

PRODUCTS CATALOG
7TH EDITION



IOS
Intl. Orthodontic Services

CUSTOMER NUMBER:

Please write your IOS customer number. For faster service, we kindly ask you to use your customer number when ordering.

A BRAND
BUILT ON
TRUST



New Products



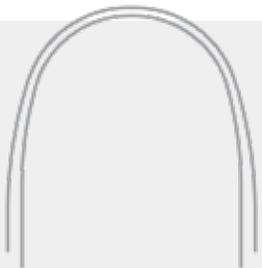
Infinity
with hole
See Page 14



Infinity L
with hole
See Page 15



Royal Tube
See Page 43



X-Broad Form
See Page 47



Tree Hook
See Page 66

New Products



NiTi Open Coil
0.012 x 0.045
See Page 68



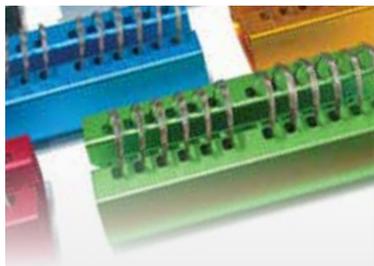
Ultra-Flex
Lingual Retainer
See Page 72



Aligner Pliers
See Page 114



Infinity Coil
See Page 69



Wire Organizer
See Page 138



IOS was created for you!! It exists to provide customers worldwide with high quality products, reasonable prices and excellent customer care. Customer satisfaction is our main goal, which we pursue through total commitment to our products' quality standards. This is the mission we put into practice every day. With IOS as your provider, you will have access to a wide variety of colors, designs, sizes, and materials to suit every age and every need allowing it to become easy to satisfy your patients' needs and preferences; while giving the doctor and patient that perfect smile.

Why Choose IOS?

- QUALITY
- AFFORDABILITY
- ACCESSIBILITY
- FLEXIBILITY

History

Starting off as a small group of orthodontists in 1985, a never ending market was in the making. The demand for the manufacturing of products exceeded expectations worldwide creating an opportunity for the group to become its own company. Indeed it did in 1996 when this creative team created their very first product; The O-Tie Elastic. Just two years later in 1998 this movement became an independent innovative U.S. Manufacturer and supplier of luxury orthodontic products, for orthodontists nationwide and globally through authorized agents naming it the International Orthodontic Services known as IOS.

Quality & Policy

High-precision products create high-precision results. IOS products are meticulously designed, produced, sealed and delivered. Every IOS product is the result of a complete and consistent product protocol. From product engineering to manufacturing, testing, strict quality control, assembly and packaging, to sales reps and customer service representatives, we spare no effort or expense to ensure they perform beyond expectation in order to make treatment a pleasure for you and your practice. Our products are tested, via contemporary methods, for optimum and consistent performance. They are made in the United States with quality guaranteed (FDA and CE certified). To fulfill this purpose, IOS is pursuing steady growth to fully develop its infrastructure in line with industry developments and emerging industry technologies in order to reach new markets through global fair trade participation. IOS constantly pursues all that is new and scientific, and this allows us to anticipate product needs and trends.

TABLE OF CONTENTS

Easily approachable, totally flexible

IOS believes the secret of its success is customer trust in every product carrying the IOS name. Each of our products is a trademark of trust. Each carries our passion and commitment to serving you at the highest available standards. When you see the IOS name on a product, you can be certain you are buying the finest orthodontic products available anywhere.

A rapidly growing global enterprise, IOS is committed to remaining as personal and dedicated as any local supplier. Still run by its owners, IOS has the agility and flexibility that larger corporations don't. We know orthodontists and dealers lead dynamic businesses with dynamic needs. The warm accommodating way we do business meets those needs.

The Firm and our reps are in continuous contact with clients to ensure their satisfaction with our products. Our reps can also visit or email you regularly to present monthly information giving you a constant update on our current or new products. IOS is committed to providing the easiest and fastest means of communication with clients, providing our sales reps with the proper means to conduct sales and receive orders worldwide.



TADs *p8*

Bracket Systems *p18*

Bands *p36*

Wires *p44*

Auxiliaries *p64*

Elastomerics *p76*

Intra-Extra Orals *p86*

Adhesives *p96*

Instruments *p102*

Miscellaneous *p122*





Intl. Orthodontic Services

HOME OFFICE

International Orthodontic Services

12811 Capricorn St

Stafford, TX 77477 USA

Phone: +1 832 342 9487

Fax: +1 281 340 4764

Email: info@iosortho.com

FOR ORDERING

Phone: +1 832 342 9487

Fax: +1 281 340 4764

Email: order@iosortho.com

Online: www.iosortho.com

Follow us on:

 [iosortho](#)

 [iosortho](#)

 [ios.ortho](#)

 [iosortho](#)

International Orthodontic Services 2023.

All rights reserved.

TADs Main Accessories

INFINITY Expander - MARPE

INFINITY - Hex head TAD

INFINITY L - Hex head TAD

INFINITY X - Cross head TAD

Templant - Temporary restoration TAD



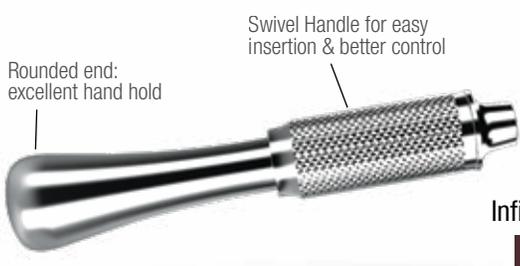


ORTHODONTIC ANCHORAGE SYSTEM

Slim design; minimizes root & bone damage, No pilot-hole is needed; self-tapping and self-threading screw.



Infinity case For storage & sterilization
Item # 20-300



Rounded end: excellent hand hold

Swivel Handle for easy insertion & better control

Infinity handle:
Item # 20-201

Mini Handle*
Item # 20-210



Used with slow speed attachment

Press to release the slow speed attachment

* Must order with Slow Speed Attachment

how to place a mini implant in 8 steps



1 Prepare the area by applying a topical antiseptic such as Chlorhexidine



2 Use the desired anesthetic agent either as topical or local



3 Locate the implant insertion point using a fine explorer



4 With the implant loaded on the handle, insert the implant initially perpendicularly to the bone surface



5 As the implant is going inside the bone, start tilting the handle about 20° toward the occlusion



6 Once the implant stops progressing, tweak the handle and the implant head will disengage



7 Take a PA to document implant position



8 You can load the implant immediately with forces less than 300 gm



before

after



new

INFINITY *Expander*

IOS infinity Skeletal expander is a uniquely designed surgical RPE used in patients with severe narrow maxilla. The surgical expander has 4 incomplete holes with guided surfaces for easy implants insertion. Each hole has two wings to allow expander removal in emergency cases by tweaking the expander sideways.

IOS Surgical Skeletal Expander is an excellent alternative to traditional SARPE procedure for qualified patients.

Must be used with Infinity L TADs #20-131 / #20-132

Item #	Size	Full Turn	Maximum Expansion
19-533-100	7 mm	0.8 mm	6 mm
19-533-101	9 mm	0.8 mm	8 mm



The unique incomplete-hole-adesign will provide enough support to hold the mini-implants, and in the same time allow an easy emergency removal of the mini implant.

The implant's holes are within the expander's body for extra support and to minimize the expander's size.

Precision engineered guiding surfaces to allow straight and parallel insertion of 4 mini implants.



Surgical Expansion Without a Surgery

REAL CASE TREATED BY DR. WAEL KANANN DDS MSD



6 months after expansion, notice how the diastema is closing by the force of the trans-septal fibers

Patient started orthodontic treatment with Pactive self-ligating bracket without bonding the incisors

Final results with cross bite correction

Patient is 21 year old with braces history and a cross bite

6 weeks after expansion, notice 2 mm diastema

* To insert the mini implants, we recommend to use a mini handle or a slow speed attachment with 50 RPM.



Item # 20-220
Slow Speed Attachment



Mini Handle*
Item # 20-210

- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

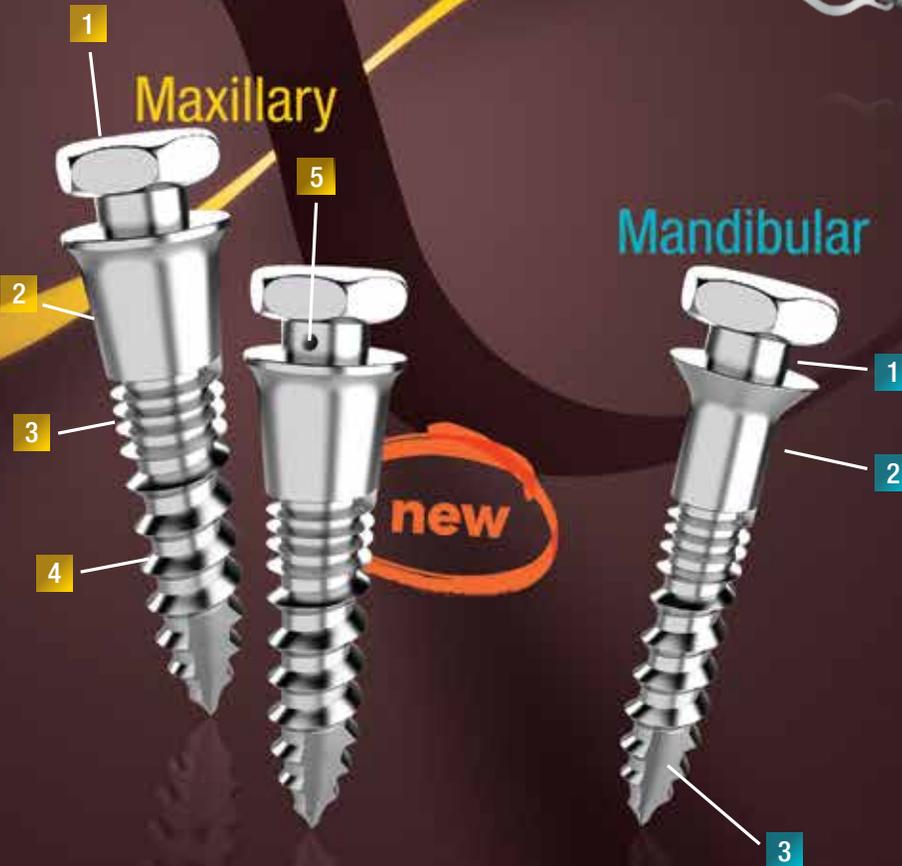
INFINITY™

RECOMMENDED TO USE
Use with infinity coil
check page 69



Maxillary

Mandibular



- 1** Hexahead; secure lock with the handle for accurate insertion
 - 2** Slightly tapered neck
 - 3** Double threaded screw part; maximum surface contact in cortical bone area
 - 4** Round area for compact contact with bone
 - 5** Hole size 0.5 mm
The hole will allow a ligature wire to be secured in the in the implant head, minimizing unwanted emergency visits from patients
- 1** Low head; for minimal cheek irritation
 - 2** Ultra-Smooth neck for perfect screw-gingiva relationship
 - 3** Shallow notch for easier initial screw placement; SELF-TAPPING



Blade
Item # 20-230

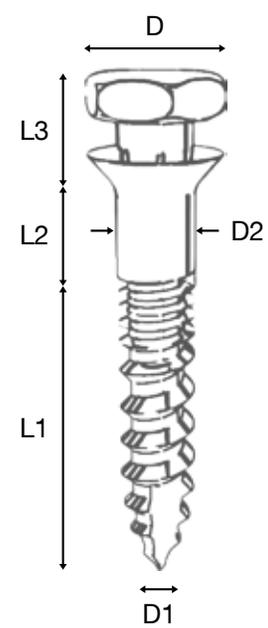


Item # 20-220
Slow Speed Attachment - Short



Item # 20-222
Slow Speed Attachment - Long

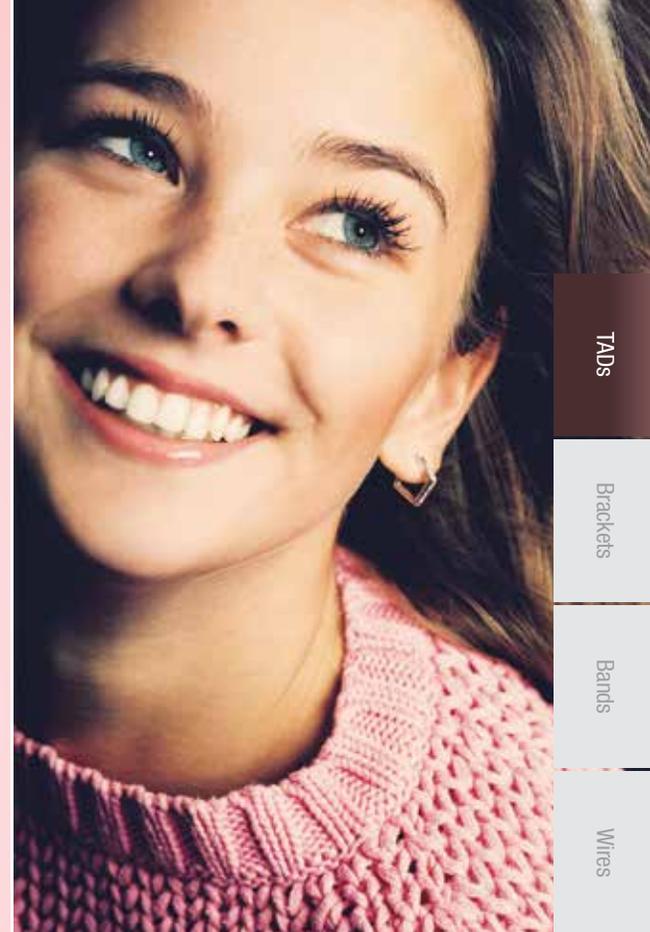
Available in 2 lengths:
- Maxillary 8.6 mm
- Mandibular 6.5 mm



Infinity	Item #	D1	D2	L1	L2	L3	D	Hole Ø
Maxillary	20-100	1.5 mm	1.9 mm	7.1 mm	1.5 mm	1.4 mm	2.2 mm	N/A
Maxillary	20-102	1.5 mm	1.9 mm	7.1 mm	1.5 mm	1.4 mm	2.2 mm	0.5 mm
Mandibular	20-101	1.3 mm	1.3 mm	5.5 mm	1.0 mm	1.7 mm	2.2 mm	N/A

ORTHODONTIC ANCHORAGE SYSTEM

Slim design; minimizes root & bone damage No pilot-hole is needed; self-tapping and self-threading screw.



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra Orals

Adhesives

Instruments

Miscellaneous

INFINITY L™



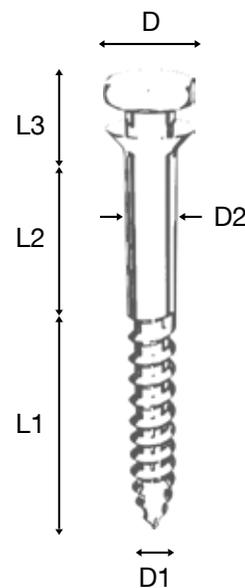
Hole size 0.5 mm
The hole will allow a ligature wire to be secured in the in the implant head, minimizing unwanted emergency visits from patients

new

Use with Infinity surgical expander Item #20-132



LONG NECK FOR THICK SOFT TISSUE AREA



Infinity L	Item #	D1	D2	L1	L2	L3	D	Hole Ø
Without hole	20-131	1.45 mm	1.5 mm	7 mm	4 mm	2.57 mm	2.10 mm	N/A
With hole	20-132	1.80 mm	1.8 mm	7 mm	4 mm	2.57 mm	2.10 mm	0.5 mm

INFINITY X™

Maxillary

Mandibular

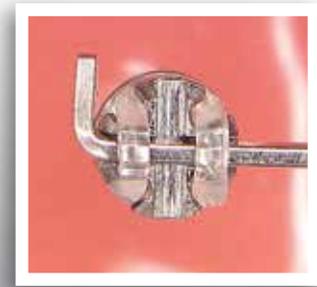


- > A unique head design to accept wire engagement of sizes up to .019x.025
- > Great success rate
- > No pilot-hole is needed; self-tapping and self threading screw
- > Available in two sizes for Maxillary & Mandibular application

Infinity X Blade
20-232 which can be used with the regular infinity handle.



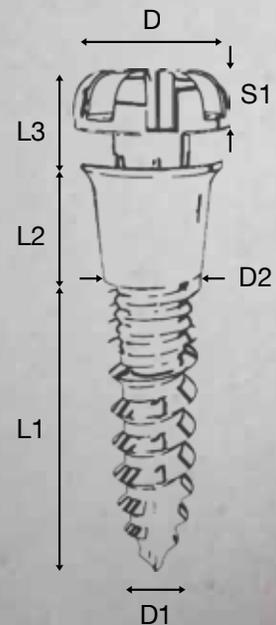
Slow Speed Attachment
20-221



Unique head design to accept elastic & stainless steel ligature ties

Available in 2 lengths:

- Maxillary 8.6 mm
- Mandibular 6.5 mm



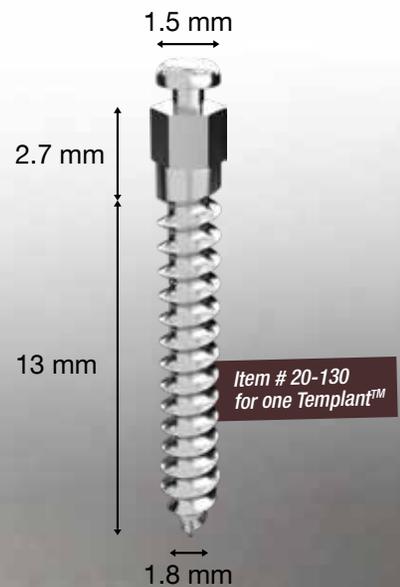
Infinity X

	Item #	D1	D2	L1	L2	L3	D	S1	S2
Maxillary	20-120	1.50 mm	2.00 mm	7.10 mm	1.15 mm	2.37 mm	2.95 mm	0.50 mm	0.50 mm
Mandibular	20-121	1.25 mm	1.30 mm	5.50 mm	1.00 mm	2.57 mm	2.95 mm	0.50 mm	0.50 mm

TEMPLANT™

A revolutionary design to put a smile back on kids' faces.

- > Secure enough to hold temporary restoration, but will not osteo-integrate.
- > Extra Slim design; Keeps Templant within cortical bone and minimizes bone damage.
- > No pilot-hole is needed; self-tapping and self-threading screw.



Item # 20-130 for one Templant™



Templant is only 1.8 mm in diameter for easy and accurate insertion

TADS
Brackets
Bands
Wires
Auxiliaries
Elastomerics
Intra-Extra Orals
Adhesives
Instruments
Miscellaneous

BRACKETS

Pactive - Metal Self-ligating Bracket

Razor Line - Metal Bracket

Majestic Line - Metal Bracket

Royal Line - Gold Bracket

Phantom Luxe - Monocrystalline Bracket

Phantom Plus - Polycrystalline w/ silver slot Bracket



INNOVATIVE BRACKET KIT

IOS is pleased to introduce its newest kit design for better bracket storage and patient delivery. Each kit keeps your brackets in an individual storage area so you can use them as needed. Each kit stores your brackets in a sealed and clean environment until patient is ready for bonding. Its new look Enhances your patient presentation.



Each bracket is stored in an individual place



Open the cover with a scaler



Simply hold the bracket with a tweezer

Self Ligating Brackets



ACTIVE™

A unique self-ligation bracket due to its hybrid clip.

Stainless Steel Brackets *"Sand-blasted mesh, Torque in-the-base"*



RAZOR™

Mini Bracket similar to the Victory® bracket from 3M-Unitek. MIM.



MAJESTIC™

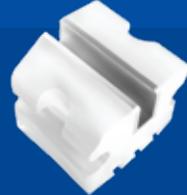
This is the crown jewel of IOS SS brackets. Low profile bracket. MIM.

Ceramic Brackets



**PHANTOM™
luxe**

The next level of aesthetic ceramic brackets. A glare-free Alumina Oxide ceramic bracket with mechanical lock base.



**PHANTOM™
plus**

A silver lined polycrystalline ceramic bracket to reduce friction during treatment. Recommended in extraction cases.

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous



ACTIVE™

Actively Precise

1st Month



2nd Month



3rd Month



4th Month



6th Month



21st Month



REAL CASE TREATED WITH PACTIVE BRACES
BY DR. WAEL KANANN DDS MSD

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

it's neither Passive, nor Active.. it's

PACTIVE™

DUAL MECHANISM TO OPEN THE CLIP FROM THE FACE OR THE BASE.

PERMANENT DENT FOR BRACKET ORIENTATION.

BEVELED ENTRANCE MINIMIZES WIRE FAILURE AND INCREASES INTER-BRACKET DISTANCE.

BODY IS MADE FROM 17-4 STAINLESS STEEL FOR SUPERIOR STRENGTH AND DURABILITY.

SMART CLIP, PASSIVE CLIP WITH LIGHT WIRES, ACTIVE CLIP WITH HEAVY WIRES.

ROUND DESIGN FOR MAXIMUM PATIENT COMFORT.



Pactive is a unique self-ligation bracket due to its hybrid clip. The clip is passive during leveling and aligning stage by using small wires and then gets active when heavier wires are engaged. The hybrid clip combined with the beveled wire entrance offers an ultra-low friction bracket system.



- U Centrals ● L Incisors
- U Laterals ● L Cuspids
- U Cuspids ● L 1st Bicuspid
- U Bicuspids ● L 2nd Bicuspid





Passive Phase

With light archwires, the bracket is passive, resulting in minimal archwire contact and low friction for efficient leveling and alignment



Active Phase

Heavy archwires engage the ligating mechanism, offering full control for finishing and detailing.

Roth 0.022

Individual brackets are sold in pack of 5

			Torque	Angul.	Length	Height	Right .022	Left .022
Max.	Central		+12	5	3.4	2.7	11-110-100	11-110-105
	Lateral		8	9	3.7	2.7	11-110-101	11-110-106
	Cuspid w/ hook		-2	10	3.7	2.4	11-110-102	11-110-107
	Bicuspids w/ hook		-7	0	3.7	2.4	11-110-103	11-110-108
	Bicuspids w/o hook		-7	0	3.7	2.4	11-110-104	11-110-104
Mand.	Incisors		-1	0	2.9	3.2	11-110-110	11-110-110
	Cuspid w/ hook		-11	7	3.7	2.2	11-110-111	11-110-116
	1 st Bicuspid w/ hook		-17	0	3.9	2.2	11-110-112	11-110-117
	1 st Bicuspid w/o hook		-17	0	3.9	2.2	11-110-113	11-110-113
	2 nd Bicuspid w/ hook		-22	0	3.9	2.2	11-110-114	11-110-119
	2 nd Bicuspid w/o hook		-22	0	3.9	2.2	11-110-115	11-110-115

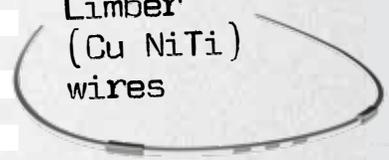
MBT 0.022

Individual brackets are sold in pack of 5

			Torque	Angul.	Length	Height	Right .022	Left .022
Max.	Central		+17	4	3.4	2.7	11-410-100	11-410-105
	Lateral		+10	8	3.7	2.7	11-410-101	11-410-106
	Cuspid w/ hook		-7	8	3.7	2.4	11-410-102	11-410-107
	Bicuspids w/ hook		-7	0	3.7	2.4	11-410-103	11-410-108
	Bicuspids w/o hook		-7	0	3.7	2.4	11-410-104	11-110-104
Mand.	Incisors		-6	0	2.9	3.2	11-410-110	11-410-110
	Cuspid w/ hook		-6	3	3.7	2.2	11-410-111	11-410-116
	1 st Bicuspid w/ hook		-12	2	3.9	2.2	11-410-112	11-410-117
	1 st Bicuspid w/o hook		-12	2	3.9	2.2	11-410-113	11-410-118
	2 nd Bicuspid w/ hook		-17	2	3.9	2.2	11-410-114	11-410-119
	2 nd Bicuspid w/o hook		-17	2	3.9	2.2	11-410-115	11-410-120

RECOMMENDED TO USE
check page 56

Limber (Cu NiTi) wires



Kits 5 to 5

Roth 022 w/ hooks on 3s	11-190-100
Roth 022 w/ hooks on 3s,4s and 5s	11-190-101
MBT 022 w/ hooks on 3s	11-190-102
MBT 022 w/ hooks on 3s,4s and 5s	11-190-103

AMPLE SPACE UNDER TIE-WING FOR EASIER APPLICATION OF STEEL OR ELASTOMERIC TIES.



TORQUE IN THE BASE.

EXTRA MECHANICAL LOCK TO PREVENT CLIP DISPLACEMENT.



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra-Oral

Adhesives

Instruments

Accessories

razor™



EXTREMELY
LOW PROFILE
**FOR MAXIMUM
PATIENT COMFORT.**

└ Precision casting allows for a precise 0.0002" uniform slot tolerance, ensuring consistent and predictable results.

└ Vertical groove.



*0.030" Slot depth
in all brackets allows for
improved torque control.*

-  U Centrals  L Incisors
-  U Laterals  L Cuspids
-  U Cuspids  L 1st Bicuspid
-  U Bicuspids  L 2nd Bicuspid

- Available in: Roth, MBT and Edgewise.
- Mini lower incisors facilitate bracket placement in crowded cases.
- Curved base for better adaptation on the tooth and less bonding failure.



TORQUE IN THE BASE FACILITATES PROPER BRACKET PLACEMENT, FOR MORE CONSISTENT, RELIABLE, ACCURATE EXPRESSION OF BUILT-IN PRESCRIPTION.

Sand-blasted 80 Gauge foil bracket mesh base provides deeper undercuts than conventional mesh pads for greater bond strength.

Individual brackets are sold in pack of 5

Roth

		Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central	+12	5	3.9	1.9	11-115-100	11-125-100	11-155-100	11-165-100
	Lateral	+8	9	3.6	1.9	11-115-101	11-125-101	11-155-101	11-165-101
	Cuspid w/ hook	-2	11	3.9	1.9	11-115-102	11-125-102	11-155-102	11-165-102
	Cuspid w/o hook	-2	11	3.9	1.9	11-115-103	11-125-103	11-155-103	11-165-103
	Bicuspids w/ hook	-7	0	3.8	1.9	11-115-104	11-125-104	11-155-104	11-165-104
	Bicuspids w/o hook	-7	0	3.8	1.9	11-115-105	11-115-105	11-155-105	11-155-105
Mandibular	Incisors	0	0	2.9	1.9	11-135-100	11-135-100	11-175-100	11-175-100
	Cuspid w/ hook	-11	5	3.9	1.9	11-135-101	11-145-101	11-175-101	11-185-101
	Cuspid w/o hook	-11	5	3.9	1.9	11-135-102	11-145-102	11-175-102	11-185-102
	1 st Bicuspid w/ hook	-17	0	3.7	1.9	11-135-103	11-145-103	11-175-103	11-185-103
	1 st Bicuspid w/o hook	-17	0	3.7	1.9	11-135-104	11-135-104	11-175-104	11-175-104
	2 nd Bicuspid w/ hook	-22	0	3.7	1.9	11-135-105	11-145-105	11-175-105	11-185-105
2 nd Bicuspid w/o hook	-22	0	3.7	1.9	11-135-106	11-135-106	11-175-106	11-175-106	

MBT

		Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central	+17	4	3.9	1.9	11-415-100	11-425-100	11-455-100	11-465-100
	Lateral	+10	8	3.6	1.9	11-415-101	11-425-101	11-455-101	11-465-101
	Cuspid w/ hook	0	8	3.9	1.9	11-415-102	11-425-102	11-455-102	11-465-102
	Cuspid w/o hook	-7	8	3.9	1.9	11-415-103	11-425-103	11-455-103	11-465-103
	Bicuspids w/ hook	-7	0	3.8	1.9	11-115-104	11-125-104	11-155-104	11-165-104
	Bicuspids w/o hook	-7	0	3.8	1.9	11-115-105	11-115-105	11-155-105	11-155-105
Mandibular	Incisors	-6	0	2.9	1.9	11-435-100	11-435-100	11-475-100	11-475-100
	Cuspid w/ hook	0	3	3.9	1.9	11-435-101	11-445-101	11-475-101	11-485-101
	Cuspid w/o hook	-6	3	3.9	1.9	11-435-102	11-445-102	11-475-102	11-485-102
	1 st Bicuspid w/ hook	-12	2	3.7	1.9	11-435-103	11-445-103	11-475-103	11-485-103
	1 st Bicuspid w/o hook	-12	2	3.7	1.9	11-435-104	11-445-104	11-475-104	11-485-104
	2 nd Bicuspid w/ hook	-17	2	3.7	1.9	11-435-105	11-445-105	11-475-105	11-485-105
2 nd Bicuspid w/o hook	-17	2	3.7	1.9	11-435-106	11-445-106	11-475-106	11-485-106	

Edgewise

		Torque	Angul.	Length	Height	Right .022	Left .022
Max	Central	0	0	3.9	1.9	11-255-100	11-255-100
	Lateral	0	0	3.6	1.9	11-255-101	11-255-101
	Cuspid w/ hook	0	0	3.9	1.9	11-255-102	11-265-102
	Bicuspids w/ hook	0	0	3.8	1.9	11-255-103	11-265-103
Mand.	Incisors	0	0	2.9	1.9	11-275-100	11-275-100
	Cuspid w/ hook	0	0	3.9	1.9	11-265-102	11-255-102
	Bicuspids w/ hook	0	0	3.7	1.9	11-265-103	11-255-103

Kits 5 to 5

Roth .018 w/ hooks on 3s	11-195-100	MBT .018 w/ hooks on 3s	11-490-100
Roth .018 w/ hooks on 3s, 4s, and 5s	11-195-101	MBT .018 w/ hooks on 3s, 4s, and 5s	11-490-101
Roth .022 w/ hooks on 3s	11-195-102	MBT .022 w/ hooks on 3s	11-490-102
Roth .022 w/ hooks on 3s, 4s, and 5s	11-195-103	MBT .022 w/ hooks on 3s, 4s, and 5s	11-490-103
		Edgewise .022 w/ hooks on 3s, 4s, and 5s	11-192-101

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

MAJESTIC™

PARALLEL
TORQUE
LOW PROFILE.



