compressed air blast, towel, or allow to drain for five minutes if using a no-rinse solution.
- Load pliers on tray placing layers of paper towels between instruments. Loading method should allow plier tips to remain open during sterilize cycle.
- Sterilize according to manufacturer's instructions.
- After sterilization cycle is complete, depressurize equipment and allow pliers to cool.
- Remove instruments and make sure they are dry prior to storage.
- Lubricate pliers with a silicon lubricant. DO NOT use tap water during any sterilization process and always dry instruments whenever they are rinsed.

Warranty

APEX Series™/RMO® instruments

Autoclave

Because of the high levels of moisture in the autoclave process, this method can be damaging to ferrous plier tips and is not generally recommended unless instruments are 100% stainless steel or tungsten carbide inserted.

- Clean in an ultrasonic unit for 10 minutes with a no-rinse general purpose solution with an included rust inhibitor. Keep tips open during cleaning.
- Dry or drain instruments and dip in instrument milk.
- Load pliers on tray. Loading method should allow plier tips to remain open during sterilize cycle.
- Sterilize according to manufacturer's instructions.
- After sterilization cycle is complete, depressurize equipment and allow pliers to cool.
- Remove instruments and make sure they are dry prior to storage.
- Lubricate pliers with a silicon lubricant. DO NOT use tap water during any sterilization process and always dry instruments whenever they are rinsed.

Cold Sterilization

CDC and ADA guidelines federally mandate the use of heat sterilization for instruments used in dental care. Many professional offices use cold sterilization/ high level disinfectants for holding solutions and processing of heat sensitive items. If your office uses these types of products, here are some recommendations for avoiding damage to your pliers:

- Always ultrasonically clean prior to immersion in high level disinfectants and cold sterile solutions using the same guidelines as specified in heat sterilization methods.
- If using glutaraldehyde solutions, use only those that are non-acidic in composition and include a rust inhibitor.
- Avoid contact with quarternary ammonium compounds and iodophors.
- Keep plier tips open in liquid. Avoid immersion overnight in these chemical solutions.
- If solutions require dilution, do not use tap water. Use distilled, RO, or filtered water free from errant chemicals.
- Dry instruments immediately after rinsing.
- Lubricate frequently with a silicon-based lubricant.

equipment

Crystal Mill, Colorado



Notes, Quotes, & Anecdotes

See the man - Rocky - a man who has the
ability of saying so much with so few words.

You may think going back to see your twin
brother is just your ordinary day.

I've learned that you could never go to a
place from a distance.

I've learned that you can't go right to see
you've never seen a day in your life.

I've learned that money doesn't buy class.

I've learned that the eye, like the heel, always
finds its way.

I've learned that the one who keeps his words
in his pocket and finds them tomorrow he may have
taken them.

I've learned that when you plan to get even with
someone, you die by getting that person down
with you.

equipment

WELDER



660-XP Multi-Purpose Welder

The 660-XP Multi-Purpose Welder is a small, versatile, economical chairside unit created to fulfill the multi-purpose requirements of appliance fabrication. It occupies minimum counter space and its light weight makes it appropriate for chairside or mobile use. Electrodes align automatically and accessories add versatility to appliance fabrication. Black color only. It carries the CE mark, which satisfies the most stringent technical and safety regulations.

Electrical, size and weight data

- Solid state circuitry
- Size: 6 1/2" wide x 10 1/2" deep x 6 7/8" high (16.5cm x 26.7cm x 17.4cm)
- Net weight 8 lbs. 12 oz. (4.0 kg)
- Shipping weight, 13 lbs. (5.9 kg)

Functions

- Welds with four welding heats and self-centering electrodes
- Electro-solders with turret carbon tip and cables
- Anneals with plug-in jack
- Heat-tempers and stress-relieves with cables

Annealing



Soldering



Spot Welding




Heat-tempering






Plug Pattern

	J00060	North America	110-125V, 60HZ
NO CORD	J00064	No Cord	220-250V, 50-60HZ
	J00064-1	Europe, Korea	220-250V, 50-60HZ
	J00064-2	Italy	220-250V, 50-60HZ
	J00064-3	Australia	220-250V, 50-60HZ
	J00064-4	United Kingdom	220-250V, 50-60HZ
	J00064-5		220-250V, 50-60HZ

Miscellaneous Accessories 660-660-XP Welder

	Order Number	Package Contains
 Carbon tip for auxiliary cables	H00083	2
 Metal tip and vise for auxiliary cables	H00091	1
 Metal tip and carbon tip holder for auxiliary cables	H00092	1
 Lower ball electrode	H00101	1
 Lower soldering electrode	H00102	1
 Lower anvil electrode	H00103	1
 Lower pointed electrode	H00104	1
 Upper grooved electrode	H00105	1
 Upper electrode for carbon tip	H00106	1
 Upper blunt electrode	H00107	1
 Upper pointed electrode	H00108	1
 Carbon tip; use with H00106 electrode	H00109	3
 Upper turret with electrodes	H00112	1
 Lower turret with electrodes	H00113	1
 Fuse for J00060, J00059	H00500	1
 Fuse for J00641, J00642, J00643, J00644	H00501	1
 Wrench for electrodes	H00509	2
 White knob for 660 Welder	H00506	1




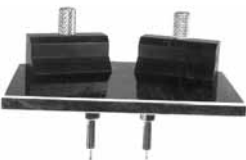


Miscellaneous Accessories 506-600-620 Welder

 Copper turret assembly	H00018	1
 Upper pointed electrode	H00044	1
 Lower pointed electrode	H00043	1

Universal Electrodes - extra long-cut, bend to shape for older welders

 Upper	H00035	2
 Lower	H00036	2

Miscellaneous Accessories 660-660-XP Welder

	Order Number	Package Contains
 <p>Auxiliary Cables</p> <ul style="list-style-type: none"> For auxiliary functions of soldering, annealing, heat-tempering and stress-relieving with RMO® equipment Cables, complete with brass tips, vise tip and carbon soldering tip 	J00431	1 pair
 <p>Annealing Jack</p> <ul style="list-style-type: none"> For annealing (Heat Softening) stainless steel prior to forming loops and bends 	J00432	1
 <p>Auxiliary Plug-in Vise</p> <ul style="list-style-type: none"> Replaces one cable when a stationary grip is required on wire to solder on an accessory Two vises clamp arch wire 	J00433	1
 <p>Heat-Treat Table</p> <ul style="list-style-type: none"> Specially designed for the 660 welder For heat-treating (Temper-Hardening of Elgiloy® or stress-relieving of stainless steel) 	J00427	1
 <p>Replacement Vise Assembly</p> <ul style="list-style-type: none"> For J00427 Heat-Treat Table 	H00507	1
 <p>Sandpaper Disc for 660-XP Welder</p> <ul style="list-style-type: none"> Prevents debris from falling into the auxiliary receptacles Used to clean soldering tips of dried flux and solder. Place on top of welder under auxiliary plug-in units 	H00045	5



RMO® Silver Solder

Rectangles

Size	Order Number	Package Contains
3.1mm x 4mm	H00116	100 pieces
3.1mm x 6mm	H00117	100 pieces

Bar Strips -

Standard

0.6mm x 3.0mm x 3" (7.6cm)	H00021	4 strips
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Heavy

(for commercial lab equipment)

1.0mm x 3.0mm x 3" (7.6cm)	H00020	4 strips
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Wire - 5 pennyweight (.25 oz.) spool

28 ga. - .013"	H00025	1 spool
25 ga. - .018"	H00024	1 spool
22 ga. - .025"	H00119	1 spool
20 ga. - .032"	H00049	1 spool

Silver solder melts at 1125° F (607°C)



Auxiliaries for soldering

True-Chrome® Flux

Paste Flux for flame soldering, 1oz.

J00040 1

Fluid Flux for electro-soldering, 1 oz.
(not for flame soldering)

J00041 1



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termsandconditions

General Terms and Conditions

All prices, terms and conditions applicable to orders of RMO® products ("RMO® Products" or the "Products") are subject to change without notice.

All orders placed with an RMO Sales Representative or directly with RMO, are subject to acceptance and approval at our home office in Denver, Colorado in accordance with these terms and conditions and such other terms and conditions as may be in effect on the date an order is received.