GENEROUS MESH
BASE FOR BETTER
RETENTION

LOW PROFILE
MEANS LESS
INTERFERENCE

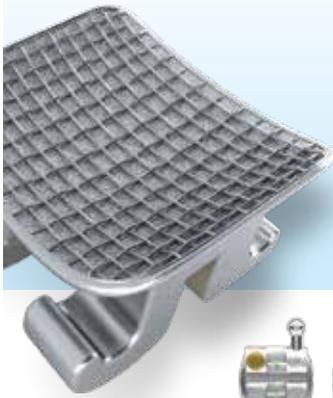


ROUNDED
TIE-WING
FOR PATIENT
COMFORT

VERTICAL LINE FOR
ACCURATE PLACEMENT

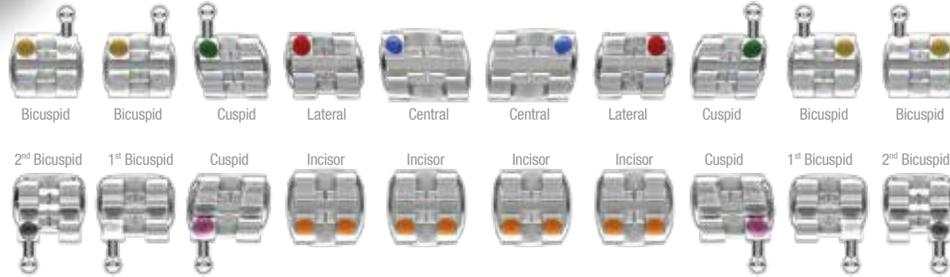
TORQUE IN THE BASE

- U Centrals L Incisors
- U Laterals L Cuspids
- U Cuspids L 1st Bicuspid
- U Bicuspid L 2nd Bicuspid



* POLISHED SANDBLASTED MESH DRAMATICALLY INCREASES THE BONDING STRENGTH BY **25%**

* THIS ENHANCES THE ADHESIVE-TO-MESH BOND STRENGTH AND MINIMIZES CLEANUP AT DEBONDING.



Individual brackets are sold in pack of 5

Roth

		Torque	Angul.	Length	Height	Right .022	Left .022
Maxillary	Central	+12	5	4.3	1.8	11-154-100	11-164-100
	Lateral	+8	9	3.4	2.2	11-154-101	11-164-101
	Cuspid w/ hook	-2	11	3.9	1.8	11-154-102	11-164-102
	Cuspid w/o hook	-2	11	3.9	1.8	11-154-103	11-164-103
	Bicuspids w/ hook	-7	0	3.6	1.8	11-154-104	11-164-104
	Bicuspids w/o hook	-7	0	3.6	1.8	11-154-105	11-154-105
Mandibular	Incisors	0	0	3.2	2.2	11-174-100	11-174-100
	Cuspid w/ hook	-11	5	3.9	2.2	11-174-101	11-184-101
	Cuspid w/o hook	-11	5	3.9	2.2	11-174-102	11-184-102
	1 st Bicuspid w/ hook	-17	2	4.3	2.2	11-174-103	11-184-103
	1 st Bicuspid w/o hook	-17	2	4.3	2.2	11-174-104	11-184-104
	2 nd Bicuspid w/ hook	-22	2	4.3	2.2	11-174-105	11-184-105
	2 nd Bicuspid w/o hook	-22	2	4.3	2.2	11-174-106	11-184-106

MBT

		Torque	Angul.	Length	Height	Right .022	Left .022
Maxillary	Central	+17	4	4.3	1.8	11-454-100	11-464-100
	Lateral	+10	8	3.4	2.2	11-454-101	11-464-101
	Cuspid w/ hook	0	8	3.9	1.8	11-454-102	11-464-102
	Cuspid w/o hook	-7	8	3.9	1.8	11-454-103	11-464-103
	Bicuspids w/ hook	-7	0	3.6	1.8	11-154-104	11-164-104
	Bicuspids w/o hook	-7	0	3.6	1.8	11-154-105	11-154-105
Mandibular	Incisors	-6	0	3.2	2.2	11-474-100	11-474-100
	Cuspid w/ hook	0	3	3.9	2.2	11-474-101	11-484-101
	Cuspid w/o hook	-6	3	3.9	2.2	11-474-102	11-484-102
	1 st Bicuspid w/ hook	-12	2	4.3	2.2	11-474-103	11-484-103
	1 st Bicuspid w/o hook	-12	2	4.3	2.2	11-474-104	11-484-104
	2 nd Bicuspid w/ hook	-17	2	4.3	2.2	11-474-105	11-484-105
	2 nd Bicuspid w/o hook	-17	2	4.3	2.2	11-474-106	11-484-106

Kits 5 to 5

Roth .022 w/ hooks on 3s	11-194-102	MBT .022 w/ hooks on 3s	11-494-102
Roth .022 w/ hooks on 3s, 4s, and 5s	11-194-103	MBT .022 w/ hooks on 3s, 4s, and 5s	11-494-103

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Royal



- A new look that blends with the face.
- Real 24K Gold multi-plated bracket.
- Resistant to wear, peeling or chipping.
- Available in Roth & MBT
- Great for patients with Nickel or Titanium sensitivity.

Individual brackets are sold in pack of 5

Roth

		Torque	Angul.	Length	Height	Right .022	Left .022
Max	Central	+12	5	4.3	1.8	11-153-100	11-163-100
	Lateral	+8	9	3.4	2.2	11-153-101	11-163-101
	Cuspid w/ hook	-2	11	3.9	1.8	11-153-102	11-163-102
	Bicuspids w/ hook	-7	0	3.6	1.8	11-153-104	11-163-104
Mand.	Incisors	0	0	3.2	2.2	11-173-100	11-173-100
	Cuspid w/ hook	-11	5	3.9	2.2	11-173-101	11-183-101
	1 st cuspid w/ hook	-17	2	4.3	2.2	11-173-103	11-183-103
	2 nd cuspid w/ hook	-22	2	4.3	2.2	11-173-105	11-183-105

MBT

		Torque	Angul.	Length	Height	Right .022	Left .022
Max	Central	+17	4	4.3	1.8	11-453-100	11-463-100
	Lateral	+10	8	3.4	2.2	11-453-101	11-463-101
	Cuspid w/ hook	0	8	3.9	1.8	11-453-102	11-463-102
	Bicuspids w/ hook	-7	0	3.6	1.8	11-153-104	11-163-104
Mand.	Incisors	-6	0	3.2	2.2	11-473-100	11-473-100
	Cuspid w/ hook	0	3	3.9	2.2	11-473-101	11-483-101
	1 st cuspid w/ hook	-12	2	4.3	2.2	11-473-102	11-483-102
	2 nd cuspid w/ hook	-17	2	4.3	2.2	11-473-103	11-483-103



* **IOS Gold Store!**

For **gold wires**, check page 62
For **gold auxiliaries**, check page 67, 75

FOR GOLD TUBE, CHECK PAGE 43

Kits 5 to 5

Roth .022 w/ hooks on 3s, 4s, and 5s	11-193-103
MBT .022 w/ hooks on 3s, 4s, and 5s	11-493-101



PHANTOMTM *luxé*

ADVANCES IN MATERIALS,
MANUFACTURING TECHNOLOGIES
& BRACKET DESIGN,
have enabled a new level of performance in the
Phantom brand of aesthetic brackets.



PHANTOM LUXE CERAMIC BRACKETS ARE MADE OF MONOCRYSTALLINE ALUMINA, *AS FINE CRYSTALS*, TO IMPROVE THE INHERENT MATERIAL STRENGTH.



- ↳ *Unique ceramic material for unmatched aesthetics.*
- ↳ *Lowest profile and rounded top shape for unmatched comfort.*
- ↳ *Rounded entry and exit of slot for lowest friction.*
- ↳ *15 degree downdraft on tie wings for safe ligation.*
- ↳ *World's proven mechanical bonding base for excellent bonding strength and easy de-bonding.*
- ↳ *45% less friction compared to other clear brackets.*
- ↳ *Prescriptions: Roth and MBT.*



- U Centrals L Incisors
- U Laterals L Cuspids
- U Cuspids L 1st Bicuspid
- U Bicuspids L 2nd Bicuspid



Individual brackets are sold in pack of 5

Roth

			Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central		+12	+5	3.2	2.1	11-116-100	11-116-104	11-126-100	11-126-104
	Lateral		+8	+9	3.2	2.3	11-116-101	11-116-105	11-126-101	11-126-105
	Cuspid w/ hook		0	+11	3.2	2.2	11-116-102	11-116-106	11-126-102	11-126-106
	Bicuspid w/ hook		-7	0	3.2	2.2	11-116-103	11-116-107	11-126-103	11-126-107
Mandibular	Incisors		0	0	2.9	2.4	11-116-108	11-116-108	11-126-108	11-126-108
	Cuspid w/ hook		-11	+5	3.1	2.2	11-116-109	11-116-112	11-126-109	11-126-112
	1st Bicuspid w/ hook		-17	0	3.1	2.4	11-116-110	11-116-113	11-126-110	11-126-113
	2nd Bicuspid w/ hook		-22	0	3.1	2.4	11-116-111	11-116-114	11-126-111	11-126-114

MBT

			Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central		+17	+4	3.2	2.1	11-136-100	11-136-104	11-146-100	11-146-104
	Lateral		+10	+8	3.2	2.3	11-136-101	11-136-105	11-146-101	11-146-105
	Cuspid w/ hook		0	+8	3.2	2.2	11-136-102	11-136-106	11-146-102	11-146-106
	Bicuspid w/ hook		-7	0	3.2	2.2	11-116-103	11-116-107	11-126-103	11-126-107
Mandibular	Incisors		-6	0	2.9	2.4	11-136-108	11-136-108	11-146-108	11-146-108
	Cuspid w/ hook		-11	+3	3.1	2.2	11-136-109	11-136-112	11-146-109	11-146-112
	1 st Bicuspid w/ hook		-12	+2	3.1	2.4	11-136-110	11-136-113	11-146-110	11-146-113
	2 nd Bicuspid w/ hook		-17	+2	3.1	2.4	11-136-111	11-136-114	11-146-111	11-146-114



* go clear

- DG - Coated Wire, *Page 61*
- Clear SS Ligature, *Page 67*
- Clear Coil, *Page 68*
- Clear Buttons, *Page 75*

Kits 5 to 5

Roth .018 w/ hooks on 3s, 4s, and 5s	11-197-112
Roth .022 w/ hooks on 3s, 4s, and 5s	11-197-113
MBT .018 w/ hooks on 3s, 4s, and 5s	11-497-108
MBT .022 w/ hooks on 3s, 4s, and 5s	11-497-109



Ceramic Bracket Debonding Plier

Item #18-435
check page 113

PHANTOM™ plus

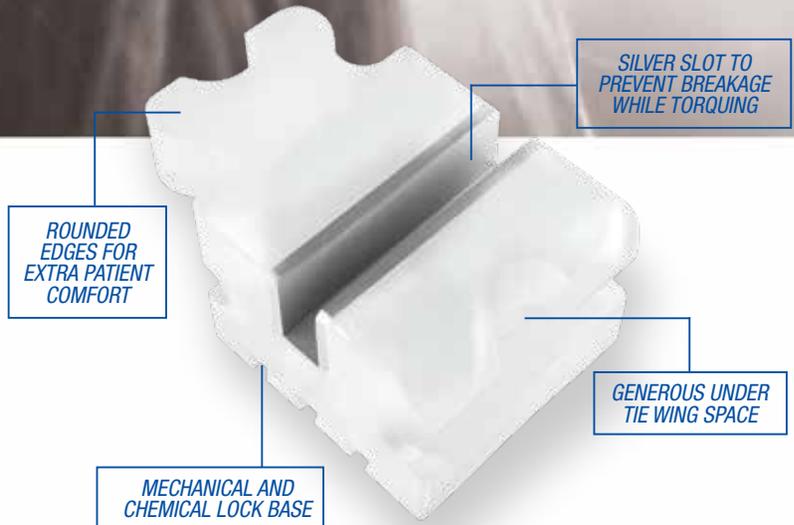


- U Centrals
- L Incisors
- U Laterals
- L Cuspids
- U Cuspids
- L 1st Bicuspid
- U Bicuspids
- L 2nd Bicuspid

NANO COATING; KILLS BACTERIA AND PREVENTS STAINING.

- Polycrystalline Ceramic Bracket
- Silver Lined slot; for less Friction
- Special Base; Better mechanical lock

Available in: Roth and MBT.



Individual brackets are sold in pack of 5

Roth

		Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central	+12	+5	3.9	2.1	11-156-100	11-156-104	11-166-100	11-166-104
	Lateral	+8	+9	3.4	2.4	11-156-101	11-156-105	11-166-101	11-166-105
	Cuspid w/ hook	0	+11	3.5	2.4	11-156-102	11-156-106	11-166-102	11-166-106
	Bicuspid w/ hook	-7	0	3.2	2.4	11-156-103	11-156-103	11-166-103	11-166-103
Mandibular	Incisors	0	0	2.7	2.4	11-156-108	11-156-108	11-166-108	11-166-108
	Cuspid w/ hook	-11	+5	3.4	2.4	11-156-109	11-156-112	11-166-109	11-166-112
	1st Bicuspid w/ hook	-17	0	3.4	2.4	11-156-110	11-156-110	11-166-110	11-166-110
	2nd Bicuspid w/ hook	-22	0	3.4	2.4	11-156-111	11-156-111	11-166-111	11-166-111

MBT

		Torque	Angul.	Length	Height	Right .018	Left .018	Right .022	Left .022
Maxillary	Central	+17	+4	3.9	2.1	11-176-100	11-176-104	11-186-100	11-186-104
	Lateral	+10	+8	3.4	2.4	11-176-101	11-176-105	11-186-101	11-186-105
	Cuspid w/ hook	0	+8	3.5	2.4	11-176-102	11-176-106	11-186-102	11-186-106
	Bicuspid w/ hook	-7	0	3.2	2.4	11-156-103	11-156-103	11-166-103	11-166-103
Mandibular	Incisors	-6	0	2.7	2.4	11-176-108	11-176-108	11-186-108	11-186-108
	Cuspid w/ hook	-11	+3	3.4	2.4	11-176-109	11-176-112	11-186-109	11-186-112
	1st Bicuspid w/ hook	-12	+2	3.4	2.4	11-176-110	11-176-113	11-186-110	11-186-113
	2nd Bicuspid w/ hook	-17	+2	3.4	2.4	11-176-111	11-176-114	11-186-111	11-186-114

Kits 5 to 5

Roth .018 w/ hooks on 3s, 4s, and 5s	11-197-114
Roth .022 w/ hooks on 3s, 4s, and 5s	11-197-115
MBT .018 w/ hooks on 3s, 4s, and 5s	11-497-110
MBT .022 w/ hooks on 3s, 4s, and 5s	11-497-111



Ceramic Bracket Debonding Plier

Item #18-435
check page 113



Phantom Plus brackets combine the aesthetic of ceramic brackets with the low friction of metal brackets.



make it clear

- D.G - Coated Wire, [Page 61](#)
- Clear SS Ligature, [Page 67](#)
- Clear Coil, [Page 68](#)
- Clear Buttons, [Page 75](#)

Molar Band

Molar Kits

Plain Band

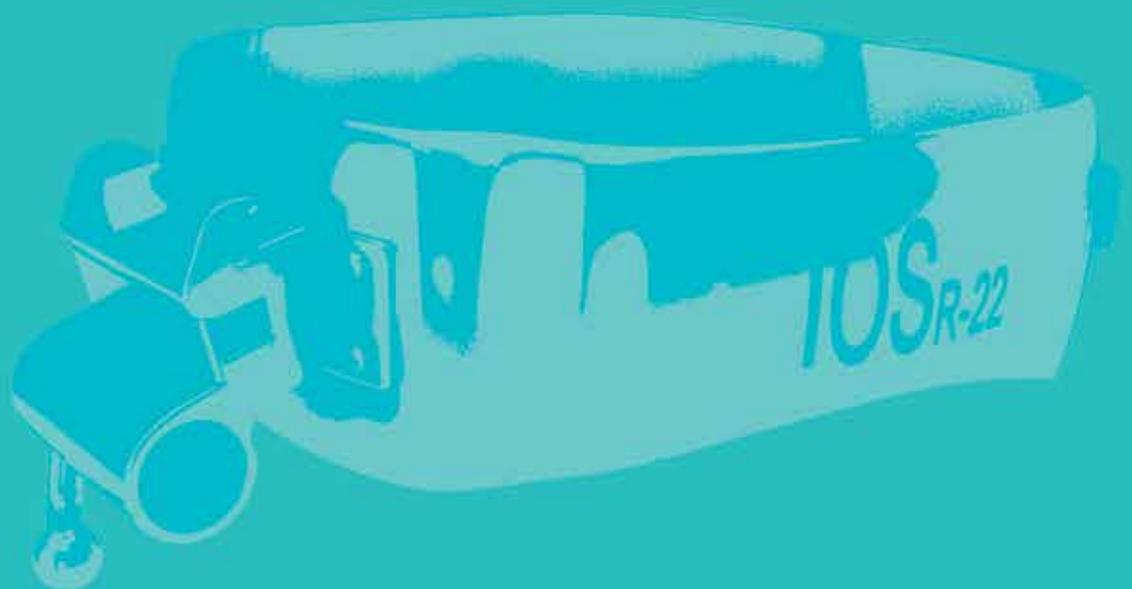
Weldable lingual Attachment

Conversion Chart

Classic Tubes

Mini Uni Tubes

Royal Tube



TRUEBAND™



QUALITY STAINLESS STEEL ANATOMICAL BANDS

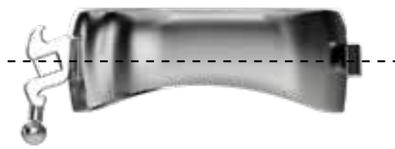
┌ Sand-Blasted interior surface for maximum retention, Rounded edges for maximum patient comfort.

┌ Laser Permanent marking.

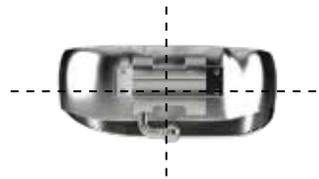
┌ Anatomically contoured for accurate placement.



Lingual attachments are centered mesio-distally



Attachments are centered occluso-gingivally



Buccal tubes are parallel to the occlusal edge

molar bands



Single Tube



Double Tube



Double Tube w/HG



Triple Tube



Cleat



Sheath

True-Band kits contain half-right and half-left bands. You may substitute other sizes as long as the total number remains the same. All assembled bands have a tube with a hook and a lingual attachment.

	Tube Type	Lingual	Torque	Distal Offset	Headgear Tube	Right 0.018	Left 0.018	Kit Code	Right 0.022	Left 0.022	Kit Code	
Roth/MBT	Upper	Single	Cleat	14	10	-	12-431-100	12-431-101	50	12-431-104	12-431-105	51
	Upper	Double	Cleat	14	10	.045"	12-432-100	12-432-101	52	12-432-104	12-432-105	53
	Upper	Triple	Cleat	14	10	.045"	12-433-100	12-433-101	54	12-433-102	12-433-103	55
	Upper	Single	Sheath	14	10	-	12-431-108	12-431-109	56	12-431-110	12-431-111	57
	Upper	Double	Sheath	14	10	.045"	12-432-108	12-432-109	58	12-432-110	12-432-111	59
	Upper	Triple	Sheath	14	10	.045"	12-433-104	12-433-105	60	12-433-106	12-433-107	61
Roth	Lower	Single	Cleat	25	4	-	12-431-102	12-431-103	62	12-431-106	12-431-107	63
	Lower	Double	Cleat	25	4	-	12-432-102	12-432-103	64	12-432-106	12-432-107	65
	Lower	Double	Cleat	25	4	.045"	12-432-112	12-432-113	66	12-432-114	12-432-115	67
MBT	Lower	Single	Cleat	20	0	-	12-441-102	12-441-103	68	12-441-106	12-441-107	69
	Lower	Double	Cleat	20	0	-	12-442-102	12-442-103	70	12-442-106	12-442-107	71
	Lower	Double	Cleat	20	0	.045"	12-442-112	12-442-113	72	12-442-114	12-442-115	73

HOW TO ORDER ASSEMBLED BANDS?

Use the proper band item number followed by the band size, e.g. to order UR Roth18 size 39 w/ single tube and lingual cleat, use 12-431-100-39



Band Organizer
Item #19-299-107



HOW TO ORDER KITS*?

Use the Kit type code followed by the Kit code, e.g. to order lower double HG MBT 22 w/ cleats (introduction kit) 12-412-101-73

Kit Type	Qty	Code
Starter	80	12-412-100
Introduction	150	12-412-101
Professional	300	12-412-102
Master	600	12-412-103

Kits Details

Kit Type	Per Side	31	31+	32	32+	33	33+	34	34+	35	35+	36	36+	37	37+	38	38+	39	39+	40	40+	41	41+	42	42+	43	43+	44	Total
Starter	40	0	0	0	1	2	2	2	3	3	4	4	4	3	3	2	2	2	2	1	0	0	0	0	0	0	0	0	80
Introduction	75	1	1	2	2	3	3	3	3	5	5	5	5	5	5	5	5	4	3	2	1	1	1	1	1	1	1	150	
Professional	150	3	3	4	4	4	5	5	5	9	9	10	10	10	10	10	10	10	10	3	3	3	2	2	2	2	1	1	300
Master	300	6	6	6	6	8	10	10	10	16	16	22	22	24	24	24	22	16	16	6	6	6	3	3	3	3	3	3	600

* KITS CONTAIN HALF RIGHT AND HALF LEFT

- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

PLAIN BANDS

HOW TO ORDER PLAIN BANDS?

Use the proper band number followed by the band size e.g. to order Upper Right size 39, use 12-400-100-39



	Right	Left	Kit Code
Upper	12-400-100	12-400-101	88
Lower	12-400-102	12-400-103	89

HOW TO ORDER KITS*?

Use the Kit type code followed by the Kit code, e.g. to order lower bands (introduction kit) 12-412-104-89

Kit Type	Qty	Code
Introduction	150	12-412-104
Professional	300	12-412-105

Kits Details

Kit Type	Per Side	31	31+	32	32+	33	33+	34	34+	35	35+	36	36+	37	37+	38	38+	39	39+	40	40+	41	41+	42	42+	43	43+	44	Total
Introduction	75	1	1	2	2	3	3	3	3	5	5	5	5	5	5	5	5	4	3	2	1	1	1	1	1	1	1	1	150
Professional	150	3	3	4	4	4	5	5	5	9	9	10	10	10	10	10	10	10	10	3	3	3	2	2	2	2	1	1	300

* KITS CONTAIN HALF RIGHT AND HALF LEFT

Weldable Lingual Attachment



Lugs
Simple way for easier band seating and removing.
Item # 12-599-100

Lingual Cleats
Designed to hold elastics when needed, also acts as a seating lug.
Item # 12-599-101

Button
Weldable lingual buttons. Designed to fit bands perfectly.
Item # 12-599-102

Weldable Lingual Sheath
.072" height to fit TPA securely with indent for locking.
Item # 12-599-103

Weldable Lingual Sheaths with hook
.072" height to fit TPA securely with mesial or distal hook.
Mesial per pack Item # 12-599-104
Distal per pack Item # 12-599-105



Do you have many useless bands sitting around?
 Switch to True Band™ and IOS will exchange your old bands for FREE!**

TRADE-IN PROGRAM

CONVERSION CHART*



Ask your representative for further details.

* IOS is not responsible for the accuracy of this information.

Upper Molar Bands

IOS	31	31+	32	32+	33	33+	34	34+	35	35+	36	36+	37	37+	38	38+	39	39+	40	40+	41	41+	42	42+	43	43+	44
ORTHO ORGANIZER	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
3M UNITEK	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
RMO	9	10		11		12	13	14	16	17	18	20	21	23	26	28	29	30	32	33	34	35	36				
ORMCO STANDARD	6	7	8	9	10	11	12	14	15		17	19		20	23	24	25		28	29	30	31		32			
LANCER	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
GAC		5		6		7		9	11	12	13	15	16	17	19	22		23	26		26	28	29		30	31	32
AMEICAN		1.5	2		2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	9		10	10.5	11	11.5		12	12.5	13	13.5
ORTHO TECHNOLOGY	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
TP	1	2	3	5	6	8	9	11	13	14	16	19	20	22	24	26	27	29	31	32	33	34		35	36		
DENTAURUM	7	8	9	10	11		13	14	16	17	18	20	21	22	24	26	27	28	30	31	32						

Lower Molar Bands

IOS	31	31+	32	32+	33	33+	34	34+	35	35+	36	36+	37	37+	38	38+	39	39+	40	40+	41	41+	42	42+	43	43+	44
ORTHO ORGANIZER	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
3M UNITEK	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
RMO	9	10		11		13	14	15	16	17	18	20	22	24	26	28	29	30	32	33	34	35	36				
ORMCO STANDARD	5	7		10	11	13	14		16	17	18	19	20	22	23	25	26	27	28	29	30	31		32			
LANCER	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
GAC	5	6	7		8	9	10	11	12	14	15	17	18	19	20	22	23	24	26	27	28	29		30	31	32	
AMEICAN	1.5	2	2.5		3	3.5		4	4.5	5		6.5	7	7.5	8		8.5	9	9.5	10.5	11	11.5		12	12.5	13	13.5
ORTHO TECHNOLOGY	31	31.5	32	32.5	33	33.5	34	34.5	35	35.5	36	36.5	37	37.5	38	38.5	39	39.5	40	40.5	41	41.5	42	42.5	43	43.5	44
TP	2	4	6	8		11	12	13	14	16	19	21	22	23	25	27	28	29	31	32	33	34		35	36		
DENTAURUM	9	11	12	14	15	16	17	18	19	20	22		25	27	29	30		31									

** Call us to get more information on this program

- TADS
- Archives
- Bands
- Wires
- Auxiliaries
- Elastomers
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

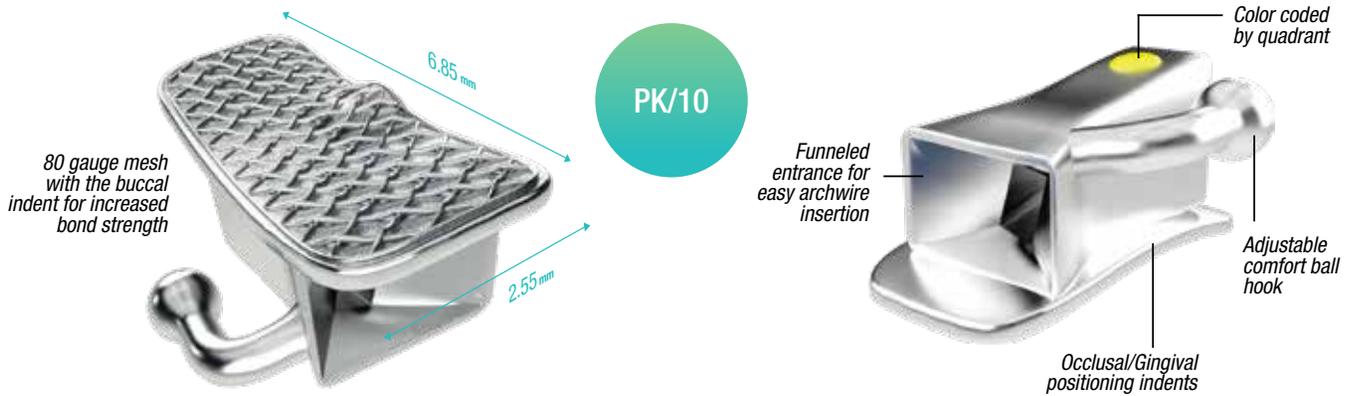


Bondable tubes are available in two series:

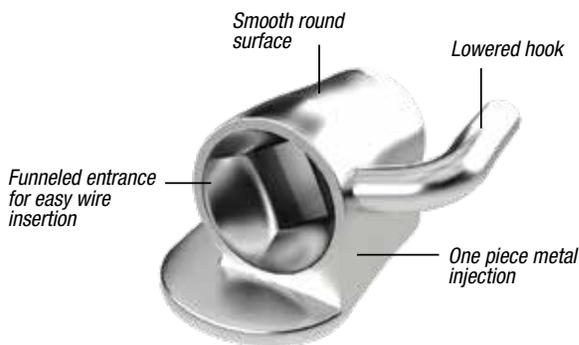
Classic Bondable Tubes

Bondable tubes have a laser welded mesh base with anatomical shape for easier tube placement and better adhesion. The mesh base is micro-etched for retention enhancement. All tubes have a funnel entrance for easier wire placement.