All orders placed with an RMO subsidiary or affiliated company at their national offices in France and Japan are subject to acceptance and approval by such RMO subsidiary or affiliated company in accordance with their published terms and conditions or such other terms and conditions as may be in effect on the date an order is received.

All orders placed with authorized RMO dealers at their offices (to be filled by such dealers) are subject to acceptance and approval by such RMO dealers in accordance with their published terms and conditions, including prices, and such other terms and conditions as said dealers may specify.

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Because orthodontic techniques and materials change and because its product line is constantly being improved, RMO reserves the right to improve, modify, or discontinue Products at any time, or to change specifications without notice.

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RMO reserves the right to change prices at any time without notice. Residents of Canada will be billed in Canadian dollars. All other customers will be billed in United States dollars.

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All prices are FOB Denver, Colorado. Shipping and handling charges will be shown as a separate item on the invoice. All products are shipped FOB Denver, Colorado, except shipments to Canada. Title to goods shipped to Canada will pass when received in Canada.

Ordering

There is a minimum \$25.00 (U.S. dollars) order. RMO does not ship COD.

Payment

- Net within thirty (30) days from date of shipment.
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- Products returned must be accompanied by an invoice and letter or other writing explaining the specific reason or reasons for the return.
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- Returns must be sent shipping charges or post-charge prepaid and insured for full invoice value. RMO cannot accept liability for loss of or damage to Products during shipment.
- At the option of RMO, certain Products returned for credit may be subject to a restocking charge.

Exceptions to the 90 day return privilege are:

- "Ortho-Jel®" is a non-returnable Product. All shipments of this Product are considered firm and final.
- Custom-made or special non-standard products, such as, but not limited to "S" numbers, are not returnable.
- All prewelded attachments including standard, special placement, angulations and modified or incomplete materials, are not returnable.
- Band and bonding-base trades are not returnable.
- All books, Millenium® products, software products, and adhesive products are not returnable.

Products being returned that have been exposed to blood, body fluids, or body tissue must be decontaminated prior to return per OSHA Section 29 CFR 1910.1030.

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For more information and ordering:
Please call 1-800-RMO-ORTHO or 303-592-8200.

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EN ISO 13485
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RMO Europe certified to:

EN ISO 13485
Council Directive 93/42/EEC (Annex V and VI)

Registered Trademarks

RMO, 3D, Penta-Morphic, Ricketts, Bendaloy, Bioprogressive, Elgiloy, Mini-Taurus, Synergy, Dentist Athletes Hall of Fame, E-Ceph, E-cephalometrics, FIXED/REMOVABLE, Jiffy Orthodontic Evaluation, Kussick Orthopedic Incline, LUXI, Millenium, My T Guard, Ortho-Jel, Orthonol, RM, Rocky Mountain, Spring Gear, SWLF, Synergy fx, Synergy LUX, Thermaloy, Trimorphic, TRU-CHROME, Versa T, Wilson, Brace Yourself See Your Orthodontist, FLI, FSC, Friction Selction Control, Multit-P, Multit-T, PurePak, RMODS, RMO Diagnostic Services, RMO Early Breathing Enhancement Orthodontics, Rocky Mountain Orthodontics Data Services, SWLF Synergy R, Synergy R, The World's Oldest Synergistic, Bioprogressive, Breathing Enhancement Orthodontic Company.

United States Patents

5133740, 5158452, 5443384, 5470228, 5616026, 5746592, 5779470, 5871350, 5885073, 6086364, 6428314, 6478579, 6846178, 7247018, 7695277

Some patents listed have international counterparts. Other U.S. and foreign patents pending.

www.rmortho.com

One new development we are very excited about is our new website. We are proud of our new site that covers product ordering, new developments in orthodontics, upcoming events and seminars. Our Web address is www.rmortho.com—please visit us and order online.

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post-script



All aboard the Rocky Mountain train.