	Prescription	Torque	Distal offset	Length	Right 0.18	Left .018	Right .022	Left .022
Upper	Roth/MBT	-14	10	6.85 mm	12-600-114	12-600-115	12-600-118	12-600-119
Lower	Roth	-25	4	6.85 mm	12-600-116	12-600-117	12-600-120	12-600-121
Lower	MBT	-20	0	6.85 mm	12-600-124	12-600-125	12-600-128	12-600-129



Mini Uni Bondable Tubes



Mini bondable tubes provide an easy alternative to band partially erupted teeth.

	Prescription	Torque	Distal offset	Length	Right 0.18	Left .018	Right .022	Left .022
Upper	Roth/MBT	3	0	3.75 mm	12-600-100	12-600-101	12-600-104	12-600-105
Lower	Roth	-15	0	3.75 mm	12-600-102	12-600-103	12-600-106	12-600-107
Lower	MBT	-10	0	3.75 mm	12-600-108	12-600-109	12-600-112	12-600-113



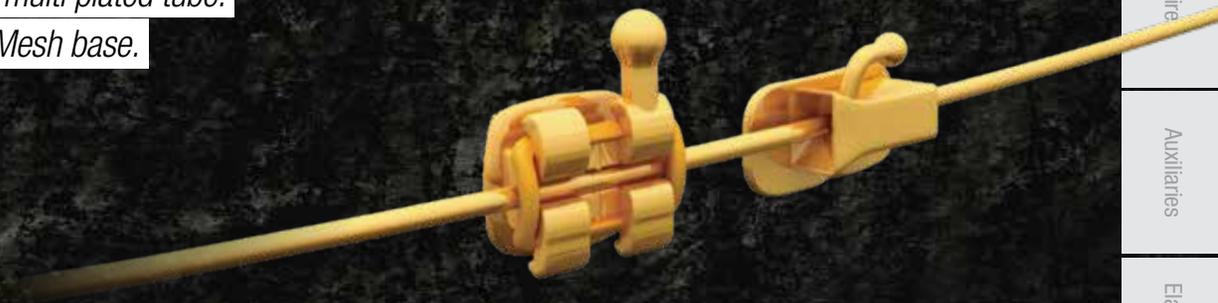
“ IOS buccal tubes are manufactured by Metal Injection Molding “MIM”. With MIM, buccal tubes are produced with smoother surfaces, high accuracy and better stiffness. ”

new

Royal

Think about your Nickel sensitive patient

- Real 24K Gold multi plated tube.
- Micro-etched Mesh base.



PK/1

	Prescription	Torque	Distal offset	Length	Right .022	Left .022
Upper	Roth/MBT	-14	10	6.85 mm	12-600-130	12-600-131
Lower	Roth	-25	4	6.85 mm	12-600-132	12-600-133
Lower	MBT	-20	0	6.85 mm	12-600-134	12-600-135

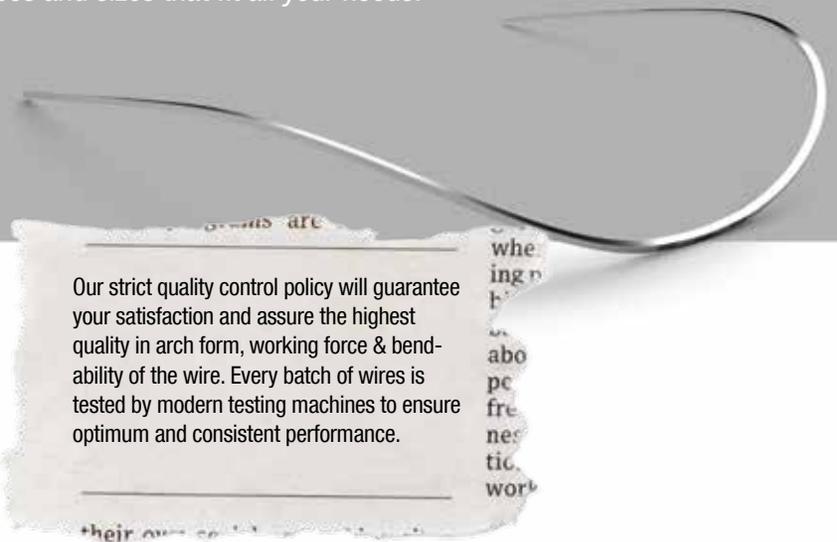
- TADS
- Brackets
- Bands**
- Wire
- Auxiliaries
- Elastomers
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

Stainless Steel arch wires
Retraction Archwires
Brass Posted SS Archwires
Multi Strand Wires
Stainless Steel Straight wires
B-Titanium Wires - TMA
Exceloy Wires
NiTi wires
HA NiTi wires
Copper NiTi archwires
Reverse Curve NiTi wires
Torquing NiTi wires
Zefiro Wires - Bidimension wires
Dual Geometric Wires - Coated wires
Royal wires - Gold Wires





IOS understands that selecting that proper wire during treatment is an essential part of contemporary orthodontics. Thus, we are committed to providing you with a wide variety of wires in different shapes and sizes that fit all your needs.



Our strict quality control policy will guarantee your satisfaction and assure the highest quality in arch form, working force & bendability of the wire. Every batch of wires is tested by modern testing machines to ensure optimum and consistent performance.

ALL WIRES ARE PACKED IN A SEALED PACKAGE TO MAINTAIN CLEANLINESS AND ASSURE A PROFESSIONAL LOOK IN FRONT OF PATIENTS.



MIDLINE IDENTIFICATION

The midline is identified either by a mark or a bend:



Marked Midline

Three Lines for upper, one line for lower

- ▶ IOS SS archwires are midline-etched for permanent identification
- ▶ IOS NiTi archwires are Laser-marked for permanent identification

Dimpled Midline

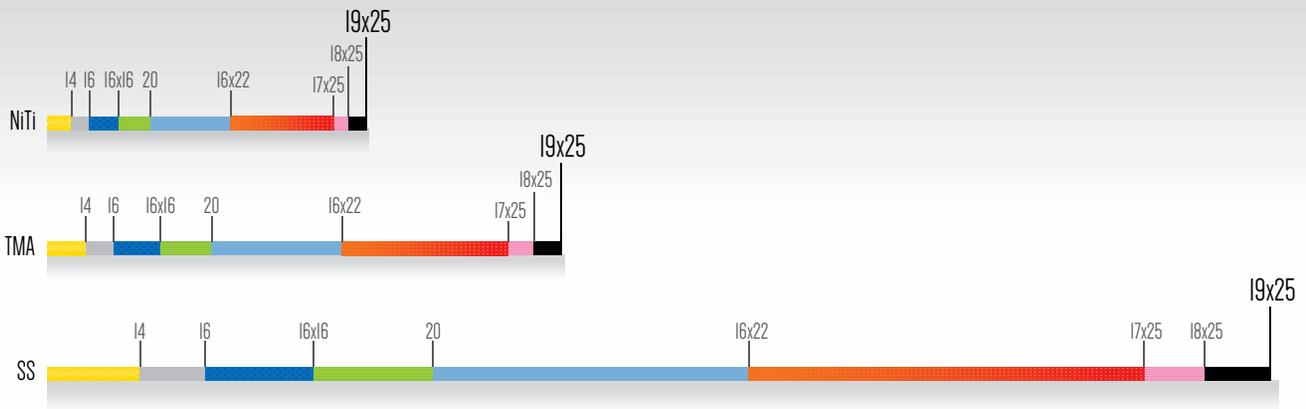
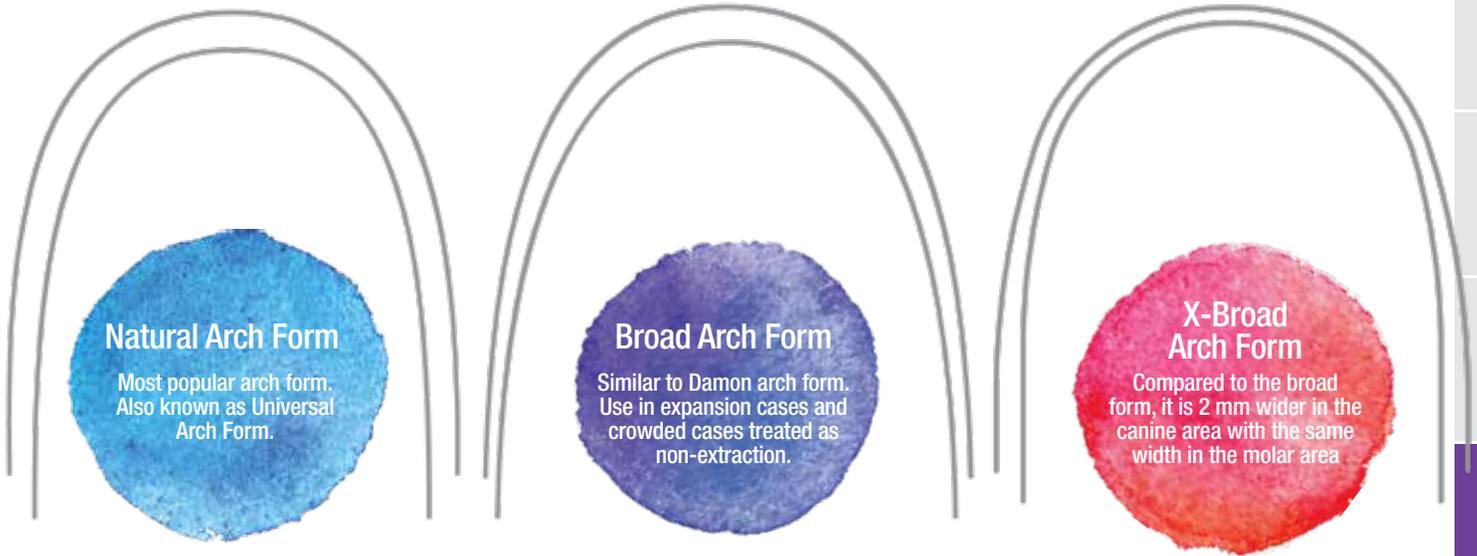
- ▶ Acts as a stop to prevent wire drift
- ▶ Available in NiTi and Thermal NiTi
- ▶ Great for initial stage of treatment



▶ KNOW THE EFFECT OF WIRE SIZE & MATERIAL ON STIFFNESS

ARCH FORMS

Because variation exists from one patient's arch form to another, IOS provides archwires in three popular arch forms.



Wire stiffness comparison guide based on size and material



Wire stiffness comparison scale of different materials "scale from 0 to 1"

- TADS
- Brackets
- Bands
- Wires**
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

Stainless Steel

Stainless Steel Archwires

10 WIRES PER PACK

Manufactured from 304V medical grade stainless steel.



- ▶ Comes in five round and eight rectangular sizes.
- ▶ Available in two types:
 - **Bright Stainless Steel** archwire; Ideal for any treatment phase, most popular type and could be heat-treated for additional strength.
 - **Gold-Tone Stainless Steel**; Heat-treated archwire, 5-10 % higher tensile strength than bright SS archwire, stress-relieved wire that resists distortion and accepts bends without fracture. Great for deep bite cases and torque control.

	NATURAL FORM		BROAD FORM		X-BROAD FORM			
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
Bright SS	.012	0.30	13-111-100	13-111-101	13-112-100	13-112-101	13-114-100	13-114-101
	.014	0.36	13-111-102	13-111-103	13-112-102	13-112-103	13-114-102	13-114-103
	.016	0.40	13-111-104	13-111-105	13-112-104	13-112-105	13-114-104	13-114-105
	.018	0.46	13-111-106	13-111-107	13-112-106	13-112-107	13-114-106	13-114-107
	.020	0.50	13-111-108	13-111-109	13-112-108	13-112-109	13-114-108	13-114-109
	.016 x .016	0.40 x 0.40	13-111-110	13-111-111	13-112-110	13-112-111	13-114-110	13-114-111
	.016 x .022	0.40 x 0.56	13-111-112	13-111-113	13-112-112	13-112-113	13-114-112	13-114-113
	.017 x .022	0.43 x 0.56	13-111-114	13-111-115	13-112-114	13-112-115	13-114-114	13-114-115
	.017 x .025	0.43 x 0.63	13-111-116	13-111-117	13-112-116	13-112-117	13-114-116	13-114-117
	.018 x .018	0.46 x 0.46	13-111-118	13-111-119	13-112-118	13-112-119	13-114-118	13-114-119
	.018 x .025	0.46 x 0.63	13-111-120	13-111-121	13-112-120	13-112-121	13-114-120	13-114-121
	.019 x .025	0.48 x 0.63	13-111-122	13-111-123	13-112-122	13-112-123	13-114-122	13-114-123
	.021 x .025	0.53 x 0.63	13-111-124	13-111-125	13-112-124	13-112-125	13-114-124	13-114-125

	NATURAL FORM		BROAD FORM		X-BROAD FORM			
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
Gold Tone SS	.012	0.30	13-121-100	13-121-101	13-122-100	13-122-101	13-124-100	13-124-101
	.014	0.36	13-121-102	13-121-103	13-122-102	13-122-103	13-124-102	13-124-103
	.016	0.40	13-121-104	13-121-105	13-122-104	13-122-105	13-124-104	13-124-105
	.018	0.46	13-121-106	13-121-107	13-122-106	13-122-107	13-124-106	13-124-107
	.020	0.50	13-121-108	13-121-109	13-122-108	13-122-109	13-124-108	13-124-109
	.016 x .016	0.40 x 0.40	13-121-110	13-121-111	13-122-110	13-122-111	13-124-110	13-124-111
	.016 x .022	0.40 x 0.56	13-121-112	13-121-113	13-122-112	13-122-113	13-124-112	13-124-113
	.017 x .022	0.43 x 0.56	13-121-114	13-121-115	13-122-114	13-122-115	13-124-114	13-124-115
	.017 x .025	0.43 x 0.63	13-121-116	13-121-117	13-122-116	13-122-117	13-124-116	13-124-117
	.018 x .018	0.46 x 0.46	13-121-118	13-121-119	13-122-118	13-122-119	13-124-118	13-124-119
	.018 x .025	0.46 x 0.63	13-121-120	13-121-121	13-122-120	13-122-121	13-124-120	13-124-121
	.019 x .025	0.48 x 0.63	13-121-122	13-121-123	13-122-122	13-122-123	13-124-122	13-124-123
	.021 x .025	0.53 x 0.63	13-121-124	13-121-125	13-122-124	13-122-125	13-124-124	13-124-125

DISPOSABLE WIRE MARKER*

- ▶ Red wax tips loaded on a wooden stick
- ▶ Wax tip is resistible to cracking and melting
- ▶ Very attractive and professional design
- ▶ Inexpensive and refillable



Dispenser
Item # 19-299-210
100 MARKERS PER DISPENSER
Markers Item # 19-299-310
PK/100

*U.S. PATENT NO 5,324,348

GREAT CUSTOMER SERVICE
SETS US APART FROM
THE REST



Stainless Steel Wires

Retraction Archwires

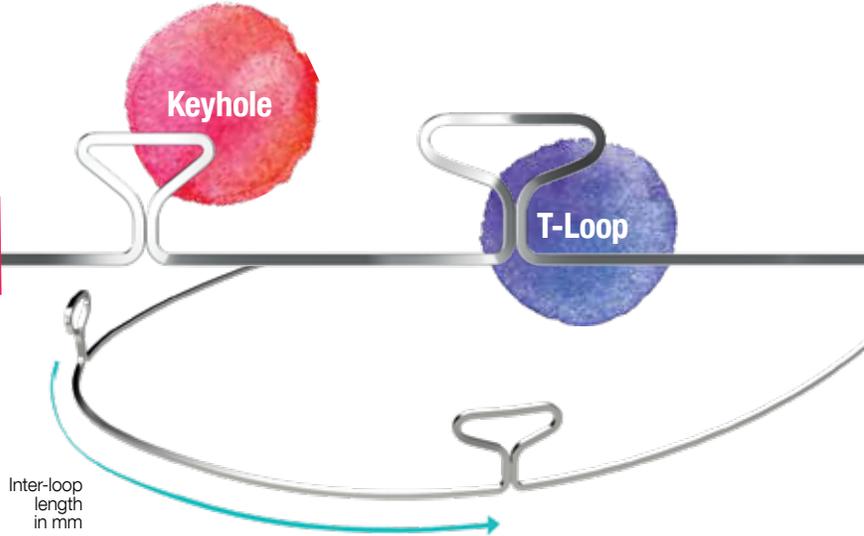
Perfect for space closure, anterior intrusion and elastic engagement.

10 WIRES PER PACK

- ▶ Custom made to exact measurements.
- ▶ Available in 3 shapes:



Archwire Organizer
Item #19-299-104, Page 138



Length	.016 x .022	.019 x .025
24 mm	13-154-145	13-154-156
26 mm	13-154-146	13-154-157
28 mm	13-154-147	13-154-158
30 mm	13-154-148	13-154-159
32 mm	13-154-149	13-154-160
34 mm	13-154-150	13-154-161
36 mm	13-154-151	13-154-162
38 mm	13-154-152	13-154-163
40 mm	13-154-153	13-154-164
42 mm	13-154-154	13-154-165
44 mm	13-154-155	13-154-166



Length	.016 x .022	.019 x .025
24 mm	13-152-123	13-152-134
26 mm	13-152-124	13-152-135
28 mm	13-152-125	13-152-136
30 mm	13-152-126	13-152-137
32 mm	13-152-127	13-152-138
34 mm	13-152-128	13-152-139
36 mm	13-152-129	13-152-140
38 mm	13-152-130	13-152-141
40 mm	13-152-131	13-152-142
42 mm	13-152-132	13-152-143
44 mm	13-152-133	13-152-144



Length	.016 x .022	.017 x .025	.019 x .025
24 mm	13-153-167	13-153-178	13-153-200
26 mm	13-153-168	13-153-179	13-153-201
28 mm	13-153-169	13-153-180	13-153-202
30 mm	13-153-170	13-153-181	13-153-203
32 mm	13-153-171	13-153-182	13-153-204
34 mm	13-153-172	13-153-183	13-153-205
36 mm	13-153-173	13-153-184	13-153-206
38 mm	13-153-174	13-153-185	13-153-207
40 mm	13-153-175	13-153-186	13-153-208
42 mm	13-153-176	13-153-187	13-153-209
44 mm	13-153-177	13-153-188	13-153-210

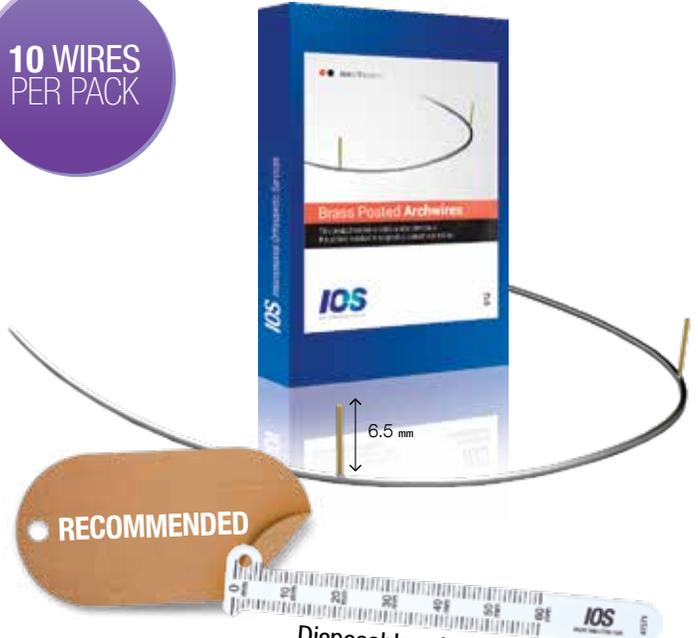
Brass Posted Archwire

Perfect for space closure, elastic engagement

10 WIRES PER PACK

- ▶ 0.030" silver soldered brass wire.
- ▶ Post is 6.5 mm in height and bendable.
- ▶ Sizes 24-28 for lower and 30-44 for upper.
- ▶ Available in Natural arch form only

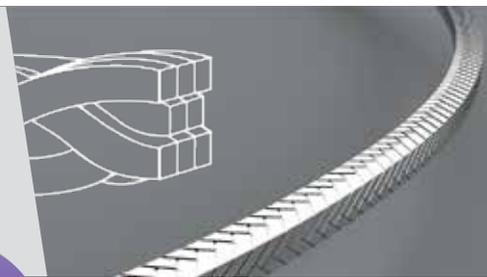
Length	.016 x .022	.017 x .025	.018 x .025	.019 x .025
24 mm	13-155-210	13-155-221	13-155-232	13-155-143
26 mm	13-155-211	13-155-222	13-155-233	13-155-144
28 mm	13-155-212	13-155-223	13-155-234	13-155-145
30 mm	13-155-213	13-155-224	13-155-235	13-155-146
32 mm	13-155-214	13-155-225	13-155-236	13-155-147
34 mm	13-155-215	13-155-226	13-155-237	13-155-148
36 mm	13-155-216	13-155-227	13-155-238	13-155-149
38 mm	13-155-217	13-155-228	13-155-239	13-155-150
40 mm	13-155-218	13-155-229	13-155-140	13-155-151
42 mm	13-155-219	13-155-230	13-155-141	13-155-152
44 mm	13-155-220	13-155-231	13-155-142	13-155-153



Disposable ruler
Item #19-299-115, Page 51

Multi-Strand SS Archwires

- ▶ This is an 8-strand-braided stainless steel archwire similar to D-rect™ from ORMCO. It is effective as a finishing wire to retain torque and allow vertical movement for settling.
- ▶ Accepts bends using a regular bird beak 18-201 or a detailing plier #18-303.
- ▶ **Available in 5 different sizes.**



**10 WIRES
PER PACK**

Wire size	NATURAL FORM	
	Upper	Lower
.016 x .016	13-138-184	13-138-185
.016 x .022	13-138-186	13-138-187
.017 x .025	13-138-188	13-138-189
.018 x .025	13-138-190	13-138-191
.019 x .025	13-138-192	13-138-193

**RECOMMENDED
TO USE WITH**



Detailing Plier
Item #18-303, Page 111

Bird Peak Plier
Item #18-201, Page 108

Bendable 15 cm ruler

- ▶ Manufactured from high quality bendable SS
- ▶ 15 cm ruler measures 75 mm from midline
- ▶ Use this ruler to measure retraction archwires, lingual retainers, RPE expansion, ...etc
- ▶ Autoclavable



Item # 19-299-111

Disposable ruler

- ▶ Unique double-sided ruler features a hole to engage a post of hook making space measurement quick, easy and accurate.
- ▶ 60 mm ruler

Item # 19-299-115



**25
PER PACK**

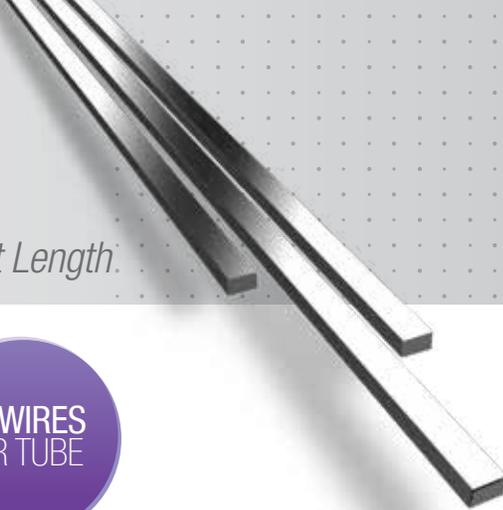
- TADS
- Brackets
- Ends
- Wires
- Archwires
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

Stainless Steel Straight Wires

Rectangular SS Wire 14" Straight Length.

- ▶ Manufactured from spring hard temper.
- ▶ Designed to form archwires and loops.
- ▶ Each wire may form 2-3 arches.

Diameter	Item Number
.016 x .016	13-221-100
.016 x .022	13-221-101
.017 x .022	13-221-102
.017 x .025	13-221-103
.018 x .025	13-221-104
.019 x .025	13-221-105



Round Stainless Steel Wire 14" Straight Length

Designed to form archwires and springs

- ▶ Accepts bends freely and holds them in place
- ▶ **Available in 2 tensile strengths:**
 - **Hard Tensile;** better for stabilizing component: e.g. Hawley wire
 - **Spring Tensile;** better for force delivery component: e.g. springs

Diameter	MM	Hard	Spring Hard
.014"	0.36	13-211-009	13-212-009
.016"	0.40	13-211-100	13-212-100
.018"	0.46	13-211-101	13-212-101
.020"	0.50	13-211-102	13-212-102
.025"	0.64	13-211-103	13-212-103
.028"	0.70	13-211-104	13-212-104
.030"	0.76	13-211-105	13-212-105
.032"	0.80	13-211-106	13-212-106
.036"	0.90	13-211-107	13-212-107
.040"	1.00	13-211-108	13-212-108
.045"	1.14	13-211-109	13-212-109
.051"	1.30	13-211-110	13-212-110

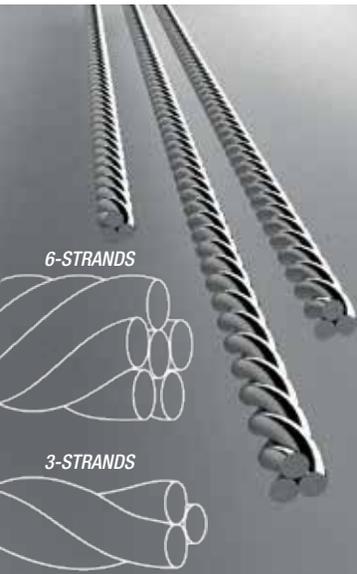


Stainless Steel Straight Length

SS Twisted Straight Wire

- ▶ May be used for initial treatment phase
- ▶ **Available in two forms:**
 - **Three Strand SS:** slightly stiffer than Six Strand SS, easily bendable, great for fixed lingual retainers.
 - **Six Strand SS:** best choice for initial aligning, long working range.
- ▶ **Available in:**
 - 14-inch straight length: 10 wires per tube

Diameter	3-STRANDS	6-STRANDS
	14" Straight Item #	14" Straight Item #
.0155"	13-233-100	13-236-100
.0175"	13-233-101	13-236-101
.0195"	13-233-102	13-236-102



Arch-Forming Turret

- ▶ Forms archwires from .016 to .021.
- ▶ Seven wire slots, 0 torque
- ▶ Item # 19-299-112

Beta-Titanium Wires "TMA"

β-Ti Archwires

Great formability with excellent range of activation



- ▶ Provides SS bendability and NiTi fallibility.
- ▶ Moderate force between SS and regular NiTi.
- ▶ Detailing could be easily achieved in the final stage of treatment.