Notes, Quotes and Anecdotes

"Anybody who has experienced love knows that it comes first; it's a new beginning... If you ever in your life had a bright idea, or a new instinct, or a new change of heart, make this the cornerstone of your understanding of the universe and you will understand that the universe begins with creation. And it ends in incarnation, because that's the experience of every potent and creative man in the world... If the spirit moves you, you will see how simple things are. Love begins, and hope keeps you going, and faith. And in the end, your grandchildren will bless you."

"We tend to overlook the fact that many people fall in love with their being victims of life, and just as many people fall in love with success. By taking it for granted that success is the only desire of man, we deprive ourselves of the means to study the laws of the good life."

Eugen Rosenstock-Huessy Bookstore

Eugen Rosenstock-Huessy was born in Fulda, Germany in 1888, the son of a Lutheran pastor. He was a member of the German Intelligence Bureau and received his Ph.D. in Philosophy from the University of Bonn. In 1918, he was imprisoned for his political views. While in the workhouse, he wrote and published his first book, *War and the World*. His first two books, *War and the World* and *Philosophy of Language*, were published in the 1920s. His later work has been widely considered as "classic."

For the next few years he worked for Daimler-Benz, where he founded the first factory magazine in Germany. He also founded and headed the *League of Labor of Workmen*, a non-political labor union. During the World War I, he worked for the Association for Adult Education. He organized voluntary work service camps which brought together workers, farmers and students. These and subsequent similar activities in the US have been described as forerunners of CCC camps and the United States Peace Corps.

Immediately after Hitler took power over Germany, he came to the US to teach. After three years at Harvard he joined the faculty of Dartmouth College, retiring in 1957. He died in 1973.

His teaching and writing have been perpetuated by the Hugo Book and Rosenstock-Huessy Fund.

Excerpts by Eugen Rosenstock-Huessy used courtesy of Argo Books, www.argobooks.com

RMO

Post-Script

In the Introduction of this catalog we mentioned several people who were instrumental in the beginning and ongoing success of RMO. However, there are many others who also contributed their talents, hard work and dedication, both to RMO and the dental/orthodontic industry throughout the years.

We would like to be able to highlight the interesting and sometimes serendipitous manner in which past or current team members have contributed to RMO. Because this is not possible to do, we simply present here RMO's current Team Roster.

This roster notes the number of years each one of them has achieved with RMO. It dramatically signifies an amazing quality of commitment and hard work that is unprecedented in business today. It is a privilege and honor to be associated with so many fine people. We look forward to continuing in this tradition for another **"Seventy-Five Years"**.



Martin Brusse

72 YEARS

Thayer (Bay) Brunson

59 YEARS

Martin Brusse

41-45 YEARS

Robert Sailer

Lyn Turner

36-40 YEARS

Betty Erickson

L. Pat Fernandez

Dave Huculak

Elizabeth Hurd

Carolyn Pierce

Nina Rodriguez

Oranell Wills

31-35 YEARS

Jody M. Allen

Robert Allen

H. Katherine Clark

Yvonne Crumpton

Waltereen Diggins

Vernon Donaldson

Princess Gray

Deborah Hamlin

Grace Jones

Sandra Jones

Kim Kimura-Hoversten

Ellouise Laude

Betty Laymond

Luann Lucero

Lucy Martinez

Ruby McClow

Celeste Neiman

James Perkins

Kenneth Raine

Jorgeann Siegrist

Vickie Violi

26-30 YEARS

Caroline Brooks

Larry Brown

Barbara A. Brusse

Eric Burrows

Mary Cardenas

Priscilla Cruz

Claudia Donaldson

Christine Garduno

Gin Haug

Barbara Hernandez

Chia Lo

Stacy McIlravy

Maylee Muas

Betty Myles

David Poland

Juliana Sack

Daphne Upchurch

Neng Yang

21-25 YEARS

Linda Critchfield

Carin Davis

Stephen Dolph

Celia Enbody

Jody W. Hardy

Lan Hinh

Tim King

Bruce Laws

Bret Perkins

Bee Xiong

16-20 YEARS

Renee Armijo Stanton

Susan Covillo

LaDonna Easter

Patterson Hall

Yong Lam

Gay Laws

Chong Lee

Xiang Lee

Diana Perkins

Delma Salazar

Michael Stevens

Brenda Umstead

Tammy Umstead

Kesar Ung

Tony Zakhem

11-15 YEARS

Elizabeth Acevedo

Ljiljana Alagic

Maria Baltierra

Rosemary Boles

Annette Bundy

Arthur Carlson

Jacqueline Flowers

Grigoriy Gleyzer

Lucille Griffith

Hollis Jones

George Kantor

Leon Laub

Cassandra Linder

Lawrence Post

Jeffery Sims

Leroy Trujillo

6-10 YEARS

Dusanka Beheric

Matthew Brown

Chris Castaneda

Graciela Contreras

David Cordova

Angelica Covillo

Klaus Genullis

Raymond Griffith

Estela Hernandez

Scott Hopkins

Jung Keum

Mynell Kiggins

Robert Kozak

Brian Kunde

Kathy Littleton

Nancy Molish

Blanca Morales

Ong Moua

Sheila Navarro

Carmen Peralta

Adam Pollack

Hilda Rodriguez

Kelly Sanborn

Brenda Siebert

Katherine Stevens

Neil Taylor

Chouane Vang

Der Vang

0-5 YEARS

Scott Anderson

Frank Augustine

Cynthia Baca

Jacqueline Birmingham

Robert Bishop

Shane Burden

MaryAnn Castaneda

Ericka Contreras

Juanita Corea

Kris Cravedi

Robert Craver

Daniel Dellafosse

Santino Di Girolamo

Cecilia Dominguez

Manuela Dominguez

Ronald Edens

Lorna Ei

Salwa Elishai

Peter Enneking

Ria Espano

Daniel Fainman

Joe Farra

David Fixel

Barbara Feathers

Brian Felker

Esterlina Franco

Mahdy Ghane

Thomas Graham

Kathryn Hallford

Della Hernandez

Nancy Hopp

Chad Hovatter

Mindy Jacob

Senitta Jones

Chinyi Kang

Jennine Keracik

LuAnne Kohls

Dorothy Kosten

Wha Lee

Ilkhomdjon Madjidov

Christopher Marsh

Anita Martinez

Luz Martinez

Susan Miller

Brian Monney

Michael Montoya

Ryan Moynihan

Ramisha Nelson

Valori Padilla

Breanna Pelleschi

Gregoria Ramirez

Monique Rivas

George Saad

Diana Sarkis

Matthew Savaloja

Hendrieka Savoie

Bryan Smith

Jeffrey Smith

Samantha Starks

Barbara Stubblefield

Robert Tatum

Terry Thomas

Seth Thompson

Maria Torres

Nam Trinh

Adam Wachholtz

Timisha Webb

Annette White

Nathan Wright

Vilena Zelinska

Justin Zuke

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Maxillary tubes



Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
Single with Hook									
0°	-10°	0°	4.5mm		R	A08730	A06730	A08734	A06734
					L	A08731	A06731	A08735	A06735
First Molar									
Single with Hook									
0°	-10°	10°	4.5mm		R	A18750		A18754	
					L	A18751		A18755	
Second Molar									
Single with Hook									
0°	-10°	0°	3.5mm		R	A08732	A06732	A08736	A06736
					L	A08733	A06733	A08737	A06737
Second Molar									
Single with Hook									
0°	-10°	10°	3.5mm		R	A18752		A18756	
					L	A18753		A18757	



Mandibular tubes



Angulation	Torque	Distal Offset	Width	Headgear	Right/Left	.018 Arch Slot		.022 Arch Slot	
						On Bases	Tube Only/ On Bands	On Bases	Tube Only/ On Bands
First Molar									
Single with Hook									
0°	-25°	0°	4.5mm		R	A08740	A06740	A08744	A06744
					L	A08741	A06741	A08745	A06745
First Molar									
Single with Hook									
0°	-25°	5°	4.5mm		R	A18758		A18762	
					L	A18759		A18763	
Second Molar									
Single with Hook									
0°	-25°	0°	3.5mm		R	A08742	A06742	A08746	A06746
					L	A08743	A06743	A08747	A06747
Second Molar									
Single with Hook									
0°	-25°	5°	3.5mm		R	A18760		A18764	
					L	A18761		A18765	