		NATURAL FORM		BROAD FORM		X-BROAD FORM	
Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
.016	0.40	13-511-100	13-511-101	13-512-100	13-512-101	13-514-100	13-514-101
.018	0.46	13-511-102	13-511-103	13-512-102	13-512-103	13-514-102	13-514-103
.016 x .022	0.40 x 0.56	13-511-104	13-511-105	13-512-104	13-512-105	13-514-104	13-514-115
.017 x .025	0.43 x 0.63	13-511-106	13-511-107	13-512-106	13-512-107	13-514-106	13-514-107
.018 x .025	0.46 x 0.63	13-511-108	13-511-109	13-512-108	13-512-109	13-514-108	13-514-109
.019 x .025	0.48 x 0.63	13-511-110	13-511-111	13-512-110	13-512-111	13-514-110	13-514-111
.021 x .025	0.53 x 0.63	13-511-112	13-511-113	13-512-112	13-512-113	13-514-112	13-514-113

Straight Cut β-Ti 14"

Smooth, polished surface for excellent sliding mechanics

- ▶ Moderate force between SS and regular NiTi.
- ▶ Detailing could be easily achieved in the final stage of treatment.

Inches	MM	Item Number
.016	0.40	13-521-100
.018	0.46	13-521-101
.032	0.80	13-521-107
.036	0.90	13-521-108
.016 x .022	0.40 x 0.56	13-521-102
.017 x .025	0.43 x 0.63	13-521-103
.018 x .025	0.46 x 0.63	13-521-104
.019 x .025	0.48 x 0.63	13-521-105
.021 x .025	0.53 x 0.63	13-521-106



Elgiloy Wires

EXCELOY Straight Cut 14"

- ▶ Exceloy is a wire made of a cobalt-chromium alloy. It is supplied in a soft form which is easier to bend. Then, it can be heat-treated to increase its stiffness to a level equivalent to regular stainless steel.
- ▶ Fatigue resistant wire that will never break!
- ▶ Excellent for bending, soldering or welding
- ▶ Great for Edgewise mechanics and removable retainers
- ▶ Available in Blue Elgiloy only.

Inches	MM	Item Number
.028	.68	13-531-106
.030	.76	13-531-107
.032	.80	13-531-108
.036	.90	13-531-109
.040	1.00	13-531-110
.016 x .016	0.40 x 0.40	13-531-100
.016 x .022	0.40 x 0.56	13-531-101
.017 x .025	0.43 x 0.63	13-531-102
.018 x .025	0.46 x 0.63	13-531-103
.019 x .025	0.48 x 0.63	13-531-104
.021 x .025	0.53 x 0.63	13-531-105

5 WIRES PER PACK



- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomers
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

Nickel Titanium, Overview

Definition

NiTi is a shape memory alloy that remembers its geometry. After it is deformed, it regains its original geometry by itself during heating (Thermal NiTi) or simply during unloading (pseudo-elasticity). Orthodontic NiTi archwires consist of about 55% nickel and 45% titanium.

History

The nickel-titanium alloys were first developed in 1962-1963 by the Naval Ordnance Laboratory and commercialized under the trade name Nitinol. George Andreasen, an Orthodontist from Iowa, developed his own formula and was awarded U.S. Pat. No. 4,037,324 in 1979.

Crystal Structures

Why does NiTi conserve its unique properties? Unlike other alloys, NiTi undergoes phase changes while re-

maining solid. These phase changes, known as martensite and austenite, "involve the rearrangement of the position of particles within the crystal structure of the solid". In NiTi, these phase transformations occur below the melting point. Thus, the alloy can retain its shape without melting.

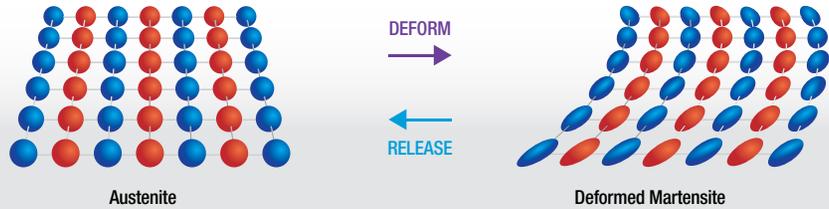
Martensite phase

A Crystal type of NiTi, which is characterized by a cubic body-centered lattice structure. This phase is

the soft state of NiTi and has a lower delivery force than the Austenite phase.

Austenite phase

A crystal type of NiTi which is characterized by a face-centered lattice structure. This is the hard phase where the wire delivers its force. After deformation into a martensite phase, a NiTi wire can regain its shape either by pseudo-elasticity or by thermo-elasticity.



Ultimate Super-elastic NiTi

- ▶ Super elastic NiTi is provided in its austenitic phase at all times. The super rebound and memory characteristics ensure desired results without the need for adjustment or modification.
- ▶ Super elastic NiTi allows for a high degree of deflection without causing deformation of the original archform characteristics.
- ▶ Efficiency of performance ensures achievement of objectives without need for multiple staging of archwires as with stainless steel alternatives.
- ▶ Available in Natural form, Broad form and X-Broad form.



			NATURAL FORM		BROAD FORM		X-BROAD FORM	
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
	SE NiTi- Etched Midline	.012	0.30	13-311-100	13-311-101	13-312-100	13-312-101	13-314-100
.014		0.36	13-311-102	13-311-103	13-312-102	13-312-103	13-314-102	13-314-103
.016		0.40	13-311-104	13-311-105	13-312-104	13-312-105	13-314-104	13-314-105
.018		0.46	13-311-106	13-311-107	13-312-106	13-312-107	13-314-106	13-314-107
.020		0.50	13-311-108	13-311-109	13-312-108	13-312-109	13-314-108	13-314-109
.016 x .016		0.40 x 0.40	13-311-110	13-311-111	13-312-110	13-312-111	13-314-110	13-314-111
.016 x .022		0.40 x 0.56	13-311-112	13-311-113	13-312-112	13-312-113	13-314-112	13-314-113
.017 x .022		0.43 x 0.56	13-311-114	13-311-115	13-312-114	13-312-115	13-314-114	13-314-115
.017 x .025		0.43 x 0.63	13-311-116	13-311-117	13-312-116	13-312-117	13-314-116	13-314-117
.018 x .018		0.46 x 0.46	13-311-118	13-311-119	13-312-118	13-312-119	13-314-118	13-314-119
.018 x .025		0.46 x 0.63	13-311-120	13-311-121	13-312-120	13-312-121	13-314-120	13-314-121
.019 x .025		0.48 x 0.63	13-311-122	13-311-123	13-312-122	13-312-123	13-314-122	13-314-123
.021 x .025	0.53 x 0.63	13-311-124	13-311-125	13-312-124	13-312-125	13-314-124	13-314-125	

			NATURAL FORM		BROAD FORM		X-BROAD FORM	
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
	SE NiTi-Dimpled Midline	.012	0.30	13-321-100	13-321-101	13-322-100	13-322-101	13-324-100
.014		0.36	13-321-102	13-321-103	13-322-102	13-322-103	13-324-102	13-324-103
.016		0.40	13-321-104	13-321-105	13-322-104	13-322-105	13-324-104	13-324-105
.018		0.46	13-321-106	13-321-107	13-322-106	13-322-107	13-324-106	13-324-107
.020		0.50	13-321-108	13-321-109	13-322-108	13-322-109	13-324-108	13-324-109
.016 x .016		0.40 x 0.40	13-321-110	13-321-111	13-322-110	13-322-111	13-324-110	13-324-111
.016 x .022		0.40 x 0.56	13-321-112	13-321-113	13-322-112	13-322-113	13-324-112	13-324-113
.017 x .022		0.43 x 0.56	13-321-114	13-321-115	13-322-114	13-322-115	13-324-114	13-324-115
.017 x .025		0.43 x 0.63	13-321-116	13-321-117	13-322-116	13-322-117	13-324-116	13-324-117
.018 x .018		0.46 x 0.46	13-321-118	13-321-119	13-322-118	13-322-119	13-324-118	13-324-119
.018 x .025		0.46 x 0.63	13-321-120	13-321-121	13-322-120	13-322-121	13-324-120	13-324-121
.019 x .025		0.48 x 0.63	13-321-122	13-321-123	13-322-122	13-322-123	13-324-122	13-324-123
.021 x .025	0.53 x 0.63	13-321-124	13-321-125	13-322-124	13-322-125	13-324-124	13-324-125	

Ultimate™ NiTi Heat Activated

Easiest of NiTi wires to engage



- ▶ Extremely light continuous force that effectively move teeth with minimal patient discomfort.
- ▶ Dead soft when chilled below 5°C and the thermal properties achieve optimum activation at 37°C.
- ▶ Early rectangular wire engagement for early torque control.

			NATURAL FORM		BROAD FORM		X-BROAD FORM	
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
	Thermal NiTi Etched Midline	.012	0.30	13-341-100	13-341-101	13-342-100	13-342-101	13-344-100
.014		0.36	13-341-102	13-341-103	13-342-102	13-342-103	13-344-102	13-344-103
.016		0.40	13-341-104	13-341-105	13-342-104	13-342-105	13-344-104	13-344-105
.018		0.46	13-341-106	13-341-107	13-342-106	13-342-107	13-344-106	13-344-107
.020		0.50	13-341-108	13-341-109	13-342-108	13-342-109	13-344-108	13-344-109
.016 x .016		0.40 x 0.40	13-341-110	13-341-111	13-342-110	13-342-111	13-344-110	13-344-111
.016 x .022		0.40 x 0.56	13-341-112	13-341-113	13-342-112	13-342-113	13-344-112	13-344-113
.017 x .022		0.43 x 0.56						
.017 x .025		0.43 x 0.63	13-341-116	13-341-117	13-342-116	13-342-117	13-344-116	13-344-117
.018 x .018		0.46 x 0.46	13-341-118	13-341-119	13-342-118	13-342-119	13-344-118	13-344-119
.018 x .025		0.46 x 0.63	13-341-120	13-341-121	13-342-120	13-342-121	13-344-120	13-344-121
.019 x .025		0.48 x 0.63	13-341-122	13-341-123	13-342-122	13-342-123	13-344-122	13-344-123
.021 x .025		0.53 x 0.63	13-341-124	13-341-125	13-342-124	13-342-125	13-344-124	13-344-125

			NATURAL FORM		BROAD FORM		X-BROAD FORM	
	Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower
	Thermal NiTi Dimpled Midline	.012	0.30	13-351-100	13-351-101	13-352-100	13-352-101	13-354-100
.014		0.36	13-351-102	13-351-103	13-352-102	13-352-103	13-354-102	13-354-103
.016		0.40	13-351-104	13-351-105	13-352-104	13-352-105	13-354-104	13-354-105
.018		0.46	13-351-106	13-351-107	13-352-106	13-352-107	13-354-106	13-354-107
.020		0.50	13-351-108	13-351-109	13-352-108	13-352-109	13-354-108	13-354-109
.016 x .016		0.40 x 0.40	13-351-110	13-351-111	13-352-110	13-352-111	13-354-110	13-354-111
.016 x .022		0.40 x 0.56	13-351-112	13-351-113	13-352-112	13-352-113	13-354-112	13-354-113
.017 x .022		0.43 x 0.56						
.017 x .025		0.43 x 0.63	13-351-116	13-351-117	13-352-116	13-352-117	13-354-116	13-354-117
.018 x .018		0.46 x 0.46	13-351-118	13-351-119	13-352-118	13-352-119	13-354-118	13-354-119
.018 x .025		0.46 x 0.63	13-351-120	13-351-121	13-352-120	13-352-121	13-354-120	13-354-121
.019 x .025		0.48 x 0.63	13-351-122	13-351-123	13-352-122	13-352-123	13-354-122	13-354-123
.021 x .025		0.53 x 0.63	13-351-124	13-351-125	13-352-124	13-352-125	13-354-124	13-354-125



NiTi Chilling Tool

Fill the tube with water, place it in the freezer, once frozen, then you are ready to go. Slotted head for easier wire placement.

Item #18-881



An economical way to soften a thermal NiTi is to moisten a cotton swab and freeze it. Insert the thermal wire and then chill desired area with the cotton swab.



- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomers
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

LIMBER™

COPPER-NICKEL TITANIUM ARCHWIRES

IOS Copper Nickel Titanium Archwires are not your ordinary NiTi archwire!
The blend of copper in the raw material, along with our advanced manufacturing process, provide unique advantages that can be appreciated by both the patient and the orthodontist.

Our wire exhibits lower loading forces, which eases wire engagement and reduces patient discomfort. Our archwire exhibits more consistent thermal active force and maintains the constant force for a greater distance of unloading and tooth alignment. These features offer an opportunity for extended time periods between patient wire changes.

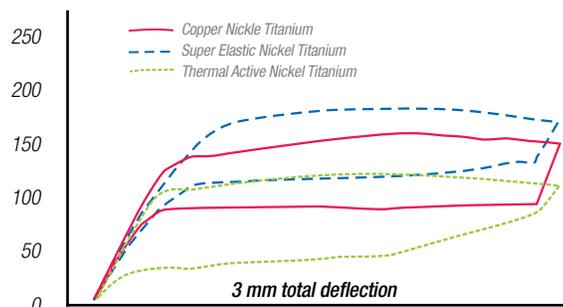
IOS Copper Nickel Titanium Archwires... a wire with the properties to reduce chair time and tackle your practice's most challenging cases.

Clinical Advantages

- ▶ A true super elastic wire with thermo elastic shape memory.
- ▶ Generates more consistent tooth movement as the wire is active longer in the optimal force range.
- ▶ Offered in multiple transformation temperatures to provide the right wire for your unique case.
- ▶ The higher the temperature transition (TTR), the lower the relative forces delivered by the wire.
- ▶ The lighter forces exhibited by the copper nickel titanium and its high flexibility, allow these wires to be engaged in cases with moderate to severe tooth to tooth misalignment.
- ▶ Longer clinical activation promotes reduced chair time and greater durations between wire changes.
- ▶ Independent testing has shown that the copper nickel titanium wire demonstrates maximum unraveling of crowding over a period of time, when compared to nickel titanium and stainless steel.
- ▶ The addition of copper has been known to increase corrosive resistance and control the hysteresis width.

FEATURES OFFERED

- Currently available in both 27° C (medium) and 35° C (light) at transition temperatures
- Offered in most orthodontic wire sizes and arch forms
- Ultra smooth finish to reduce friction





- TADS
- Brackets
- Bands
- Wires**
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

10 WIRES PER PACK

all wires come with 2 STOPPERS

		NATURAL FORM		BROAD FORM		X-BROAD FORM		TRANSITION TEMP
Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower	
0.013	0.34	13-400-100	13-400-101	13-401-100	13-401-101	13-404-100	13-404-101	27°
0.014	0.36	13-400-102	13-400-103	13-401-102	13-401-103	13-404-102	13-404-103	27°
0.016	0.40	13-400-104	13-400-105	13-401-104	13-401-105	13-404-104	13-404-105	27°
0.018	0.46	13-400-106	13-400-107	13-401-106	13-401-107	13-404-106	13-404-107	27°
.014x.025	0.36x.063	13-400-110	13-400-111	13-401-110	13-401-111	13-404-110	13-404-111	27°
.016x.025	0.41x0.63	13-400-112	13-400-113	13-401-112	13-401-113	13-404-112	13-404-113	27°
.017x.025	0.34x0.63	13-400-116	13-400-117	13-401-116	13-401-117	13-404-116	13-404-117	27°
.018x.025	0.46x0.63	13-400-120	13-400-121	13-401-120	13-401-121	13-404-120	13-404-121	27°
.019x.025	0.48x0.63	13-400-122	13-400-123	13-401-122	13-401-123	13-404-122	13-404-123	27°
.021x.025	0.53x0.63	13-400-124	13-400-125	13-401-124	13-401-125	13-404-124	13-404-125	27°

		NATURAL FORM		BROAD FORM		X-BROAD FORM		TRANSITION TEMP
Inches	MM	Upper	Lower	Upper	Lower	Upper	Lower	
0.013	0.34	13-402-100	13-402-101	13-403-100	13-403-101	13-405-100	13-405-101	35°
0.014	0.36	13-402-102	13-402-103	13-403-102	13-403-103	13-405-102	13-405-103	35°
0.016	0.40	13-402-104	13-402-105	13-403-104	13-403-105	13-405-104	13-405-105	35°
0.018	0.46	13-402-106	13-402-107	13-403-106	13-403-107	13-405-106	13-405-107	35°
.014x.025	0.36x.063	13-402-110	13-402-111	13-403-110	13-403-111	13-405-110	13-405-111	35°
.016x.025	0.41x0.63	13-402-112	13-402-113	13-403-112	13-403-113	13-405-112	13-405-113	35°
.017x.025	0.34x0.63	13-402-116	13-402-117	13-403-116	13-403-117	13-405-116	13-405-117	35°
.018x.025	0.46x0.63	13-402-120	13-402-121	13-403-120	13-403-121	13-405-120	13-405-121	35°
.019x.025	0.48x0.63	13-402-122	13-402-123	13-403-122	13-403-123	13-405-122	13-405-123	35°
.021x.025	0.53x0.63	13-402-124	13-402-125	13-403-124	13-403-125	13-405-124	13-405-125	35°



Use 27°C Copper when higher force levels are needed.

Use 35°C Copper when Medium force levels are needed.

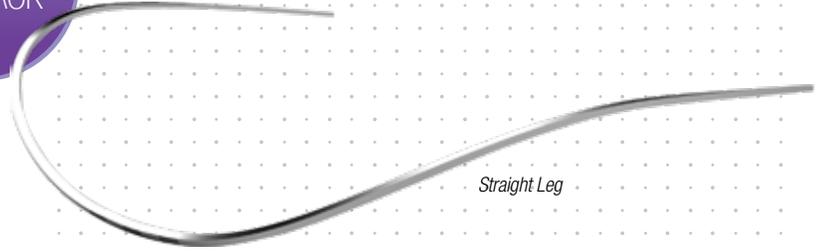
Reverse Curve NiTi; R-NiTi

Super-elastic R-NiTi

The same high quality as super elastic NiTi

- ▶ Great to open deep bite cases and control arch levelness during canine retraction.
- ▶ 3-Dimensional control of teeth movement to counteract the side effect of closing chain "with regular R-NiTi".
- ▶ Available in round and rectangular sizes, regular and straight leg shapes

10 WIRES PER PACK



	REGULAR SHAPE				STRAIGHT LEG	
	Inches	MM	Upper	Lower	Upper	Lower
Reverse Curve SE NiTi	.012	0.30	13-364-100	13-364-101	13-367-100	13-367-101
	.014	0.36	13-364-102	13-364-103	13-367-102	13-367-103
	.016	0.40	13-364-104	13-364-105	13-367-104	13-367-105
	.018	0.46	13-364-106	13-364-107	13-367-106	13-367-107
	.020	0.50	13-364-108	13-364-109	13-367-108	13-367-109
	.016 x .016	0.40 x 0.40	13-364-110	13-364-111	13-367-110	13-367-111
	.016 x .022	0.40 x 0.56	13-364-112	13-364-113	13-367-112	13-367-113
	.017 x .022	0.43 x 0.56	13-364-114	13-364-115	13-367-114	13-367-115
	.017 x .025	0.43 x 0.63	13-364-116	13-364-117	13-367-116	13-367-117
	.018 x .018	0.46 x 0.46	13-364-118	13-364-119	13-367-118	13-367-119
	.018 x .025	0.46 x 0.63	13-364-120	13-364-121	13-367-120	13-367-121
	.019 x .025	0.48 x 0.63	13-364-122	13-364-123	13-367-122	13-367-123
	.021 x .025	0.53 x 0.63	13-364-124	13-364-125	13-367-124	13-367-125



Heat-Activated R-NiTi

Can be cooled or chilled resulting in a softer, more pliable wire for easy engagement



- ▶ Great for crowded cases where aligning and leveling will be carried out simultaneously.
- ▶ Provides light continuous force.

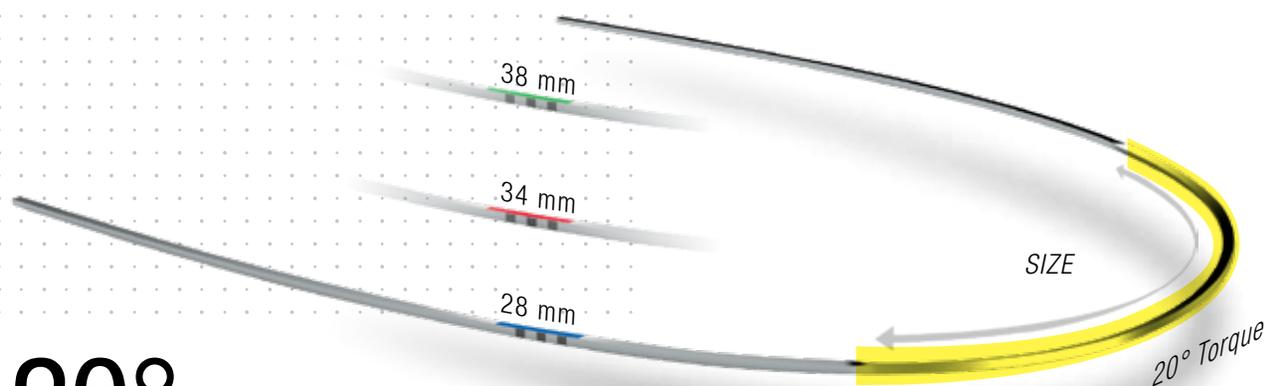
	REGULAR SHAPE				STRAIGHT LEG	
	Inches	MM	Upper	Lower	Upper	Lower
Reverse Curve Thermal NiTi	.012	0.30	13-374-100	13-374-101	13-377-100	13-377-101
	.014	0.36	13-374-102	13-374-103	13-377-102	13-377-103
	.016	0.40	13-374-104	13-374-105	13-377-104	13-377-105
	.018	0.46	13-374-106	13-374-107	13-377-106	13-377-107
	.020	0.50	13-374-108	13-374-109	13-377-108	13-377-109
	.016 x .016	0.40 x 0.40	13-374-110	13-374-111	13-377-110	13-377-111
	.016 x .022	0.40 x 0.56	13-374-112	13-374-113	13-377-112	13-377-113
	.017 x .022	0.43 x 0.56				
	.017 x .025	0.43 x 0.63	13-374-116	13-374-117	13-377-116	13-377-117
	.018 x .018	0.46 x 0.46	13-374-118	13-374-119	13-377-118	13-377-119
	.018 x .025	0.46 x 0.63	13-374-120	13-374-121	13-377-120	13-377-121
	.019 x .025	0.48 x 0.63	13-374-122	13-374-123	13-377-122	13-377-123
	.021 x .025	0.53 x 0.63	13-374-124	13-374-125	13-377-124	13-377-125

10 WIRES PER PACK

Regular R-NiTi has an anterior and a posterior curvature with posterior toe-in and lingual crown torque.

Straight Leg R-NiTi has only an anterior curvature with no posterior toe-in or torque.

20° Anterior Torquing NiTi



- ▶ This is a time saving NiTi archwire where the anterior segment has a built-in torque of 20°.
- ▶ Start torque correction of the anterior teeth as early as possible.
- ▶ Same wire could be used to achieve lingual root torque or buccal root torque.
- ▶ For lingual root torque, put the laser mark on the right side.
- ▶ For buccal root torque, put the laser mark on the left side.
- ▶ Color Code to identify sizes.

Available in 3 sizes:

- 28 mm lower
- 34 mm upper
- 38 mm upper

**5 WIRES
PER PACK**



Wire size	Lower 28 mm	Upper 34mm	Upper 38mm
.017 x .025	13-332-100	13-332-103	13-332-106
.019 x .025	13-332-t101	13-332-104	13-332-107
.021 x .025	13-332-102	13-332-105	13-332-108

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

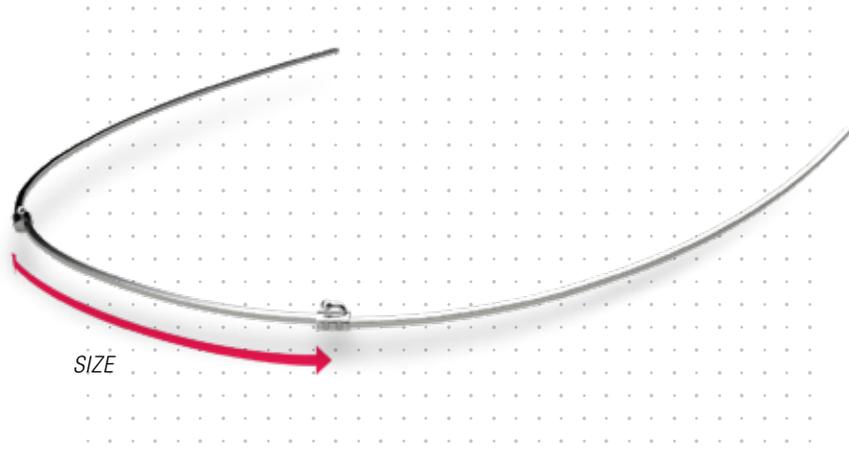
Adhesives

Instruments

Miscellaneous

zefiro™ ARCHWIRES

With technology advancement, the dream of having two wire sizes or materials built into the same archwire becomes a reality.



- ▶ The anterior segment is thicker to maintain torque while the posterior segment is thinner for less friction during retraction.
- ▶ Joining hook could be used for elastics, coils or lacebacks.
- ▶ Use 16x22 & 17x25 for 18 slot brackets and 19x25 & 21x25 for 22 slot brackets.

AVAILABLE
IN 4 DIFFERENT
COMBINATIONS
OF MATERIALS.

	Arches	Size mm	ANT. / POS. 16x22/16x16	ANT. / POS. 17x25/16x16	ANT. / POS. 19x25/18x18	ANT. / POS. 21x25/18x18
SS Anterior SS Posterior	Lower	24	13-610-100	13-610-104	13-610-108	13-610-112
	Lower	26	13-610-101	13-610-105	13-610-109	13-610-113
	Upper	34	13-610-102	13-610-106	13-610-110	13-610-114
	Upper	36	13-610-103	13-610-107	13-610-111	13-610-115
NITI Anterior NITI Posterior	Lower	24	13-611-100	13-611-104	13-611-108	13-611-112
	Lower	26	13-611-101	13-611-105	13-611-109	13-611-113
	Upper	34	13-611-102	13-611-106	13-611-110	13-611-114
	Upper	36	13-611-103	13-611-107	13-611-111	13-611-115
NITI Anterior SS Posterior	Lower	24	13-612-100	13-612-104	13-612-108	13-612-112
	Lower	26	13-612-101	13-612-105	13-612-109	13-612-113
	Upper	34	13-612-102	13-612-106	13-612-110	13-612-114
	Upper	36	13-612-103	13-612-107	13-612-111	13-612-115
BI-T Anterior NITI Posterior	Lower	24	13-613-100	13-613-104	13-613-108	13-613-112
	Lower	26	13-613-101	13-613-105	13-613-109	13-613-113
	Upper	34	13-613-102	13-613-106	13-613-110	13-613-114
	Upper	36	13-613-103	13-613-107	13-613-111	13-613-115

5 WIRES
PER PACK

Aesthetic Wires



- ▶ Tooth-colored outer surface.
- ▶ Shiny NiTi & SS working surfaces.
- ▶ Resistance to staining & peeling for up to 45 days.
- ▶ Available in SS and NiTi natural arch form.

> D.G. WIRE IS THE ONLY AESTHETIC WIRE IN THE MARKET THAT COMBINES SUPERIOR AESTHETICS WITH LOW FRICTION.

> DUE TO ADVANCED MICRO-MACHINING, ONLY THE OUTER SURFACE OF THE WIRE IS MICRO-COATED!

SATISFACTION IS GUARANTEED!

5 WIRES PER PACK



Inches	SE-NiTi NATURAL FORM		SS NATURAL FORM	
	Upper	Lower	Upper	Lower
.012	13-381-100	13-381-101	13-181-100	13-181-101
.014	13-381-102	13-381-103	13-181-102	13-181-103
.016	13-381-104	13-381-105	13-181-104	13-181-105
.018	13-381-106	13-381-107	13-181-106	13-181-107
.020	13-381-108	13-381-109	13-181-108	13-181-109
.016 x .016	13-381-110	13-381-111	13-181-110	13-181-111
.016 x .022	13-381-112	13-381-113	13-181-112	13-181-113
.017 x .022	13-381-114	13-381-115	13-181-114	13-181-115
.017 x .025	13-381-116	13-381-117	13-181-116	13-181-117
.018 x .018	13-381-118	13-381-119	13-181-118	13-181-119
.018 x .025	13-381-120	13-381-121	13-181-120	13-181-121
.019 x .025	13-381-122	13-381-123	13-181-122	13-181-123
.021 x .025	13-381-124	13-381-125	13-181-124	13-181-125

- TADS
- Brackets
- Bands
- Wires**
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

Gold Wires

Royal Wires

Our complete selection of high quality wires allows for a look that is unsurpassed in beauty. Available in: *Stainless Steel, NiTi, & Thermal NiTi*. Our wires offer unparalleled aesthetics without compromising functionality.

- ▶ 24K Gold plated
- ▶ Shiny and durable
- ▶ Available in natural arch form
- ▶ Black mark for upper arch wire
- ▶ Red mark for lower arch wire

1 WIRE PER PACK

Inches	STAINLESS STEEL		SUPER-ELASTIC NiTi	
	Upper	Lower	Upper	Lower
.012	13-191-100	13-191-101	13-393-100	13-393-101
.014	13-191-102	13-191-103	13-393-102	13-393-103
.016	13-191-104	13-191-105	13-393-104	13-393-105
.018	13-191-106	13-191-107	13-393-106	13-393-107
.020	13-191-108	13-191-109	13-393-108	13-393-109
.016 x .016	13-191-110	13-191-111	13-393-110	13-393-111
.016 x .022	13-191-112	13-191-113	13-393-112	13-393-113
.017 x .022				
.017 x .025	13-191-116	13-191-117	13-393-116	13-393-117
.018 x .018	13-191-118	13-191-119	13-393-118	13-393-119
.018 x .025	13-191-120	13-191-121	13-393-120	13-393-121
.019 x .025	13-191-122	13-191-123	13-393-122	13-393-123
.021 x .025	13-191-124	13-191-125	13-393-124	13-393-125

Gold lab wire round straight cut

- ▶ Excellent for Hawley bow and clasps.
- ▶ Extremely durable and aesthetic.

Inches	MM	Item Number
.032	0.81	13-591-100
.036	0.92	13-591-101



Go Royal

- ▶ For gold brackets, check page 30
- ▶ For gold auxiliaries, check page 67
- ▶ For gold button, check page 75
- ▶ For gold tube, check page 43

WE STARTED WITH 40 PRODUCTS
IN 1998, HAVE GROWN TO MORE
THAN 4500 PRODUCTS AT
PRESENT, & STILL GROWING



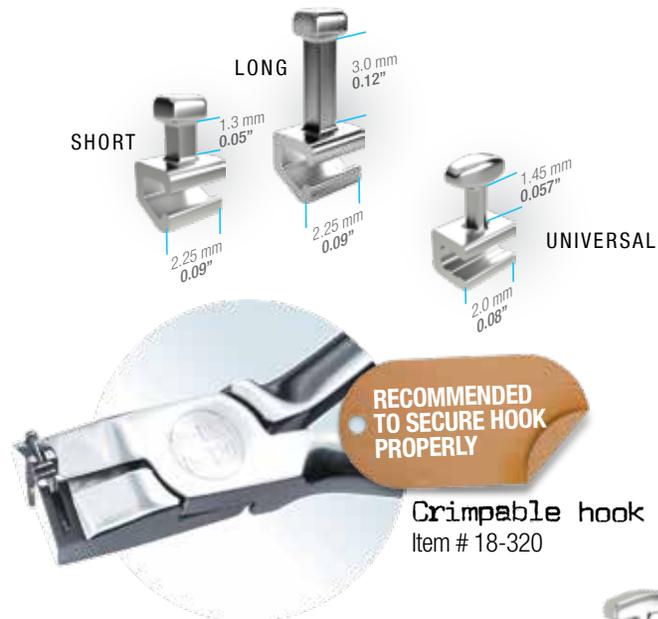
HOOKS AND STOPS

Crimpable hooks "Straight"

- > Hook bends easily in any direction
- > Accepts welding to SS wire
- > Available for round and rectangular wire
- > Great for elastics or springs

	Item Number
Short	14-311-100
Long	14-311-101
Universal	14-311-102

10 HOOKS PER PACKAGE



Crimpable hook plier
Item # 18-320

Crimpable hooks "Curved"

- > Special sturdy design to maintain the curve
- > Easy to crimp on any rectangular wire
- > Recommended to be used in retraction with mini-implants

	Item Number
Right	14-311-108
Left	14-311-109

10 HOOKS PER PACKAGE

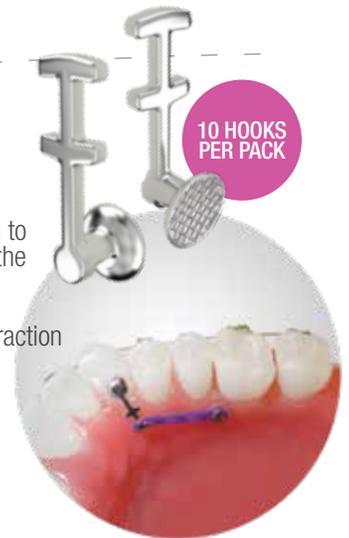


Tree Hook

Item # 14-311-103

- > These hooks will help you to direct the force closer to the center of resistance to achieve more bodily movement, en-masse retraction or even tooth uprighting
- > Use with mini implants

10 HOOKS PER PACK



Crimpable stops

- > Crimps securely on archwire to act as a stop
- > Quick application to activate open coils
- > Item # 14-312-100



Quick activation of coil with a stop



10 STOPS PER PACKAGE

25 PER PACK



Item # 14-312-101

Mini Stops

- > Extremely low profile & small in size, making them more aesthetically pleasing than regular crimpable stops.
- > Very comfortable to the patient due to the small size.
- > Slides easily onto the archwire for customized placement.
- > Crimps easily into place with Weingart style Pliers.
- > Made from SS.

LIGATURE TIES

SS preformed Ligature Ties

- > Formed from dead soft temper SS
- > Available in two forms:

Long Ties

Great for lace backs, maintain closed spaces and more!

1000 TIES
PER PACK FOR
REGULAR

Regular

Size: 0.010
Item # 14-412-101
Size: 0.012
Item # 14-412-103

White

Size: 0.012
Item # 14-414-103

Gold

Size: 0.010
Item # 14-413-101
Size: 0.012
Item # 14-413-103

Short Twisted Ties

For individual ligation

100 TIES
PER PACK FOR
GOLD & WHITE

REGULAR

Size	Item Number
0.008	14-411-009
0.009	14-411-100
0.010	14-411-101
0.011	14-411-102
0.012	14-411-103
0.014	14-411-104

WHITE

Size	Item Number
0.012	14-414-100

100 TIES
PER PACK

1000 TIES
PER
PACK

500 TIES
PER
PACK

SS preformed Koby Ties

- > Quick method to add an auxiliary hook to any bracket
- > Preformed to be easily tied in place and able to fit most orthodontic brackets
- > Strong welded joint
- > Available in long Koby ties and short twisted Koby ties

100 TIES
PER
PACK

Size	Item Number
0.010	14-421-100
0.012	14-421-101
0.014	14-421-102

Regular

White

Size: 0.012
Item # 14-422-101
Size: 0.014
Item # 14-422-102

Size: 0.012
Item # 14-424-101



Spooled ligature wire

- > Type 304 Stainless Steel
- > Dead Soft Annealed
- > Available in 6 wire diameters

Diameter	Length	Item Number
0.008	5827 ft	14-431-008
0.009	4382 ft	14-431-009
0.010	3730 ft	14-431-010
0.011	3075 ft	14-431-011
0.012	2612 ft	14-431-012
0.014	1890 ft	14-431-014



1 lb. (454 gm)
PER SPOOL

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

COIL SPRINGS

Ultimate Open Coil

- > Available in SS and NiTi:
- > SS delivers light to heavy force depending on initial activation. Accepts in-mouth activation. Sold in 36" spool
- > NiTi delivers gentle consistent force for reliable results. Great for pain sensitive patients, sold in 15" spool



MANY DIFFERENT USES INCLUDING:

- Distalizing molars by placing the coil mesial to the molars
- Creating space for an impacted tooth
- Works with different appliances such as E-Arches, Inman Aligners, Max 2000 series...etc

Material	Length	Wire Diameter	Inside Diameter	Item #
SS	36"	0.008	0.022	14-111-100
SS	36"	0.010	0.030	14-111-101
NiTi	15"	0.009	0.030	14-113-100
NiTi	15"	0.009	0.033	14-113-101
NiTi	15"	0.010	0.030	14-113-102
NiTi	15"	0.010	0.045	14-113-103
NiTi	15"	0.012	0.036	14-113-104
NEW NiTi	15"	0.012	0.045	14-113-108
NiTi	15"	0.012	0.055	14-113-105
NiTi	15"	0.014	0.030	14-113-106
NiTi	15"	0.014	0.036	14-113-107

Tooth Colored Open Coil

- > Same high performance of Ultimate Open Coil with added aesthetic coating which lasts up to 60 days

Material	Length	Wire Diameter	Inside Diameter	Item #
NiTi	7"	0.010	0.030	14-112-200
NiTi	7"	0.010	0.036	14-112-201
NiTi	7"	0.012	0.030	14-112-202
NiTi	7"	0.012	0.036	14-112-203



NiTi Open Coil Spring *with closed ends 5/8"-15 mm*

- > Preformed with double wound ends to eliminate sharp ends
- > 15 mm in length
- > Compressible to 3 mm
- > Quick application to open or maintain spaces



Force	Wire Diameter	Inside Diameter	Item #
Light 100 gm	0.009	0.035	14-123-100
Medium 150 gm	0.010	0.035	14-123-101
Heavy 200 gm	0.011	0.035	14-123-102

COIL SPRINGS



Ultimate Closed Coil

- > Use to close or maintain spaces
- > Sold in spools
- > Available in SS and NiTi

TIP

Springs with .030" inside diameter fit wires up to .017 x .025 and can best be used with .018 brackets

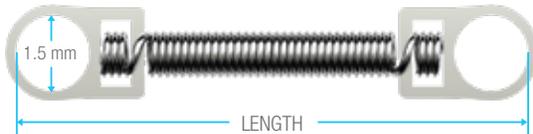
Material	Length	Wire Diameter	Inside Diameter	Item #
SS	36"	0.008	0.022	14-150-100
SS	36"	0.010	0.030	14-150-101
NiTi	15"	0.009	0.030	14-151-100
NiTi	15"	0.010	0.030	14-151-101
NiTi	15"	0.010	0.035	14-151-102

Closed Coil NiTi Springs w/ Eyelets

- > Eyelets make attachment fast and easy
- > Provide gentle continuous force for less discomfort

> Available in 5 convenient lengths:
9 mm, 12 mm, 14 mm, 16 mm and 18 mm

10 COILS PER PACK



Force	Wire Diameter	Inside Diameter	Length	Item #
Light 100 gm	0.009	0.030	9 mm	14-152-009
			12 mm	14-152-012
			14 mm	14-152-014
			16 mm	14-152-016
			18 mm	14-152-018
Medium 150 gm	0.010	0.030	9 mm	14-153-009
			12 mm	14-153-012
			14 mm	14-153-014
			16 mm	14-153-016
			18 mm	14-153-018
Heavy 200 gm	0.011	0.030	9 mm	14-154-009
			12 mm	14-154-012
			14 mm	14-154-014
			16 mm	14-154-016
			18 mm	14-154-018

5 COILS PER PACK

Infinity Closed Coil NiTi

- > Save chair time by using this new closed coil from IOS!

The infinity closed coil is specifically designed to be used with mini-implants. The eyelet has a unique shape on one end to allow a quick and an easy engagement of the closed coil without the need of using a ligature wire.

Force	Wire Diameter	Inside Diameter	Length	Item #
Medium 150 gm	0.010	0.030	9 mm	14-155-009
			12 mm	14-155-012
Heavy 200 gm	0.011	0.030	9 mm	14-156-009
			12 mm	14-156-012

- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomers
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

COIL SPRINGS

Rotating Spring

- › Corrects mesiodistal rotation of an individual tooth
- › Designed to work with vertically slotted brackets
- › Available in:
 - * Clockwise (Right): item # 14-211-100
 - * Counter-clockwise (Left): item # 14-211-101



Warren Spring

- › Designed to add Lingual Root Torque for an individual tooth
- › Works with rectangular, minimum .018 x .025
- › Item # 14-214-100



SS Separating Spring

- › Provides a continuous gentle force to separate tight contacts.
- › .022" wire diameter for easy insertion
- › Made from hard SS
- › Item # 14-215-100



10 PIECES PER PACKAGE



NiTi Separating Spring

NARROW

- › Perfect for fast and comfortable separation.
- › Ectopic eruption and patients with a narrow marginal ridge.
- › .016 x .022 NiTi wire.
- › Item # 14-215-102



10 SPRINGS PER PACKAGE

WIDE

- › New version of the narrow one.
- › Designed with large teeth in mind.
- › Wide configurations fit easily across the marginal ridge and stay out of occlusion.
- › .016 x .022 NiTi wire.
- › Item # 14-215-103



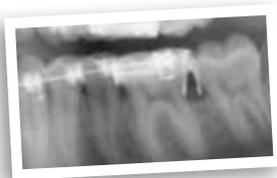
De-Impacting Spring

- › Separate or de-impact posterior teeth with minimal patient discomfort
- › Rectangular NiTi wire provides long range of action
- › Looped end for patient comfort
- › Item # 14-215-101

10 SPRINGS PER PACKAGE



Before



After 3 months

COIL SPRINGS

Uprighting Spring

- › Upright an individual tooth mesiodistally
- › Designed to work with vertically slotted brackets
- › Available in:
 - * Clockwise (Right): item # 14-212-100
 - * Counter-clockwise (Left): item # 14-212-101



10
SPRINGS
PER
PACKAGE

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Brass Spacers

- › Smashed end for easier insertion
- › Available in 2 sizes:
 - Small Item # 14-215-200
 - Large Item # 14-215-201

50
SPACERS
PER
PACKAGE



Steiner Wedge

- › Quick correction of minor tooth rotation
- › Use with single and twin brackets
- › Available in small and large sizes:
 - Small Item # 14-216-100
 - Large Item # 14-216-101

10
WEDGES
PER TUBE



X-Tubes



10
X-TUBES
PER
PACKAGE

X-Tubes

- › A great auxiliary to use with mini-implants and segmental mechanics
- › Universal size to accept round and rectangular wires
- › Item # 14-312-110

ULTRA FLEX LINGUAL RETAINER

SPPOOL/36"



Item # 14-515-102

Why is Ultra Flex a Top voted permanent retainer?

Ultra flex retainer is comparable and compatible with Ortho FlexTexh permanent retainer. However, IOS has designed its ultra Flex retainer with three unique features:

1. Higher flexibility

Note how the wire edge is more rounded allowing more flexibility. The higher flexibility will help for a better adaptability to the lingual surface of most anterior teeth.

2. Higher impact strength

This gives the retainer more power to absorb forces and resist breakage.

3. Higher polished surface to minimize plaque build up.

The benefits of Ultra Flex retainer:

- Excellent choice for retaining tooth position
- Improved patient comfort as it lays flat against the bonded teeth
- Excellent torsional strength as well as tensile strength
- Less chair time for the doctor



Tips:

- If the retainer is so flexible for you to handle; you might wet the retainer with a primer to make it less flexible
- You might need to use bird beak pliers to make some minor bends for some special shaped teeth
- If you have an odd shape lingual surface and you do not want to bend the retainer wire, do NOT place the composite on that tooth. Cure the other teeth first and then place the composite on the tooth and hold it in place with a fine explorer before curing it.
- This retainer might also be used as a splint to hold traumatized teeth, periodontic involved teeth, ... etc



IOS Ultra Flex™

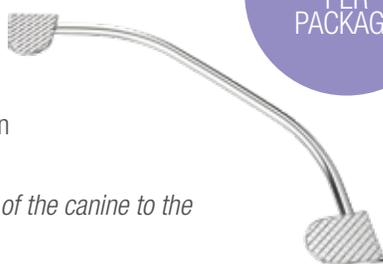


Other Retainer Wires

LINGUAL RETAINERS

Lingual Retainers 3 & 3

- › Heavy .032" diameter wire
- › Anatomical form and offset pads
- › Sandblasted mesh for increased retention
- › Available in 5 different sizes
- › Size is measured in mm from the center of the canine to the contra-lateral one
- › Kit contains 2 retainers of each size



2
RETAINERS
PER
PACKAGE



Size	Item #
22 mm	14-511-100
24 mm	14-511-101
26 mm	14-511-102
28 mm	14-511-103
30 mm	14-511-104
Kit	14-599-100

Lingual Retainers 2 & 2

- › Great for diastema cases
- › 028" wire with a central offset
- › Thin anatomical pad to minimize occlusal interferences
- › Available in 3 sizes
- › Kit contains two retainers of each size



2
RETAINERS
PER
PACKAGE

Size	Item #
14 mm	14-512-100
16 mm	14-512-101
18 mm	14-512-102
Kit	14-599-101

Lingual Retainers 3 to 3

- › Use in severe crowded cases where maximum retention is recommended
- › Act as a splint for any condition
- › Bendable connectors for perfect adaptation
- › Manufactured from .017" stainless steel with laminated mesh pad
- › Available in 5 different sizes for upper and lower
- › Kit contains one retainer of each size "10 total"



2
RETAINERS
PER
PACKAGE

Upper Size	Item #	Lower Size	Item #
32	14-513-100	29	14-514-100
34	14-513-101	31	14-514-101
36	14-513-102	33	14-514-102
38	14-513-103	35	14-514-103
40	14-513-104	37	14-514-104
Upper Kit	14-599-102	Lower Kit	14-599-103

TIP

Use our disposable mini ruler to measure the retainer size intra-orally

Lingual retainers should be checked periodically for broken bonds & accumulation of food or plaque

An easy and an economic way to retain the front teeth is the use of a multi-stranded wire .0195 as a retainer, check page 52

Item # 19-299-115

- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

LINGUAL RETAINERS



Gold chains provide an easy way to activate traction of impacted teeth

Classic Gold Eruption Chain

- > 24K gold plated eyelets and chain
- > Generous one inch .016" diameter chain to fit any impaction case
- > Safe for nickel sensitive patients
- > Round Neck Item # 14-611-101
- > Flat Neck Item # 14-611-102

1 CHAIN
PER PACK



Tongue Spikes

- > Simple way to stop tongue thrusting and thumb sucking
- > May be used on upper and lower teeth
- > Sand-blasted 80 gauge foil mesh base for maximum retention
- > Item # 14-613-100



10 SPIKES
PER
PACKAGE



10 WINGS
PER
PACKAGE



Bite Wings

- > Immediate bite opening
- > One to four may be placed on the lingual of upper anteriors
- > Sand-blasted base for maximum retention
- > Item # 14-613-200

Bondable Buttons

- › Round concave base for better adaptation
- › Smooth edges for minimum tongue irritation
- › One piece construction to minimize breakage



Regular Round:
Item # 14-612-100

Rectangular Flat:
Item # 14-612-102

Mini Round:
Item # 14-612-104

Rectangular Curved:
Item # 14-612-103



Rectangular Flat Gold: Item # 14-612-105

Bondable Eyelets

- › Great to bond hard-to-reach surfaces
- › Rectangular Item # 14-615-100
- › Round Item # 14-615-101



Clear Buttons

- › Ceramic button
- › Great to use with aligners
- › Rectangular Item # 14-612-110
- › Round Item # 14-612-111



Ligature Ties

Power Chains

Thread & Sleeves

Lip Protector

IntraOral Elastics

Separators

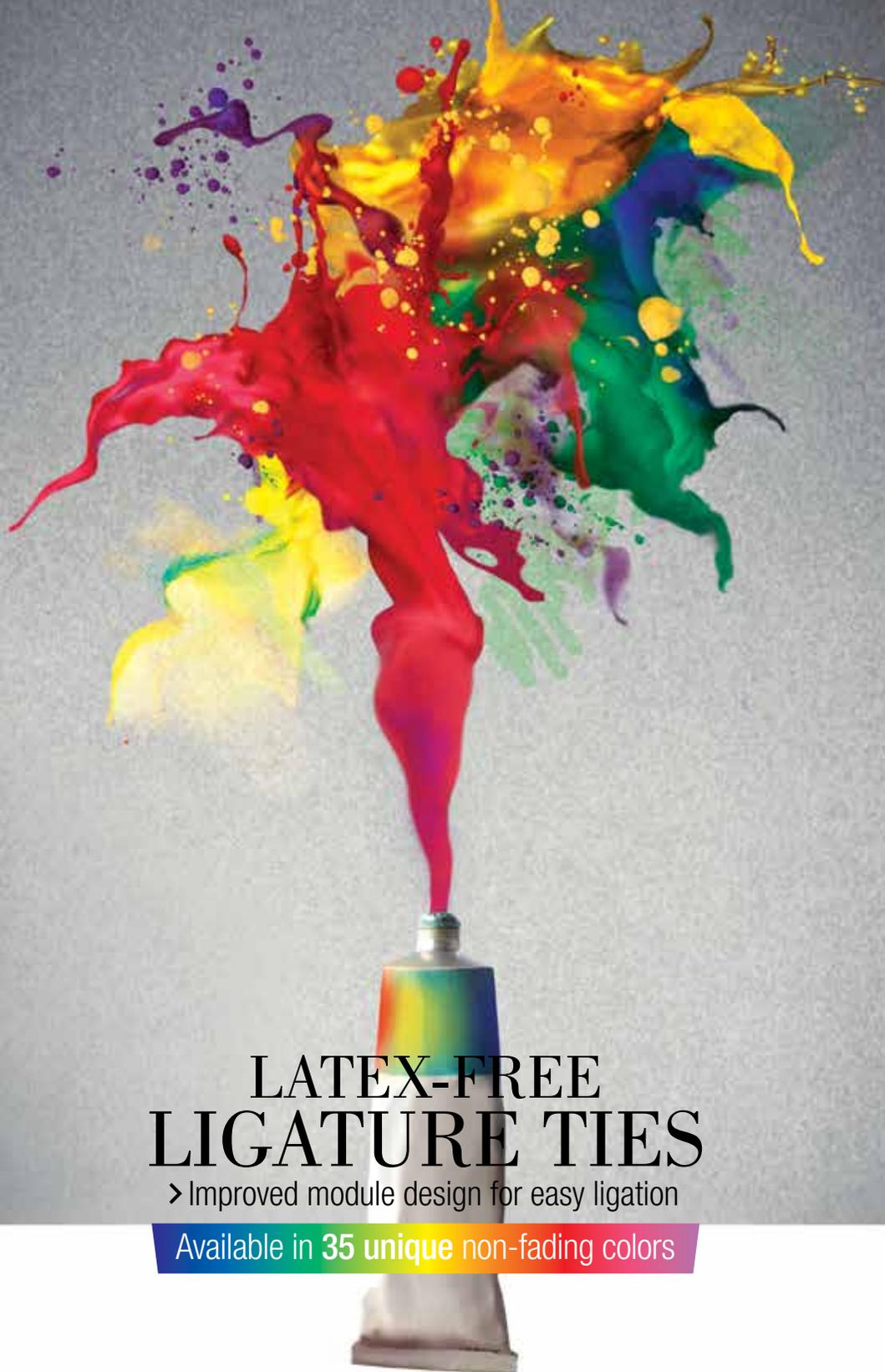
Bracket Guard Elastics

Elastic Placers

Rotation wedes

Extra Oral Elastics





LATEX-FREE LIGATURE TIES

> Improved module design for easy ligation

Available in **35 unique non-fading colors**

Use these ties to deliver less friction and allow teeth to move faster. Accepts figure 8 ligation method. Recommended to be used with all brackets. **Available in 2 types:**

REGULAR TIE

*Regular Tie: 24 modules per stick.
Good to ligate the whole mouth from
6 to 6. **42 sticks per pack.***

1008 TIES

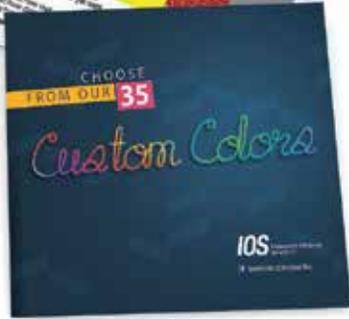
MINI TIE

*Mini Tie: 10 Modules per stick. Good to ligate
one single arch from 5-5. Great way to reduce
cross-contamination. **100 sticks per pack.***

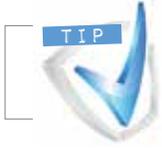
1000 TIES



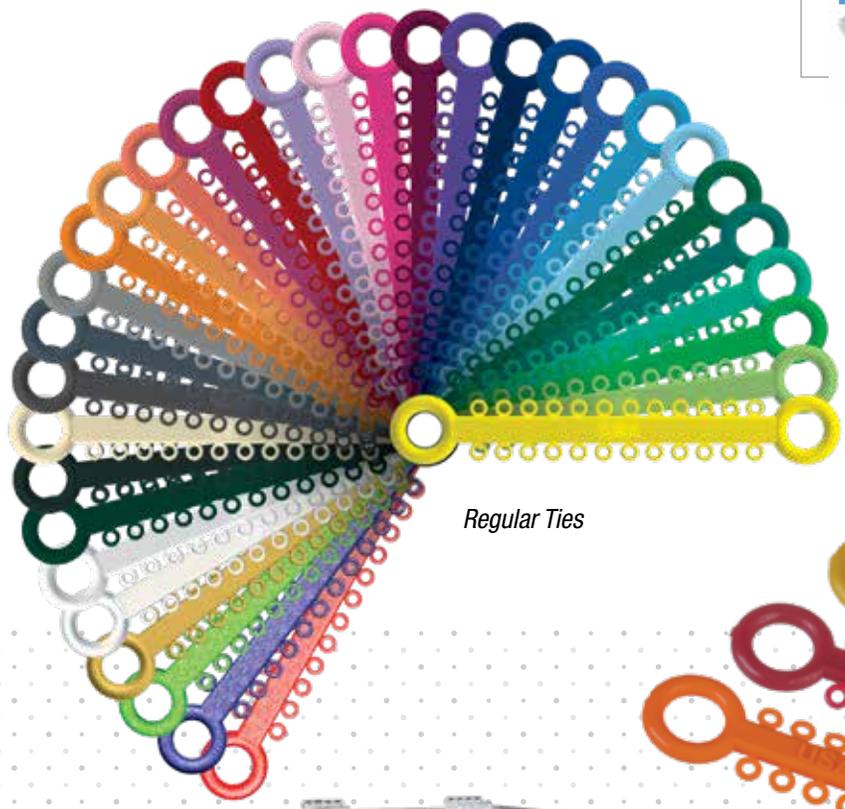
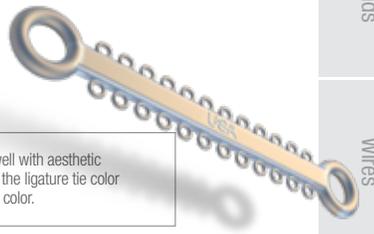
> Color Palette Guide
Item #15-000-001



Color	Regular	Mini	Color	Regular	Mini
Clear	15-111-100	15-112-100	Orange	15-111-118	15-112-118
Pearl	15-111-101	15-112-101	Yellow	15-111-119	15-112-119
Ivory	15-111-102	15-112-102	Emerald	15-111-120	15-112-120
Silver	15-111-103	15-112-103	Marigold	15-111-121	15-112-121
Gray	15-111-104	15-112-104	Gold	15-111-122	15-112-122
Baby Blue	15-111-105	15-112-105	Black	15-111-123	15-112-123
Light Blue	15-111-106	15-112-106	Turquoise	15-111-124	15-112-124
Royal Blue	15-111-107	15-112-107	Lilac	15-111-125	15-112-125
Midnight Blue	15-111-108	15-112-108	Smoke Gray	15-111-126	15-112-126
Carolina Blue	15-111-109	15-112-109	Kelly Green	15-111-127	15-112-127
Sparkle Blue	15-111-110	15-112-110	Glow in-the-dark	15-111-128	15-112-128
Fuchsia	15-111-111	15-112-111	Red	15-111-129	15-112-129
Teal	15-111-112	15-112-112	Sparkle Green	15-111-130	15-112-130
Purple	15-111-113	15-112-113	Neon Green	15-111-131	15-112-131
Baby Pink	15-111-114	15-112-114	Sparkle Red	15-111-132	15-112-132
Neon Pink	15-111-115	15-112-115	White	15-111-133	15-112-133
Periwinkle	15-111-116	15-112-116	Coral	15-111-134	15-112-134
Magenta	15-111-117	15-112-117			



TIP
Pearl color blends well with aesthetic brackets. Coordinate the ligature tie color with the power chain color.



Regular Ties



Mini Ties



Elastic Organizer
19-299-102



TADS
Brackets
Bands
Wires
Auxiliaries
Elastomers
Intra-Extra
Orals
Ties
Instruments
Miscellaneous

ULTIMATE POWER CHAIN



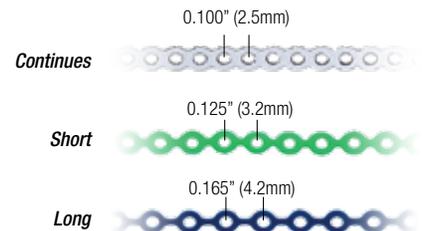
- > Stamped from thermoplastic medical grade polyurethane.
- > Latex-Free safe for sensitive patients.
- > High elasticity & excellent rebound that provides continuous force.
- > Available in 35 unique non-fading colors, 15 ft spool.

Color	Continuous	Short	Long	Color	Continuous	Short	Long
Clear	15-311-100	15-312-100	15-313-100	Orange	15-311-118	15-312-118	15-313-118
Pearl	15-311-101	15-312-101	15-313-101	Yellow	15-311-119	15-312-119	15-313-119
Ivory	15-311-102	15-312-102	15-313-102	Emerald	15-311-120	15-312-120	15-313-120
Silver	15-311-103	15-312-103	15-313-103	Marigold	15-311-121	15-312-121	15-313-121
Gray	15-311-104	15-312-104	15-313-104	Gold	15-311-122	15-312-122	15-313-122
Baby Blue	15-311-105	15-312-105	15-313-105	Black	15-311-123	15-312-123	15-313-123
Light Blue	15-311-106	15-312-106	15-313-106	Turquoise	15-311-124	15-312-124	15-313-124
Royal Blue	15-311-107	15-312-107	15-313-107	Lilac	15-311-125	15-312-125	15-313-125
Midnight Blue	15-311-108	15-312-108	15-313-108	Smoke Gray	15-311-126	15-312-126	15-313-126
Carolina Blue	15-311-109	15-312-109	15-313-109	Kelly Green	15-311-127	15-312-127	15-313-127
Sparkle Blue	15-311-110	15-312-110	15-313-110	Glow in-the-dark	15-311-128	15-312-128	15-313-128
Fuchsia	15-311-111	15-312-111	15-313-111	Red	15-311-129	15-312-129	15-313-129
Teal	15-311-112	15-312-112	15-313-112	Sparkle Green	15-311-130	15-312-130	15-313-130
Purple	15-311-113	15-312-113	15-313-113	Neon Green	15-311-131	15-312-131	15-313-131
Baby Pink	15-311-114	15-312-114	15-313-114	Sparkle Red	15-311-132	15-312-132	15-313-132
Neon Pink	15-311-115	15-312-115	15-313-115	White	15-311-133	15-312-133	15-313-133
Periwinkle	15-311-116	15-312-116	15-313-116	Coral	15-311-134	15-312-134	15-313-134
Magenta	15-311-117	15-312-117	15-313-117				

RECOMMENDED TO USE WITH

Chain Organizer

19-299-103



Keep your chains organized by using one of the power chain organizers, check page 139 for details.

THREADS & SLEEVES

ELASTOMERIC THREAD

- > Made from high quality elastomeric resin that provides unmatched strength and rebound.
- > **Available in 0.025 and 0.030 sizes.**
 - **Ultra Tuff thread** that maintains force over an extended period of time.
 - Highly stain resistant & has a unique rough surface that secures knots efficiently.

Size	Color	Length	Ultra Tuff
.025"	Gray	25 Ft spool	15-531-100
.030"	Gray	25 Ft spool	15-531-101
.025"	Clear	25 Ft spool	15-531-104
.030"	Clear	25 Ft spool	15-531-105



ARCHWIRE SLEEVES

- > Flexible, plastic tubing that fits the archwire to create a protective sleeve
- > Larger diameter will protect buccal mucosa from irritation in the bicuspid area
- > **Available in clear, gray, and tooth color in .018" and .027" diameters**



Color	.018	.027
Clear	15-541-100	15-551-100
Gray	15-541-101	15-551-101

TIP  Cut an archwire sleeve to a proper length and use it as a space maintainer.

LIP PROTECTOR

- > Improves patient comfort & eliminates patient wax.
- > Snaps easily into place and stays secure.
- > Great for wind instrument musicians.
- > Fits all types of brackets.
- > **One upper and one lower per pack.**
- > US Patent # 5037296.

Item # 15-940-100



- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomerics**
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

WELCOME TO

The Animal Kingdom



INTRAORAL ELASTICS

- > Manufactured from prime medical grade elastic.
- > Special packaging makes size identification & selection easy and fast.
- > Available in three types

- **Latex elastic:** Traditional amber color.
- **Non-Latex elastics:** Clear appearance, will not absorb water and will have a longer shelf life.
- **Neon elastics:** Latex elastics that patients really enjoy.

	1/8"	3/16"	1/4"	5/16"	3/8"
	3 mm	5 mm	6 mm	8 mm	10 mm
Light 2.5 oz 70 gms					
Medium 4.5 oz 125 gms					
Heavy 6.5 oz 180 gms					

Each box contains 50 bags of 100 elastics

TIP

Force level is determined by measuring the force generated when elastic is stretched three times its shack diameter.



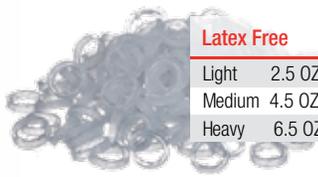
RECOMMENDED TO USE

Intraoral elastic box holder

Item # 19-299-114



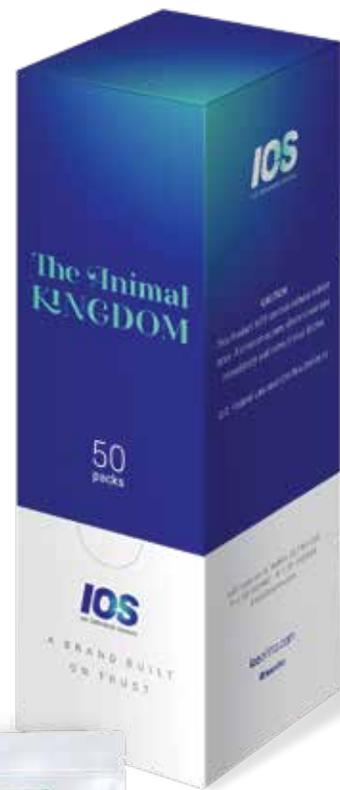
Latex		1/8	3/16	1/4	5/16	3/8
Light	2.5 OZ	15-211-100	15-211-101	15-211-102	15-211-103	15-211-104
Medium	4.5 OZ	15-212-100	15-212-101	15-212-102	15-212-103	15-212-104
Heavy	6.5 OZ	15-213-100	15-213-101	15-213-102	15-213-103	15-213-104



Latex Free		1/8	3/16	1/4	5/16	3/8
Light	2.5 OZ	15-221-100	15-221-101	15-221-102	15-221-103	15-221-104
Medium	4.5 OZ	15-222-100	15-222-101	15-222-102	15-222-103	15-222-104
Heavy	6.5 OZ	15-223-100	15-223-101	15-223-102	15-223-103	15-223-104



Neon		1/8	3/16	1/4	5/16	3/8
Light	2.5 OZ	15-231-100	15-231-101	15-231-102	15-231-103	15-231-104
Medium	4.5 OZ	15-232-100	15-232-101	15-232-102	15-232-103	15-232-104
Heavy	6.5 OZ	15-233-100	15-233-101	15-233-102	15-233-103	15-233-104



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

ELASTICS-SPACERS CYBER-SEPO

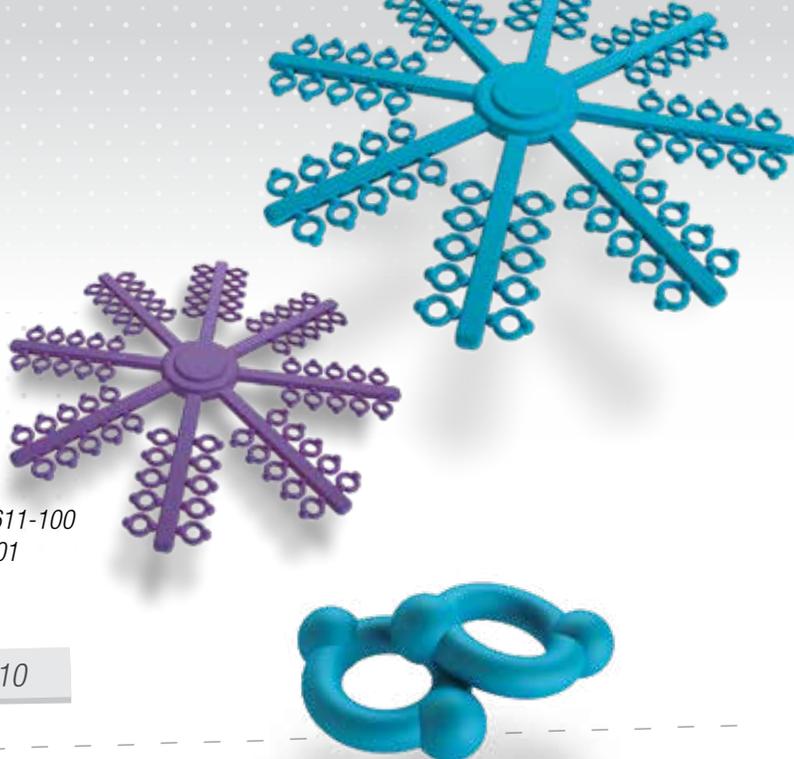
- > Designed to prevent sub-gingival loss.
- > High elasticity and extremely easy to remove.
- > **960 modules per bag.**

> Available in two forces:

- Light blue for moderate force, Item # 15-611-100
- Purple for heavier force, Item # 15-611-101



Separating Plier Item # 18-610



1000
MODULES
PER BAG

RADIO-OPAQUE SEPARATORS

- > IOS radio-opaque separators show up clearly on x-rays.
- > Heat cured elastic retains resiliency.
- > Latex-Free separators.
- > Available in regular size and large size for posterior teeth
 - Regular size, Item # 15-611-102
 - Large size, Item # 15-611-103



BRACKET
GUARD™
ELASTICS



- > Latex Free Elastics
- > Reduces tooth contact with brackets on mandibular teeth
- > Injection molded memory material
- > 0.124 in. (3.1mm) outer diameter

> Available in:

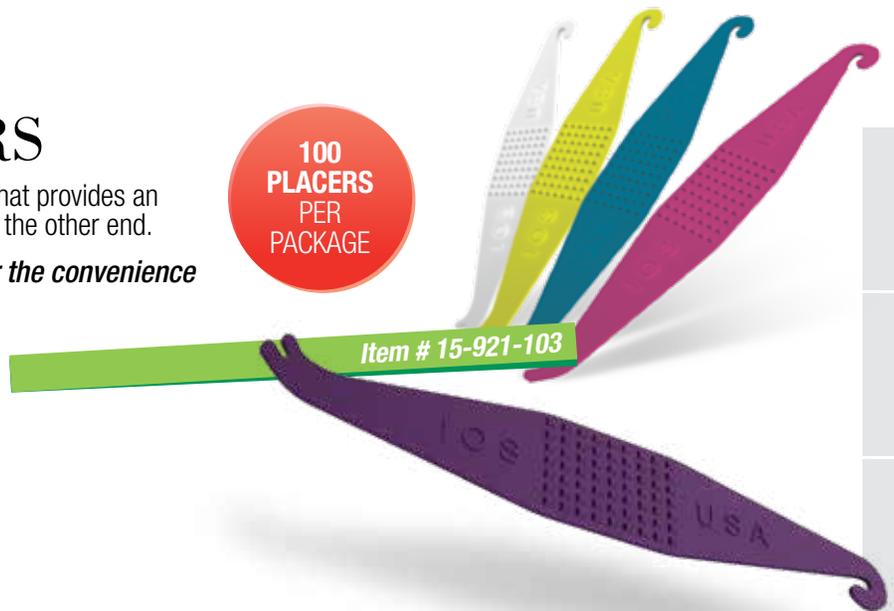
- Clear: Item # 15-613-102
- Silver: Item # 15-613-103

Disc Dispenser
100 modules
per package



ELASTIC PLACERS

- > IOS Elastic Placers have a unique design that provides an elastic hook on one end and a remover on the other end.
- > *Elastic Placers are an excellent tool for the convenience of patients who wear elastics.*
- > Use with traditional braces & Invisalign™



ROTATION WEDGES

- > Easy to use with twin brackets, sits securely in a vertical direction.
- > Best to correct minor incisors rotation.
- > **Available in clear and gray:**
 - *Clear:* Item # 15-613-100
 - *Gray:* Item # 15-613-101

EXTRAORAL ELASTICS

- > Great to use with Face Masks, Headgears, Hickam chin caps and other appliances.

Diameter		8 oz 225 gms	16 oz 454 gms
1/4"	6mm	15-251-100	15-252-100
5/16"	8mm	15-251-101	15-252-101
3/8"	10mm	15-251-102	15-252-102
1/2"	13mm	15-251-103	15-252-103



- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Eastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

FACEBOW

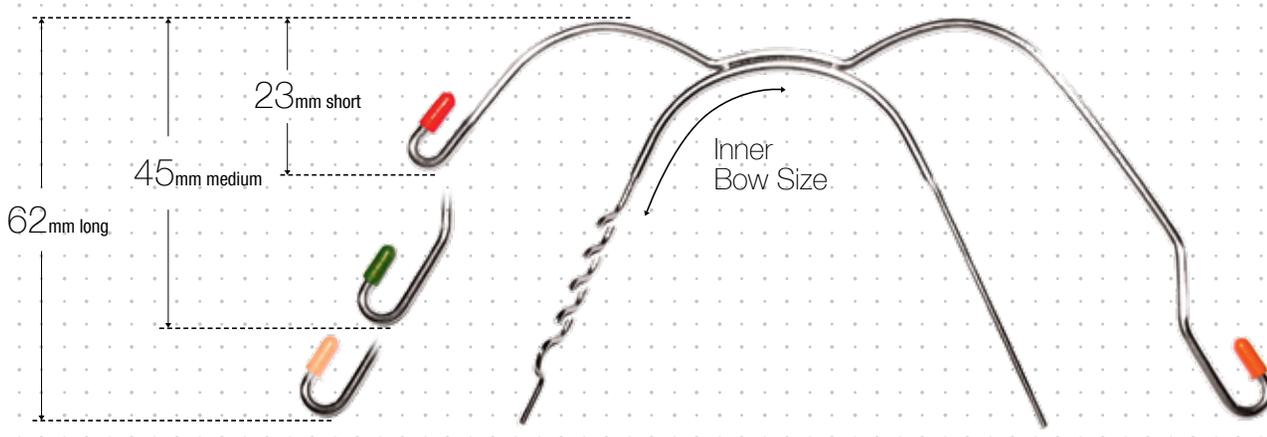
Each face bow is constructed from two pieces welded together by laser:

AN OUTER BOW

3 different sizes, 0.72" diameter, and a protection cap at the end.

AN INNER BOW

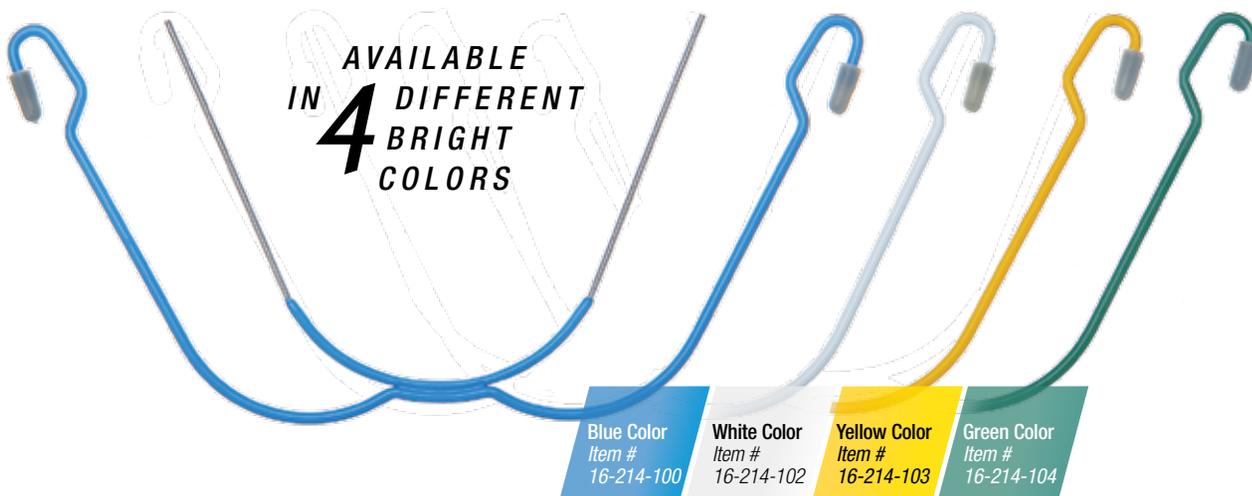
6 different sizes with or without a vertical loop, 0.45" diameter.



Inner Bow	Outer Bow	Size 1 41.5 mm	Size 2 45 mm	Size 3 48.5 mm	Size 4 52 mm	Size 5 55.5 mm	Straight
Short	23mm	16-211-101	16-211-102	16-211-103	16-211-104	16-211-105	16-211-100
Medium	45mm	16-212-101	16-212-102	16-212-103	16-212-104	16-212-105	16-212-100
Long	62mm	16-213-101	16-213-102	16-213-103	16-213-104	16-213-105	16-213-100

Universal Colored facebow

- Enhances patient compliance
- Extremely durable coating
- Standard outer .072" wire & .045" inner wire



Blue Color
Item #
16-214-100

White Color
Item #
16-214-102

Yellow Color
Item #
16-214-103

Green Color
Item #
16-214-104

FACEBOW ACCESSORIES

GENERIC NECK PADS

- > For cervical pull headgear & J-hook
- > Washable and color safe
- > Two 3/4" loops each side

Color	Item #
Blue	16-221-100
Red	16-221-101
Purple	16-221-102
Green	16-221-103
Black	16-221-104



PK/1

BOTH
AVAILABLE IN
5 DIFFERENT
COLORS

COMFORT NECK PADS

- > Extra thick pad for extra comfort
- > For cervical pull headgear & J-hook
- > Made from 100% cotton
- > Washable and color safe
- > Two 3/4" loops each side

Color	Item #
Blue	16-221-120
Red	16-221-121
Purple	16-221-122
Green	16-221-123
Black	16-221-124



PK/1

SAFETY RELEASE MODULES

- > Optimal patient comfort with a plastic release clip 10 oval holes for easier facebow placement and progression in force application
- > Attaches easily to any neck pad
- > Available in three different force levels:
 - Light force 450 gm
 - Medium force 600 gm
 - Heavy force 750 gm

Color	LIGHT	MEDIUM	HEAVY
	450 gm	600 gm	750 gm
White	16-241-100	16-242-100	16-243-100
Blue	16-241-101	16-242-101	16-243-101
Black	16-241-102	16-242-102	16-243-102
Yellow	16-241-103	16-242-103	16-243-103
Red	16-241-104	16-242-104	16-243-104
Green	16-241-105	16-242-105	16-243-105



AVAILABLE IN
6 DIFFERENT
COLORS

1 PAIR
PER PACK

heavy duty internal coil spring



fatigue resistant

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

GENERIC HIGH PULL HEAD CAP



- › For high pull headgear, chin cap and J-hook headgear
- › Washable and color safe
- › Two hook-up tabs
- › Cheek protector

AVAILABLE IN
5 DIFFERENT
COLORS

Color	Item #
Blue	16-222-100
Red	16-222-101
Purple	16-222-102
Green	16-222-103
Black	16-222-104

PK/1

Activator Tube "Rotational"

- › Allows tube to swivel when needed
- › High quality Stainless Steel
- › Accepts 0.045" wires

2 PER PACK

Item # 16-999-101



Activator Tube "Rigid"

- › A must use for headgear with functional appliances
- › High quality Stainless Steel
- › Accepts 0.045" wires

2 PER PACK

Item # 16-999-100



CHIN CAP

- › High-pull instant-fit chin cap
- › Opposes class III growth tendency and provides retention after class III correction
- › Designed to exert posterior and superior force on the mandible through the chin

Size	Item #
Chin Cap Set "Small"	16-261-100
Chin Cap Set "Large"	16-261-101
Traction band "Pair"	16-261-102
Head cap	16-261-103
Chin Cap "Small"	16-261-104
Chin Cap "Large"	16-261-105



Adjustable strips to fit patient's head securely & comfortably

Soft chin cap, sturdy yet delicate. Available in small and large

Adjustable traction bands to change force level as needed

TADS
Brackets
Bands
Wires
Auxiliaries
Elastomers
Intra-Extra Orals
Adhesives
Instruments
Miscellaneous

Molded Lip Bumpers

- › White shield with optimum thickness
- › Vertical loop for easy height adjustment
- › A soldered hook for elastic attachment

PK/1

Size	MM	Item #	Size	MM	Item #
1	83mm	16-411-100	4	104mm	16-411-103
2	90mm	16-411-101	5	111mm	16-411-104
3	97mm	16-411-102			



AVAILABLE IN 5 DIFFERENT SIZES for .045" tubes



FACE MASK

- › A must use in cases with midfacial deficiency, CLP and similar cases.
- › Full range of motion option.
- › Free-flow air vents.
- › Maximum patient comfort.
- › Fully adjustable.
- › Light weight.

KIT INCLUDES
FACE MASK
1 HEXAGON KEY,
2 SETS OF CHIN
RESTS, AND
FOREHEAD PADS

RED COLOR
Item # 16-111-104



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

“AVAILABLE IN
5 COLORS”



DYNAMIC CHIN CAP

New Sliding design allows for a dynamic range of motion without a side-to-side rotation



CLEAR
Item # 16-111-100

Replacement Pads 16-112-100



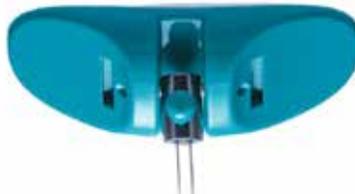
PEARL
Item # 16-111-103

Replacement Pads 16-112-100



RED
Item # 16-111-104

Replacement Pads 16-112-100



TEAL
Item # 16-111-102

Replacement Pads 16-112-100



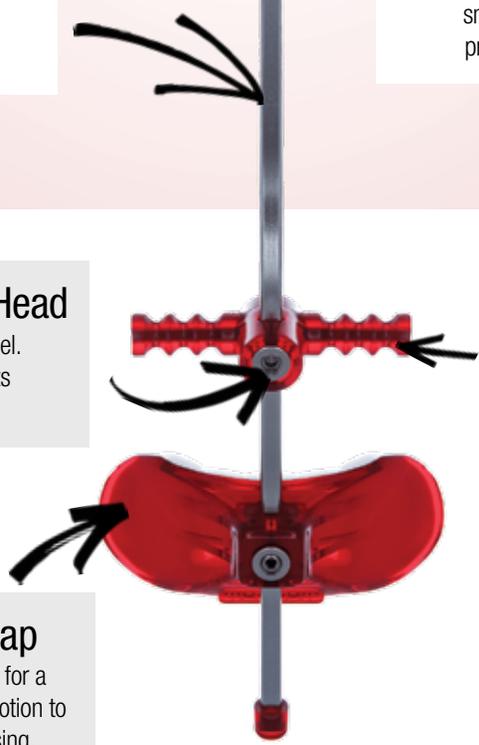
BLUE
Item # 16-111-101

Replacement Pads 16-112-100



Vertical Main Frame
Highest quality Stainless Steel. Flat surface to prevent parts rotation.

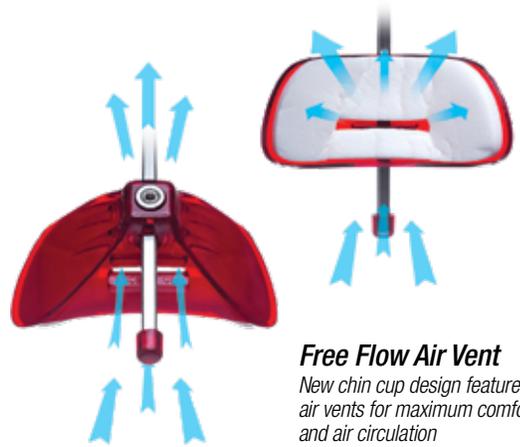
Ergonomic Forehead Rest
smooth molded plastic with replaceable foam cushion



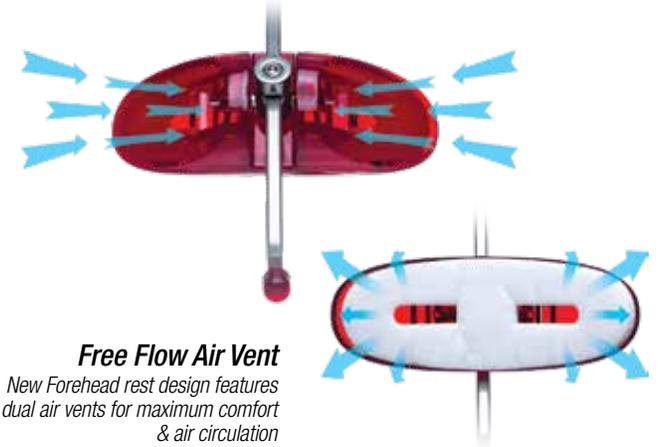
New Larger Screw Head
Highest quality Stainless Steel. Flat surface to prevent parts rotation.

Horizontal Cross Bar
Adjustable for precise angle of force delivery. Multiple grooves to prevent elastic slippage.

Ergonomic Chin Cap
The set-screw gives the option for a fixed position or a full range of motion to allow mouth opening and closing.



Free Flow Air Vent
New chin cup design features air vents for maximum comfort and air circulation



Free Flow Air Vent
New Forehead rest design features dual air vents for maximum comfort & air circulation

TRUEBOND™

True-Bond is a no-mix chemically cured adhesive that bonds to ceramic and stainless steel brackets. Simply apply a thin coat of adhesive to the bracket base and place the bracket on the primed tooth.

MAXIMUM ADHESIVE STRENGTH IS REACHED IN

5 minutes

TrueBond Kit

- > 1 syringe with 5 gm of adhesive
- > 1 syringe of 3 ml gel etch
- > 1 bottle of 6.0 ml primer
- > 1 pack of 30 microbrushes
- > 1 mixing pad 2 1/8" x 2 3/4"
- > Item # 17-111-101

Replacement Part

- > 5 gm TrueBond adhesive in a syringe, Item # 17-911-100
- > 6 ml TrueBond primer, Item # 17-911-101
- > Mixing pad, Item # 17-911-103



TRUEBOND LC™

True-Bond LC represents a state-of-the-art technology, offering the most desirable characteristics, from the point of view of versatility, ease of handling, esthetics and reliability. High light sensitivity of the material allows for the use of the adhesive, not only for bonding the translucent (plastic or ceramic) brackets, but also, light impermeable metal ones. Simple procedure relief from pressure results in reproducible bonding strength and allows for precise bracket placement.

LIGHT CURED

TrueBond LC Kit

- > 1 syringe with 5.0 gm of adhesive
- > 1 syringe of 3 ml gel etch
- > 1 bottle of 3.0 ml primer
- > 1 pack of 30 microbrushes
- > 1 mixing pad 2 1/8" x 2 3/4"
- > Item # 17-112-101

Replacement Part

- > 5 gm TrueBond LC adhesive in a syringe, Item # 17-912-100
- > 3 ml TrueBond LC primer, Item # 17-912-101
- > Mixing pad, Item # 17-911-103



Banding Adhesives

DURABOND™

A fast, easy and convenient total-etch, single-component bonding agent offering exceptional bond strength.



6 gm
PER
BOTTLE

Benefits

- > Excellent extra shear bond strength provides exceptional bonding performance.
- > Cap snaps securely shut minimizing evaporation.
- > Nanofiller is stable and will not settle out of dispersion.
- > Ethanol/water-based adhesive maintains its shear bond strength over time to yield an outstanding shelf life.

Indications for Use

- > All direct, light-cured bonding procedures with metal brackets, ceramic brackets & lingual braces.
- > Excellent choice to use for invisalign™/clear correct™ attachments.
- > Indirect bonding procedures.

Recommended with TrueBondLC 17-912-100.

Item # 17-912-102

CLINICAL TIP
AIR DRY & LIGHT CURE
FOR MAXIMUM STRENGTH

BAND GUARD™

- > Provides a fast and easy way to bond bands with the strength needed
- > **Fluoride release** promotes remineralization and prevents decalcification under the bands
- > Acid etch is not necessary and curing occurs in less than 30 seconds
- > Light cured

> Item # 17-211-100



5 gm
PER
SYRINGE

BAND GUARD™ plus

AUTOMIX DUAL CURE GLASS IONOMER BAND CEMENT WITH FLUORIDE RELEASE

- > Save time with the automix tip. No more messy mixing
- > Chemical curing in 3-5 minutes or immediately cured using a dental curing light
- > Fluoride releasing cement is beneficial for every banded tooth to prevent enamel decalcification
- > Satisfaction guaranteed

Available in 2 colors:

- > Blue shade: Item # 17-211-120
- > A2 shade: Item # 17-211-121

> INCLUDING 5 MIXING TIPS

10 gm
PER
SYRINGE



GLASS IONOMER CEMENT

- > Flows easily to cover the entire crown during the banding procedure
- > Fluoride releasing cement is beneficial for every banded tooth to prevent enamel decalcification
- > Prolonged sitting time "3 minutes" for easier appliance cementing

Available in 2 sizes:

- > **Regular kit:** 15 gm powder, 15 ml liquid, mixing pad & a spoon. Item # 17-211-102
- > **Economy kit:** 100 gm powder, 60 ml liquid, mixing pad & a spoon. Item # 17-211-103



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Regular Gel Etch Blue

ETCHANTS

- > 38% phosphoric acid etch gel
- > Outstanding formula contains phosphoric acid, wetting agents, soluble thickeners and FDA certified dye
- > Special viscosity designed for maximum working control
- > Formulated to wash off completely and easily without residue
- > Recommended etching time for enamel is 15-20 seconds

Available in:

- > 6ml (3ml x 2 syringes), Blue Item # 17-313-105
- > 50ml (25ml x 2 syringes), Blue Item # 17-313-106
(Comes with 5 x 3ml empty syringes)



CERAMIC ETCH YELLOW

- > 10% hydrofluoric acid gel conditions porcelain or ceramic surfaces prior to bonding.
- > Use prior to IOS Porcelain Primer.
- > Item # 17-313-202



LIQUID DAM

- > Apply on the gingiva or tooth surfaces prior to etching to protect the gingiva from burning.
- > May also be used prior to bleaching, sandblasting or other procedures requiring intraoral protection, or use to block out undercuts prior to taking impressions.
- > Fast light cure.
- > Stays where placed, does not run.
- > Remains flexible after curing. Tear resistant. Easy to remove.
- > Moisture friendly and adheres to itself.
- > Item # 17-313-201



TOPICAL ANESTHETIC GEL

- > Use for temporary pain relief during bandings, Laser applications and other procedures
- > Benzocaine 20%
- > Rapid acting, long lasting with no bitter taste
- > 1 fl oz. (29.6 ml)



Mint flavor Item # 17-412-100 Cherry flavor Item # 17-412-101

PORCELAIN PRIMER

Porcelain Primer is a silane coupling agent in an alcohol base that is used to improve bonding between porcelain and resin based adhesives.

Item # 17-411-100





MICROBRUSH® PLUS

- > Patented design with bendable neck facilitates the placement of material in difficult areas.
- > Non-absorbent, non-linting fibers suspend solutions as small as 1/8 of a drop without dripping or spilling.

400
PER PACK

- > Brush Size 2.0 mm
- > Pack Color purple, blue, peach, and green
- > Item # 17-512-100



ADs

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

APPLICATOR DISPENSER

- > Built-in Silver-based SION technology for antimicrobial benefits
- > Designed to release one applicator at a time
- > Dispenser comes filled with 100 applicators
- > MicroBrush dispenser Item # 17-591-100

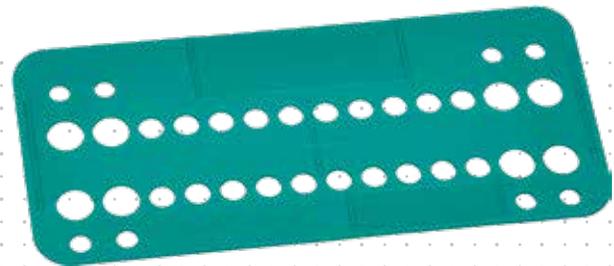


Bonding Supplies

BONDING TRAYS

- > Hold Bonding Trays a full case of 7 to 7
- > Single use only
- > Teal color
- > Item # 17-521-103

25
TRAYS PER
PACK



MIXING PADS

- > Liquid resistant surface
- > Smooth finish surface
- > 50 sheets per pad

5 PADS
/PACK



Available in 2 1/8" x 2 3/4"
Item # 17-911-103



100
TIPS PER
PACK

DISPENSING TIPS

- Designed for placing etchants, cements and other flowable materials.
- Blunt end is pre-bent to the proper angle.
- 20 gauge tip.

Item # 17-535-102

DISPENSING BRUSH TIP

Designed for precise application of flowable material

Item # 17-535-110

10
TIPS PER
PACK



Cutters
Bending Pliers
Special Pliers
Banding Pliers
Debonding Pliers
Utility Pliers
Banding Instruments
Bonding Instruments
Aligner Pliers
Double Ended Instruments
Tying Instruments
Sterilization instruction



brilliant™

I N S T R U M E N T S



B RILLIANT™ INSTRUMENTS ARE MADE FROM THE HIGHEST QUALITY FORGED STAINLESS STEEL. FORGED INSTRUMENTS ARE STRONGER THAN CASTED INSTRUMENTS. ORBITAL JOINT FOR MAXIMUM PERFORMANCE & DURABILITY. SUPERIOR PERFORMANCE OVER BOX AND HEX JOINT.

IOS's Exclusive Warranty

All instruments manufactured by IOS carry a Five-Year warranty on material, workmanship, and corrosion resistance. With normal maintenance and proper use, these high quality instruments will work for years!

Distal End Cutter

“Non TC CUTTER”

Distal End Cutter

Safely cuts and securely holds distal end of arch wires. Precise cut to prevent wire deformation. 0.5 mm clearance.

Max: .021x.028 SS, NiTi, TMA

Regular handle Item # 18-110

Long handle Item # 18-112
Provides better access to clip wires behind second molars.

Distal End Cutter

Flush Cut w/safety

Prevents patient discomfort by cutting wires flush to the molar tubes. Sharper head for smooth and clean cut.

Max: .021x.028 SS, NiTi, TMA

Item # 18-113



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

STANDARD HARD WIRE CUTTER

will cut straight through
the **toughest wires**



Standard Hard Wire Cutter

*Specially designed to cut hard wires.
Designed to cut pins, ligatures, any wire
size up to .021 x .028 SS, NiTi TMA*

Straight head Item # 18-120

Ligature Straight Cutters

FOR MAXIMUM PERFORMANCE OF LIGATURE CUTTERS:

- Do not cut braided ligature wires.
- Do not cut wires exceeding the maximum cutting capacity of the instrument.
- Do not cut any archwire.

Pin & Ligature Cutter

Special steel insert for maximum durability. Designed to cut pins, ligatures, any wire size up to .012

Straight head Item # 18-130

15° Head Item # 18-132



Mini Pin & Ligature Cutter

Same as Pin & Ligature Cutter, 25% smaller head; maximum wire size .012"

Straight head Item # 18-131

15° Head Item # 18-133



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Bending Pliers



BIRD BEAK PLIER

Most popular plier to bend archwires during regular adjustments. Fine tip with .025" diameter.

Max: .021 x .028 SS

With groove Item # 18-201

Without groove Item # 18-202



BIRD BEAK PLIER WITH CUTTER

Same as our regular bird beak plier with cutter on the back.

Max: .021 x .028 SS

With groove Item # 18-203

Without groove Item # 18-204

HEAVY DUTY BIRD BEAK, "ADAM'S PLIER"

Designed to bend heavy wires and adjust retainers.

Tip is .030" wide.

Max: .036" SS

Item # 18-205



Bending Pliers

JARABAK PLIER

Ideal to create and manipulate loops, with serrated tips for secure wire holding.

Item # 18-208



Item # 18-209



3 in 1® PLIER

This unique plier features **three distinct surfaces**:

- **Bird beak tip** for bending wires up to .020" with two grooves on the tip.
- **Hollow chop** surface for contouring and reshaping arch wires.
- **Hard wire cutter**.

LIGHT WIRE PLIER

Designed to make precise bends and loops with longer nose. Max: .020 SS, TMA

With groove Item # 18-206

Without groove Item # 18-207



TWEED CONTOURING PLIER

Ideal for bending square and rectangular wires. Use this plier to make step up, step down, apply positive or negative torque, etc. Tips are parallel when opened to .020" Max: .021 x .028 SS

1.0 mm thickness Item # 18-220

1.5 mm thickness Item # 18-221



THREE PRONG PLIER

The Double Tip is designed in one piece for maximum strength. Great for making V-bends extraorally or for retainer adjustment.

Item # 18-210



MINI THREE PRONG PLIER

Designed to bend NiTi wires permanently. Tiny head enables intraoral adjustment. Max .019 x .025 NiTi, .018 SS

Item # 18-211



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

└ Bending Pliers

Tweed Loop Forming Plier

Traditional Tweed plier for making consistent omega and other loops. Three sections of .045", .060", and .075" diameters. Serrated tip for even wire holding. Max: .019 x .025 SS, TMA

Item # 18-230



- Make a Ballista loop quickly with this plier

Vertical Loop Forming Plier

All you need to make retraction loops. 2mm, 3mm, 4mm and 5mm vertical loops. Works with round and rectangular wires.

Item # 18-308



Hollow Chop Plier

Contouring plier to reshape archwires. Max: .021 x .028 SS

Item # 18-258

NiTi Chilling Tool

Use this lightweight wand to chill and instantly soften thermal NiTi archwires. Simply fill the tube with water and place it in the freezer. Once frozen, you are ready to go.

Item # 18-881



Slotted head for easier wire placement.



Special Bending Pliers

CINCH
BACK
PLIER



Double-headed plier designed to cinch back SS and NiTi wires in all quadrants. Double head for easy access to right and left sides.
Max, .019x.025 NiTi, .016x.022 SS

Item # 18-301

LINGUAL
PLIER



Perfect for making TPA and its activation. Creates double back and triple back bends in .030 and .036 lingual arch wires.

Item # 18-302

DETAILING
PLIER



Double-sided intraoral plier to apply quick step up or step down without removing the wire.
Max: .021 x .028 SS, TMA and Braided wire.

1 mm step Item # 18-303
1.5 mm step Item # 18-304

NANCE
PLIER



Ideal to create & manipulate loops with serrated tips for secure wire holding.

Four different loop heights

Item # 18-306

OMEGA LOOP PLIER

Traditional plier to make omega stops in a few quick steps.

Item # 18-307



1- Put a mark on the wire where the distal part of the stop will end.

2- Hold the plier so the vertical part will be DOWN for a mandibular stop and UP for a maxillary stop. In Fig. 2, the plier is positioned to form a stop for the LR6. Place the mark on the bottom distal beak relative to the molar*; in this case on the lower right beak.

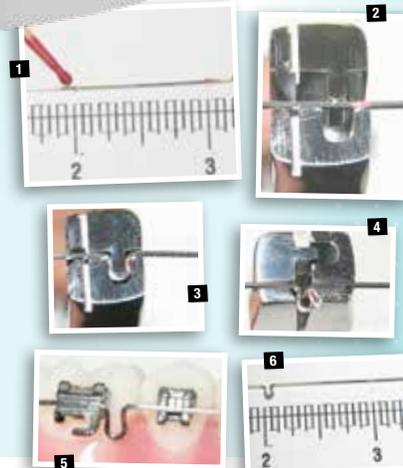
3- Squeeze the plier to form a nice U-shape loop.

4- Place the loop in the perpendicular slot of the plier and squeeze to the desired size, and...

5- The loop is ready.

6- Shows actual measurement of loop.

*The exact location may differ slightly based on the wire size.



TADS

IS

Bands

Wires

Elastomerics

Adhesives

Instruments

Miscellaneous

Special Pliers

Torquing Plier "Male"

Apply buccal or lingual torque to any individual tooth.

Max: .021x .028 SS or TMA

Item # 18-330



Torquing Plier "Female"

Apply buccal or lingual torque to any individual tooth.

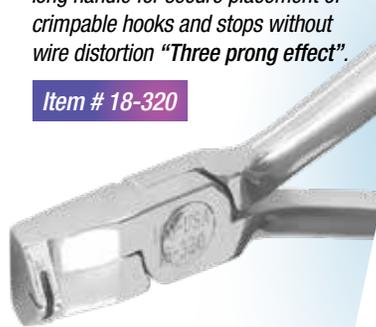
Item # 18-331



Crimpable Hook Plier

New design with beveled tips and long handle for secure placement of crimpable hooks and stops without wire distortion "Three prong effect".

Item # 18-320



Head Gear Plier

This Plier was designed to adjust and make vertical loops made of wire sizes up to .050" SS.

Long handle with heavy head for superior performance.

Item # 18-350



V-Bend Plier

This unique plier is designed to form permanent V-Bends on both SS and NiTi wires!! V-bends act as a stop to prevent wires from shifting, and could be applied to make the wire shorter.

Max: 19x25 SS & NiTi

Item # 18-305



Bandaging Pliers

BAND REMOVING PLIER

When the padded tip is on the occlusal surface, the non-padded tip lies securely under the attachment or the band edge for easy band removal.

Item # 18-401



PK/2

Replacement Pad
Item # 18-401-1
for both Items:
18-401, and # 18-402

BAND REMOVING PLIER SHORT

Shorter beak is preferred for large molar bands. May be used for appliance removal such as a bonded RPE.

Item # 18-402



BAND CONTOURING PLIER

Reshape crowns and bands for the perfect fit. Fine head and precise contouring.

Item # 18-405



BAND SEATING PLIER

This plier features a thin head to grip the buccal attachment securely while seating the band. The beaks are very strong, and the unique serration pattern makes it easier to manipulate the band.

Item # 18-410



CONVERTING PLIER

Designed to easily remove caps from convertible tubes. Long slim head to access hard-to-reach areas.

Item # 18-411



Replacement Blade
Item # 18-411-1

Debonding Pliers

NARROW DEBONDING PLIER

Narrow tips wedge between the bracket base and the tooth surface to lift the bracket with no stress. May be used mesio-distally or occluso-gingivally.

Item # 18-430

Replacement Tips
Item # 18-430-1

PK/2



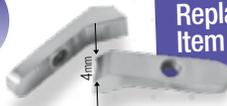
WIDE DEBONDING PLIER

Same great features as 18-430 but with wider tips.

Item # 18-431

PK/2

Replacement Tips
Item # 18-431-1



ANGLED DEBONDING PLIER

Designed to remove all attachments in the anterior and posterior region. Angled perfectly for easy access to difficult posterior and lingual areas.

Item # 18-432



ADHESIVE REMOVING PLIER

Sharp inserted beak fits under the adhesive remaining on the tooth for easy removal. Pads are suitable for high autoclavable sterilization.

Item # 18-440

PK/2

Replacement Pad
Item # 18-440-1



CERAMIC BRACKET DEBONDING PLIER

This plier was designed to remove ceramic brackets easily without the risk of shattering. The beaks are specifically engineered to apply even pressure on the bracket causing it to collapse. Could be used for SS brackets.

Item # 18-435



- 1 Remove archwire.
- 2 Place the plier flush on the bracket mesio-distally. Do not use it occluso-gingivally as the wings will break.
- 3 Gently squeeze the bracket to collapse. Do not apply too much pressure as the bracket may fracture.

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

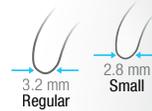
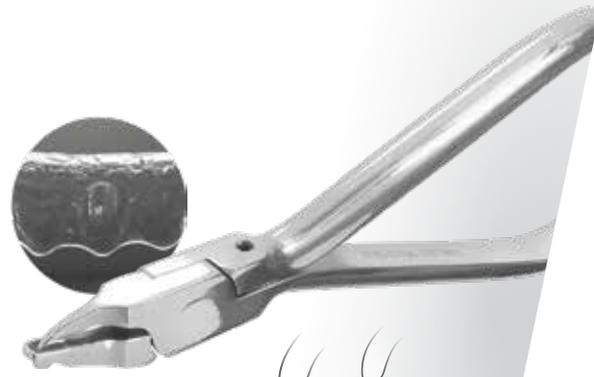
Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Aligner Pliers



Plastic Preforming Plier

Emphasizes over-correction of rotations by producing an indentation at the mesial or distal line angles on the facial and/or lingual side of a specific tooth.

Regular head Item # 18-361
Small head Item # 18-360

The Horizontal Pliers

· The Horizontal instrument produces an indentation to accent individual root torque.

· It also serves a second purpose by enhancing retention of either clear aligners or retainers by placing an indent into a tooth's undercut or below a bonded attachment.

· Accent individual root torque by producing an indent at the gingival margin on either the buccal or lingual for any tooth in the arch form.

· Increase clear aligner or retainer retentiveness by producing a horizontal indent into the undercut of specific teeth or just under an attachment.

Item # 18-364



The Vertical Pliers

· A rotational couple can also be created using vertical indents on facial and lingual surfaces on opposing sides of a tooth.

· The Vertical can also be used to produce an indent to produce a mild "nudge" to enhance resolution of in-and-out discrepancies.

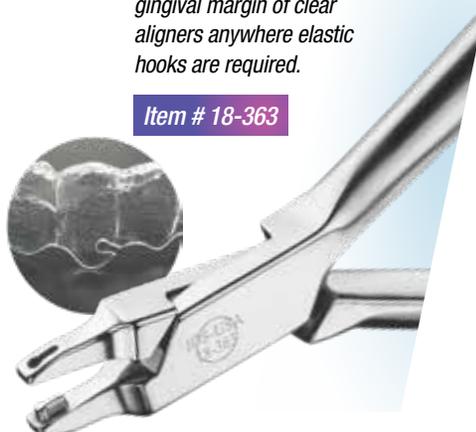
Item # 18-365



The Tear Drop

Creates a notch at the gingival margin of clear aligners anywhere elastic hooks are required.

Item # 18-363



The Hole Punch, 6mm

Creates half-moon cutouts for relief of clear aligners around bonded buttons used for elastics and nips away plastic to provide soft tissue clearance to prevent aligner impingement of tissue.

Item # 18-362



Utility Pliers

WEINGART PLIER

20° angled tip for maximum comfort. Convenient to work with. Smaller tip for easier access in hard-to-reach areas. Regular handle Item # 18-450 Long handle Item # 18-451



90° UTILITY PLIER

This plier has a 90° angled tip that facilitates TPA insertion and removal. Also great for lingual braces.

Item # 18-465



HOWE PLIER

Serrated tip for secure wire holding. Beaks are rounded for lip safety and comfort.

Item # 18-460



Lab Pliers

THREE PRONG PLIER

The Double Tip is designed in one piece for maximum strength. Great for making V-bends extraorally or for retainer adjustment.

Item # 18-210



ADAM'S PLIER

Designed to bend heavy wires and adjust retainers. Tip is .030" wide. Max: .036" SS

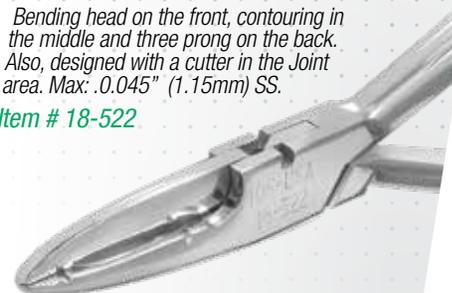
Item # 18-205



MULTI-FUNCTION LAB PLIER

Bending head on the front, contouring in the middle and three prong on the back. Also, designed with a cutter in the Joint area. Max: .0045" (1.15mm) SS.

Item # 18-522



HAWLEY PLIER

This is the plier to create perfect and consistent hawley loops for retainers. Serrated base secures the wire in place. The posterior part has a curved part for bending straight wires.

Item # 18-502



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Banding Instruments



18-620



18-621



18-622



18-623

BITE STICKS*

High quality plastic handle with metal serrated tip.

Autoclavable sterilizable up to 370° F/ 188° C.

Triangular head **Item # 18-620**

Round head **Item # 18-621**

Star head **Item # 18-622**

Reverse Triangular head **Item # 18-623**

* Plastic color may vary



BAND PUSHER

Special handle design for increased control during band seating. Serrated tip for slippage prevention.

Autoclavable sterilizable up to 370° F/ 188° C.

Item # 18-615



SEPARATING PLIER

Angled head for easier module placement.

Special tip design to prevent module slippage.

Opens wider for maximum stretching.

Autoclavable sterilizable up to 370° F/ 188° C.

Item # 18-610



DISTAL TISSUE RETRACTOR

Facilitates early 2nd molar banding by retracting the tissue covering the distal portion of the 2nd molar. Autoclavable sterilizable up to 370° F/ 188° C.

Item # 18-630

IOS BELIEVES THE SECRET OF
ITS SUCCESS IS CUSTOMER
TRUST IN EVERY PRODUCT
CARRYING THE IOS NAME



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomers

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Bonding Instruments



Item # 18-604

Direct Bonding Tweezer

Reverse action tweezer holds bracket securely. Autoclavable sterilizable up to 370° F / 188° C.



Item # 18-601

Ultra-Fine Tube Tweezer

Special offset for easier tube placement. Fine tip to hold tubes securely.



Item # 18-602

Reverse Ultra-Fine Tube Tweezer

Same as 18-601 but with a reverse action to hold the tube securely.



Item # 18-606

Cotton College Plier

High quality Stainless Steel. Autoclavable sterilizable up to 370° F / 188° C.



Item # 18-603

Narrow Bonding Tweezer

Slim tip for better bracket placement especially for posterior brackets and lingual attachments.



Item # 18-605

Buccal Tube Tweezer

90° angled tip for easy placement of buccal attachment, especially on 2nd molars. Reverse action tweezer holds buccal tubes securely.

MIXING SPATULA

Stainless steel construction. Autoclavable sterilizable up to 370° F / 188° C

Item # 18-640



BONE GAUGE

Measures height of bracket placement from incisal edge. 3.5 mm, 4.0 mm, 4.5 mm, 5.0 mm measurements. Autoclavable sterilizable up to 370° F / 188° C.

Item # 18-660



BRACKET GAUGE

Measures height of bracket placement from incisal edge. 3.5 mm, 4.0 mm, 4.5 mm and 5.0 mm measurements. Autoclavable sterilizable up to 370° F / 188° C.

0.018 Slot Item # 18-668

0.022 Slot Item # 18-662

Double-Ended Instruments

**MANUFACTURED FROM
HIGH QUALITY STAINLESS STEEL**

5 YEARS WARRANTY

Textured design for better gripping and control. High quality corrosion resistant stainless steel; sterilizable up to 356° F / 180° C.
Available in 8 double end varieties.



Left side curved sturdy tip. Use to remove elastics, position brackets and clean extra cement



Right side curved Sturdy tip. Use to remove elastics, position brackets and clean extra cement

Half curved posterior scaler. Use to clean band cement as well as removing calculus



Flat anterior ligature and wire director

Band pusher with serrated tip to prevent slipping. Also use to direct ligature wires and close clips for SL brackets



Half curved posterior scaler. Use to clean band cement as well as removing calculus

Angled posterior ligature and wire director



Flat anterior ligature and wire director

Extra fine flexible inter-proximal explorer



Extra fine flexible posterior explorer

Left side posterior wire bender. Use only with SS and TMA wires For rectangular wires



Right side posterior wire bender. Use only with SS and TMA wires For round wires

Full scaler for anterior teeth



Flat anterior ligature and wire director

Band pusher with serrated tip to prevent slipping



90 degree blunt sturdy tip for self-ligating bracket

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra Orals

Adhesives

Instruments

Miscellaneous

Tying Instruments

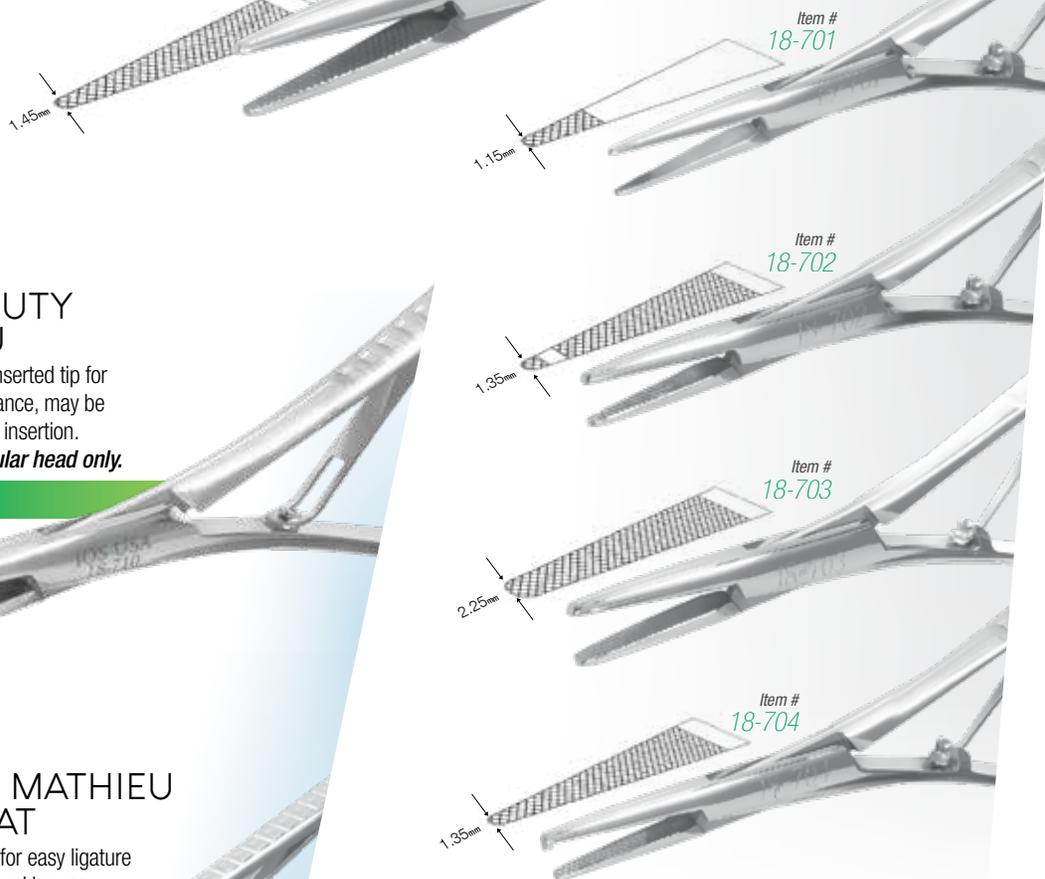
STANDARD MATHIEU HEMOSTAT

Item # 18-700

- Designed for regular elastic and SS ligature placement.
- High quality corrosion resistant stainless steel.

- Available in 5 shapes:

- **Narrow head;** for elastic application & SS ligature up to .010", **Item # 18-700**
- **Fine head;** delicate mathieu for elastic application only, **Item # 18-701**
- **Grooved head;** secure holding for elastics, **Item # 18-702**
- **Regular head;** general use, **Item # 18-703**
- **Hooked head;** secure holding for elastics, not suitable for SS ligature, **Item # 18-704**

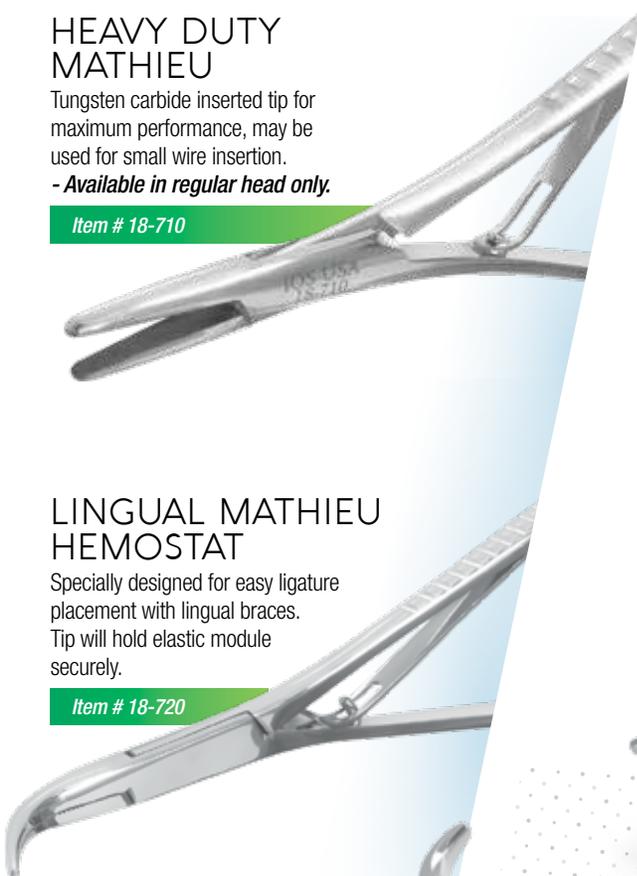


HEAVY DUTY MATHIEU

Tungsten carbide inserted tip for maximum performance, may be used for small wire insertion.

- Available in regular head only.

Item # 18-710



LINGUAL MATHIEU HEMOSTAT

Specially designed for easy ligature placement with lingual braces. Tip will hold elastic module securely.

Item # 18-720

CONE STYLE LIGATURE TYING PLIER

Designed for faster and tighter ligature tying. Chamfered slot for secure ligature holding.

Item # 18-730



✓ Sterilization



To maximize your instrument's life, follow these easy steps

1. Clean instruments in the ultrasonic for 7-10 minutes using proper solution. Ultrasonic is NOT recommended for cutting pliers as it could dull or damage the cutting edge. For cutters, use high-volume sterile water. Never use any hard objects such as metal brush or pan scrubber to clean instruments as this would destroy the outer surface and increase the danger of oxidation.
2. Rinse instruments with distilled or filtered water. Rinsing with regular tap water may contain a high level of silicate, which leads to stain formation on instruments during sterilization.
3. Dry instruments with compressed air, especially in the joint area.
4. Sterilize with:

Recommended

- **Autoclave:** Sterilize for 12 minutes at 134° C using sterile water. Do NOT mix rusty instruments with clean instruments as a rusty film could be formed on the clean instruments.

- **Dry Autoclavable:** Sterilize for 6 - 30 minutes at 160° C based on equipment instruction. Do NOT sterilize at temperatures exceeding 180° C as this may dull the cutting edges, impair the tip hardness, and/or cause discoloration. All hinged instruments should be placed open.

- **Cold (2% Glutaraldehyde):** Immerse instruments in the prepared bath for recommended time. Never leave instruments in the bath overnight or over the weekend. After cold sterilization, pliers and instruments must be thoroughly cleaned and rinsed with distilled water to remove any chemical residues.

Lubrication is recommended for hinged instruments with paraffin-oil spray. Do not use WD40. With dry autoclavable, only lubricate inside the joint as the outer area may get stained when contaminated.



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

Cheek Retractors

Mirrors

Expanders

Lab Accessories

Waxes

Retainer Cases

Hygienic solution

Organizers

Diagnostic Tools

Typodonts

Stripping Tools

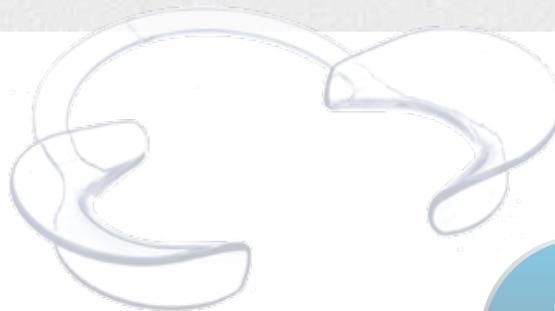
Burs



CHEEK RETRACTORS

AUTOCLAVABLE INTRAORAL CHEEK RETRACTOR

- > Great for initial bonding, giving you a full view of anterior and posterior teeth
- > Break resistant
- > Autoclavable up to 270° F (132° C)
- > Ultra-smooth surface for maximum patient comfort
- > Clear color



Available in 3 sizes:

- Small size; Item # 19-121-100
- Medium size; Item # 19-121-101
- Large size; Item # 19-121-102

**ONE
RETRACTOR
PER BAG**

DISPOSABLE INTRAORAL CHEEK RETRACTOR

- > Ultra-smooth surface for maximum patient comfort
- > White color
- > Cold Sterilizable
- > Great for initial bonding, giving you a full view of anterior and posterior teeth.



Available in 3 sizes:

- Small size; Item # 19-121-105
- Medium size; Item # 19-121-106
- Large size; Item # 19-121-107

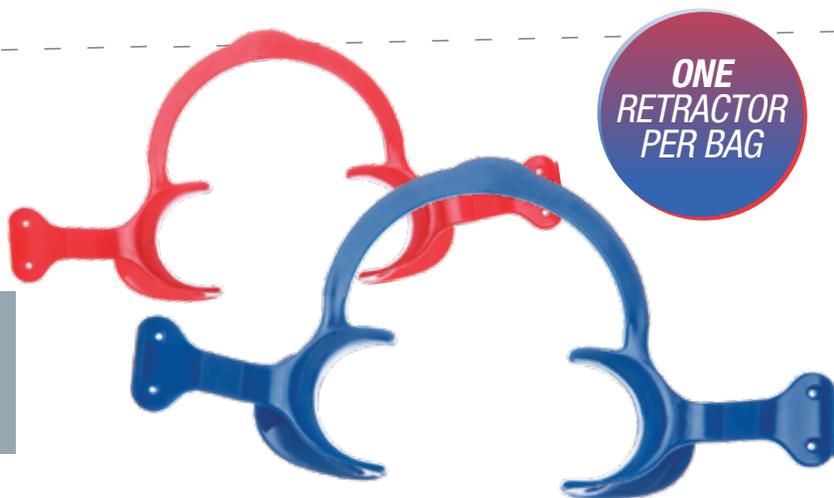
**FIVE
RETRACTORS
PER BAG**

SUPER CHEEK RETRACTOR

- > This retractor has an extra wing to push the cheek further away from buccal dentition
- > Autoclavable up to 270° F (132° C)
- > Ultra-smooth surface for maximum patient's comfort

Available in 2 sizes:

- Small size; Red, Item # 19-121-103
- Large size; Blue, Item # 19-121-104



**ONE
RETRACTOR
PER BAG**

INTRAORAL CHEEK RETRACTOR WITH TONGUE DEPRESSOR

- > Great for initial bonding to provide you with maximum view of all the teeth
- > Tongue depressor ensures field dryness
- > Break resistant crystal clear plastic tray
- > Autoclavable up to 270° F (132° C)
- > Ultra-smooth surface for maximum patient comfort



PHOTOGRAPHIC CHEEK RETRACTOR

- > Designed to provide a buccal extension to hold the lips and cheeks away from the teeth, resulting in an improved intraoral photography
- > Autoclavable up to 270° F (132° C)
- > Ultra-smooth surface for maximum patient comfort



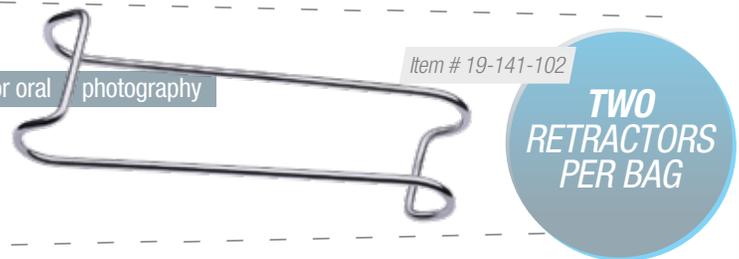
PHOTOGRAPHIC CHEEK & LIP RETRACTOR

- > Designed with one end to hold the cheek away and the other end to hold the entire lip away for an improved intraoral photography
- > Autoclavable up to 270° F (132° C)
- > Ultra-smooth surface for maximum patient comfort



SS CHEEK RETRACTOR

- > Made of stainless steel wire can be used both sides Special for oral photography
- > Length ca.12cm > Autoclavable up to 270 F (132 C)
- > Double ended with large retractor on one side (4.2 cm) & small retractor on other side 3.00cm)



LIP RETRACTOR

- > Great protection for lips during interproximal stripping
- > Cold sterilizable
- > High medical grade plastic
- > Universal size for children and adults



DISPOSABLE TONGUE BLOCK

- > Acts as a bite block and as a tongue block
- > Two holes to fit the saliva ejector "optional"
- > Soft plastic that could be trimmed if needed

10 BLOCKS PER BAG

Available in 2 sizes:
 Small size; Item # 19-113-100
 Large size; Item # 19-113-101



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

NOLA DRY FIELD SYSTEM

- > Full arch access for bonding with maximum patient comfort
- > Provides a completely dry field by effectively eliminating saliva from the floor of the mouth
- > Extremely durable and autoclavable
- > Compatible with low or high volume suction

AVAILABLE IN 2 SIZES:

Small "Red" Item # 19-141-100

Large "White" Item # 19-141-101

SYSTEM INCLUDES:

- 1 cheek retractor, 1 flexible connector,
- 1 tongue guard, 2 suction tubes,
- 1 Y-connector with low-volume adapter.



Adjustable cheek retractor for maximum patient comfort



Adjustable tongue guard to keep the tongue as far away as possible



Generous suction hole on each side to keep mouth as dry as possible



Y-adapter connects the two suction tubes to either the low or high volume suction



EVERY IOS PRODUCT IS THE RESULT OF A COMPLETE AND CONSISTENT PRODUCT PROTOCOL. FROM PRODUCT ENGINEERING TO MANUFACTURING, TESTING, STRICT QUALITY CONTROL, ASSEMBLY AND PACKAGING, TO SALES REPS AND CUSTOMER SERVICE REPRESENTATIVES.



THE ORIGINAL RIO-FOTO MIRRORS

- > High quality thick glass mirrors coated with Rhodium for maximum reflectance and durability.
- > Designed especially for intra-oral photography for both dentists and orthodontists.
- > Provides clear, sharp images when used with either 35 mm or digital cameras.
- > Dual-sided mirrors for extra long life.
- > Heat sterilize or autoclave up to 370 F, 188 C.
- > Most durable mirrors in the market ever.

Available in
8 different shapes for
pediatric & adult
patients

**Rhodium is the
difference!**

Rhodium is a hard silvery
metal of the platinum group
that is durable and has a high
reflectance. It is the most
expensive precious metal

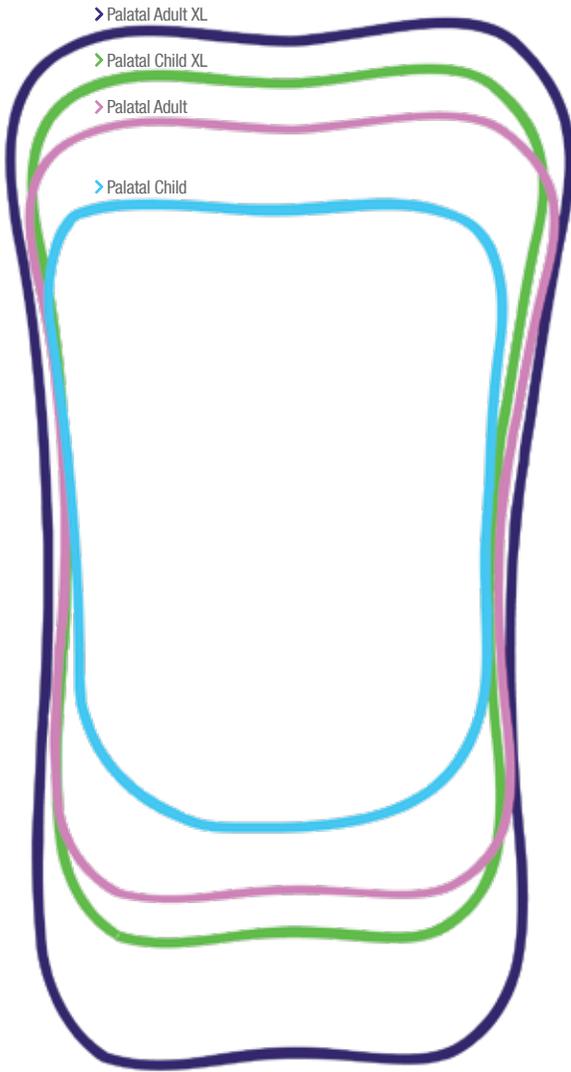


Mirror Size	Item #	Mirror Size	Item #
Palatal Adult Standard	19-190-100	Buccal Narrow	19-190-105
Palatal Child Standard	19-190-101	Buccal Wide	19-190-106
Palatal Adult X-Long	19-190-102	Lingual Narrow	19-190-107
Palatal Child X-Long	19-190-103	Lingual Wide	19-190-108
Kit 1	19-190-104	Kit 2	19-190-109

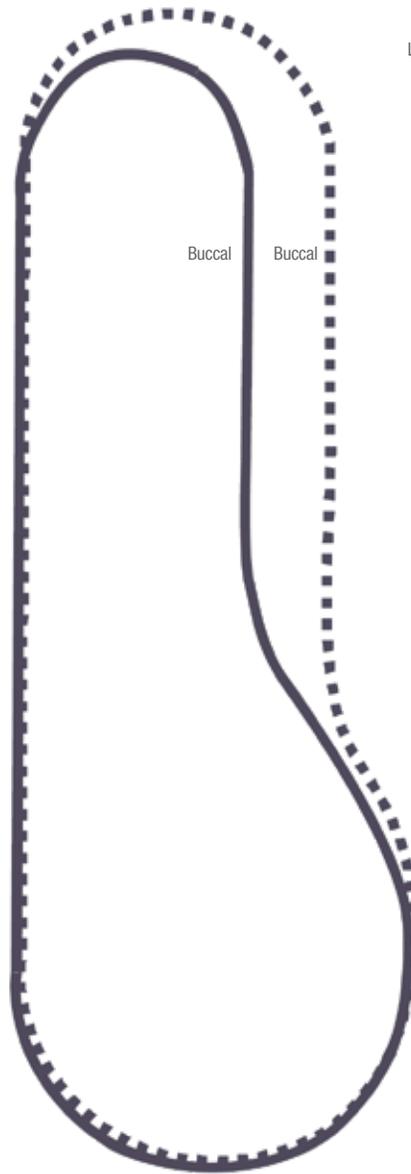
Kit 1: 4 mirrors, Palatal Standard Adult & Child, Buccal Narrow & Lingual Narrow
19-190-100, 19-190-101, 19-190-105, 19-190-107

Kit 2: 4 mirrors, Palatal X-Long Adult & Child, Buccal Wide & Lingual Wide
19-190-102, 19-190-103, 19-190-106, 19-190-108

Actual size as drawn*



- > Palatal Adult XL
- > Palatal Child XL
- > Palatal Adult
- > Palatal Child



*Actual size might vary slightly

ECONO STAINLESS STEEL MIRRORS

- > High quality polished stainless steel for better reflectance and durability
- > Provides clear, sharp images when used with either 35 mm or digital cameras
- > Heat sterilize or autoclave up to 370 F, 188

Available in 4 different shapes:
for pediatric and adult patients

Mirror Size	Item #	Mirror Size	Item #
Palatal Adult Standard	19-190-200	Buccal Regular	19-190-202
Palatal Child Standard	19-190-201	Lingual Regular	19-190-203
Kit "All 4 mirrors"	19-190-204		



- TADS
- Brackets
- Bands
- Wires
- Auxiliaries
- Elastomerics
- Intra-Extra Orals
- Adhesives
- Instruments
- Miscellaneous

EXPANDERS

› IOS offers a wide range of special and standard expansion screws. All pins & threads are manufactured from medically biocompatible stainless steel, while the housing is available in nickel, silver, and stainless steel. Screw threads have a low tolerance of .01mm and are very secure to ensure stability. All screws come with one activation key.

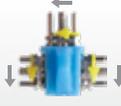


	Item #	Type	 mm		 Max. Exp.	Full Turn	1/4 Turn
 <p>PK/10</p> <p>For transverse expansion in the lower arch and narrow upper arch cases. Also, for distalization in both upper and lower arches.</p>	19-511-100	Micro		10.0 mm	4.0 mm	0.7 mm	0.175 mm
	19-511-101	Micro	6.2 x 2.8	12.0 mm	5.0 mm	0.7 mm	0.175 mm
	19-511-102	Micro		14.5 mm	6.0 mm	0.7 mm	0.175 mm
 <p>PK/10</p> <p>For transverse expansion in the upper and lower arches. Four holes in the expander body for maximum retention in acrylic. Yellow directional arrow.</p>	19-512-100	Medium		10.0 mm	4.0 mm	0.8 mm	0.2 mm
	19-512-101	Medium	7.5 x 3.5	12.0 mm	5.0 mm	0.8 mm	0.2 mm
	19-512-102	Medium		14.5 mm	6.0 mm	0.8 mm	0.2 mm
 <p>PK/10</p> <p>Standard expansion screws for the maxilla. Wide body for highest stability. Four retention holes. Yellow directional arrow.</p>	19-513-100	Standard		10 mm	5.0 mm	0.8 mm	0.2 mm
	19-513-101	Standard Narrow Housing	10 x 3.1	14.3 mm	7.5 mm	0.8 mm	0.2 mm
	19-513-102	Standard Wide Housing		14.3 mm	7.5 mm	0.8 mm	0.2 mm

	Item #	Type	 mm		 Max. Exp.	Full Turn	1/4 Turn
 <p>PK/10 A special screw for symmetrical expanding of narrow maxillae.</p>	19-514-100	Trapezoid	7.5 x 3.5	14.3 mm	5.0 mm	0.8 mm	0.2 mm
							
 <p>PK/10 Stable expansion screw for the mandible. Two retention holes and yellow directional arrow.</p>	19-513-103	Standard	7.0 x 3.1	10.0 mm	5.0 mm	0.8 mm	0.2 mm
	19-513-104	Standard		14.3 mm	7.5 mm	0.8 mm	0.2 mm
 <p>PK/10 Medium sectional screw for space closing and single tooth movement. Sturdy U-bow serves as a double-guiding pin. Yellow directional arrow.</p>	19-515-100	Sectional		11.0 mm	3.0 mm	0.4 mm	0.1 mm
	19-515-101	Sectional	7.5 x 3.5	13.0 mm	5.0 mm	0.4 mm	0.1 mm
	19-515-102	Sectional		16.5 mm	9.5 mm	0.4 mm	0.1 mm
 <p>PK/10 U-bow is gingivally bent for single tooth movement. Yellow directional arrow.</p>	19-515-103	Sectional		11.5 mm	3.0 mm	0.4 mm	0.1 mm
	19-515-104	Sectional	7.5 x 3.5	13.0 mm	5.0 mm	0.4 mm	0.1 mm
	19-515-105	Sectional		16.5 mm	9.5 mm	0.4 mm	0.1 mm
 <p>PK/10 U-bow is occlusally bent for single tooth movement. Yellow directional arrow.</p>	19-515-106	Sectional		11.5 mm	3.0 mm	0.4 mm	0.1 mm
	19-515-107	Sectional	7.5 x 3.5	13.5 mm	5.0 mm	0.4 mm	0.1 mm
	19-515-108	Sectional		17.5 mm	9.5 mm	0.4 mm	0.1 mm
 <p>PK/10 Our best selling screw! Completely made of stainless steel with wider range of expansion. Engraved grooves in the housing for extra retention.</p>	19-511-103	Micro	7 x 2.8	11.0 mm	6.5 mm	0.8 mm	0.2 mm
	19-511-104	Micro		13.0 mm	8.5 mm	0.8 mm	0.2 mm
 <p>PK/10 Wide body with an even wider range of expansion. Engraved grooves in the housing for extra retention.</p>	19-511-105	Medium	9.5 x 3.2	13.0 mm	9.0 mm	0.8 mm	0.2 mm
	19-511-106	Medium		15.0 mm	11.0 mm	0.8 mm	0.2 mm

TADS
Brackets
Bands
Wires
Auxiliaries
Elastomers
Intra-Extra Orals
Adhesives
Instruments
Miscellaneous

SPECIAL EXPANDERS

	Item #	Type	 mm		 Max. Exp.	Full Turn	1/4 Turn
 <p>PK/10 One piece fan-shaped expansion screw for asymmetric expansion of the maxilla.</p>	19-521-100	Fan Type	14.3 x 17.5		8.0 mm	0.8 mm	0.2 mm
 <p>PK/10 One piece fan-shaped expansion screw for asymmetric expansion of the maxilla.</p>	19-521-101	Fan Type	12		6.0 mm	0.8 mm	0.2 mm
 <p>PK/10 Mandibular bow screw for transverse expansion of the mandibular anterior segment. Made of stainless steel.</p>	19-521-103	Bow Type	20		8.0 mm	0.8 mm	0.2 mm
 <p>PK/10 Simons expansion screw for horizontally separated activator. Yellow directional arrow.</p>	19-521-104	Medium	14.3		8.0 mm	0.8 mm	0.2 mm
 <p>PK/1 Multi-sector screw for combined transverse and anterior-posterior expansion. Three individual adjustable screws.</p>	19-521-105	Bertoni	17 x 15.5		Frontal 5 mm Back 2 x 3.5 mm	0.35 mm	0.087 mm
 <p>PK/1 Same as Item # 19-521-105, but the transverse screws open in the same direction.</p>	19-521-106	Bertoni	17 x 15.5		Frontal 5 mm Back 2 x 3.5 mm	0.35 mm	0.087 mm

SAFETY SWIVEL KEY

› Eliminates the fear of swallowing the key accidentally while activating the screw. No fingers in mouth.

Pack of 10 keys
Item # 19-599-100



REPLACEMENT KEY

Pack of 10 keys
Item # 19-599-101



SKELETAL EXPANDERS

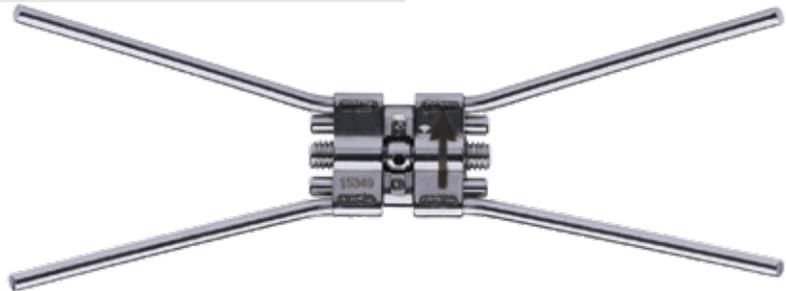


Beveled hole entrance for easier key insertion

ANATOMICAL RAPID PALATAL EXPANDER

› Extremely special screw for rapid palatal expansion. The anatomically designed shape minimizes space requirements in the palate. Pre-formed, laser welded retention arms, stable guiding pins and generously dimensioned threaded spindle for the greatest possible safety and force transmission. Screw is designed with anti-rotation mechanism. Comes with one regular key.

Item #	Size	Full Turn	Maximum Expansion
19-532-100	5 mm	0.9 mm	4 mm
19-532-101	9 mm	0.9 mm	8 mm
19-532-102	11 mm	0.9 mm	10 mm
19-532-103	13 mm	0.9 mm	12 mm
19-532-104	18 mm	0.9 mm	17 mm



STANDARD RAPID PALATAL EXPANDER

› Manufactured from biomedical grade SS with 0.60" diameter sturdy straight legs for traditional palatal expanders. Longer legs "85 mm" when compared to other expanders "75 mm". Screw is designed with anti-rotational mechanism. Comes with one safety swivel key as a kit.



For surgical expanders see page 10

Item #	Size	Full Turn	Maximum Expansion
19-531-100	7 mm	0.8 mm	6 mm
19-531-101	9 mm	0.8 mm	8 mm
19-531-102	11 mm	0.8 mm	10 mm
19-531-103	13 mm	0.8 mm	12 mm



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra Orals

Adhesives

Instruments

Miscellaneous

LAB ACCESSORIES

PREFORMED ADAMS CLASPS

- > Great way to save time
- > Clasp wire diameter is .028", stress relieved SS
- > Kit contains 5 clasps of each size



Available in 8 different sizes

Size in mm	Item #	Size in mm	Item #
5 mm	19-621-100	9 mm	19-621-104
6 mm	19-621-101	10 mm	19-621-105
7 mm	19-621-102	11 mm	19-621-106
8 mm	19-621-103	12 mm	19-621-107
Kit	19-621-999	N/A	N/A

BALL CLASPS

- > One piece construction
- > Stress-relieved stainless steel

Available in 2 packaging:

- 100 clasps per pack
- 1000 clasps per econo pack

Diameter	Item # 1000 Clasps	Item # 100 Clasps
0.028"	19-622-100	19-622-110
0.032"	19-622-101	19-622-111
0.036"	19-622-102	19-622-112



5 TUBES
PER
PACK

SS STRAIGHT TUBES

> Rigid stainless steel tubes to be used in constructions of certain appliances such as E-arches, Inman aligners® and class II correction devices

- > 13" / 330 mm length



Use a tube to fabricate a spring aligner

Available in 3 different sizes

Dimension	Item #
0.8 mm inside Diameter/ 0.9 mm outside Diameter	19-625-109
0.9 mm inside Diameter/ 1.0 mm outside Diameter	19-625-110
1.2 mm inside Diameter/ 1.5 mm outside Diameter	19-625-111

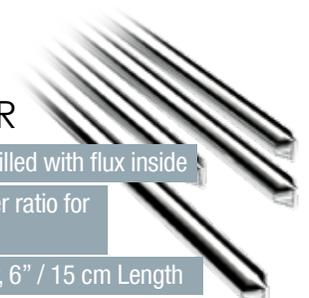


Use a tube to fabricate an expansion arch.

12 RODS
PER
PACK

EZ SOLDER

- > Unique solder rods filled with flux inside
- > Perfect flux-to-solder ratio for optimum soldering
- > 1 mm Rod Diameter, 6" / 15 cm Length



Item # 19-599-103

ORTHO TORCH

- > Simple design, self-starting with fully adjustable flame setting
- > Precise and controlled high temperature 1300° C
- > Up to 90 minutes of usage with a single full charge

Item # 19-599-104



SS LAB WIRES "SPOOL"

- > Stress relieved bright round wire
- > Available in two tempers: Hard, and Spring Hard
- > Each spool contains 500g of wire



Wire Size	Hard	Spring Hard
0.4 mm / .016"	19-611-100	19-612-100
0.5 mm / .020"	19-611-101	19-612-101
0.6 mm / .024"	19-611-102	19-612-102
0.7 mm / .028"	19-611-103	19-612-103
0.8 mm / .032"	19-611-104	19-612-104
0.9 mm / .036"	19-611-105	19-612-105
1.0 mm / .040"	19-611-106	19-612-106
1.1 mm / .044"	19-611-107	19-612-107
1.2 mm / .048"	19-611-108	19-612-108

WAXES

REGULAR WAX

- > Soft wax provides quick relief from sharp ligature wires & brackets
- > 50 assorted color packs per box
- > 5 strips per pack

Item # 19-211-101

50 PACKS
PER BOX



ORTHOSIL

- > Medical grade silicone for temporary relief from braces and appliance irritation
- > Lasts longer and easier to use than regular wax
- > Will not melt or dry out!

50 PACKS PER BOX
Item # 19-211-100

REGULAR WAX IN *scented cases*

5 strips
per pack

Same as regular wax but packed in a scented box for extra fun!

50 PACKS PER BOX

<p>Grape Item # 19-213-100</p>	<p>Cherry Item # 19-213-107</p>	<p>Blueberry Item # 19-213-103</p>	<p>Bubble Gum Item # 19-213-104</p>
<p>Chocolate Item # 19-213-102</p>	<p>Cinnamon Item # 19-213-105</p>	<p>Coconut Item # 19-213-106</p>	<p>Mint Item # 19-213-101</p>
<p>Apple Item # 19-213-109</p>	<p>Cotton Candy Item # 19-213-108</p>		

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

PATIENT ACCESSORIES

RETAINER CASES

20 CASES
PER BOX

- > One piece construction for durable long life hinge
- > Improved ventilation with four holes

STACKABLE RETAINERS



32 IO S RETAINER BOXES = 10 REGULAR BOXES

store more
and save
space up to
83%



Color	Item #	Color "Sparkle"	Item #
BLUE	19-311-100	SPARKLE BLUE	19-311-108
RED	19-311-101	SPARKLE RED	19-311-106
PURPLE	19-311-102	SPARKLE PURPLE	19-311-105
YELLOW	19-311-111	SPARKLE YELLOW	19-311-123
NEON GREEN	19-311-112	SPARKLE GREEN	19-311-118
ORANGE	19-311-113	SPARKLE ORANGE	19-311-124
GOLD	19-311-119	SPARKLE GOLD	19-311-125
BLACK	19-311-120	SPARKLE BLACK	19-311-107
MAGENTA	19-311-121	SPARKLE MAGENTA	19-311-126
PINK	19-311-122	SPARKLE PINK	19-311-127

ALL CUSTOMIZED*
*engrave your Name and logo
on the boxes.*

* Minimum Quantities for an order is 5000 retainer cases.
* Additional fee may be applied.

Patent Pending

ORTHO HYGIENIC KIT

In addition to containing high-quality items that ortho patients need, our compact ortho kit is an excellent way to promote your practice.

Premium Ortho Hygiene kit contents:

- 4 Tuft toothbrush
- Lighted Angled Mirror
- Floss Threader
- Waxed Dental Floss
- Dental Wax
- Duo Dent
- Interdental Brush

Item #19-214-101





10 patient bags per PK

Item #19-214-103

CHEWIES ALIGNER TRAY SEATERS

Made of a soft Styrene Copolymer material

- Use with Clear Aligner Trays to speed up treatment.
- Helps with the seating of Clear Aligner Trays
- White unscented.
- 2 seaters in an individual tamper-proof patient bag.



PATIENT HYGIENIC BROCHURE

Shows your patients how to:

- Keep their teeth clean
- What foods to stay away from
- React if a problem occurs

Very colorful and attractive to kids!

PK/10 item #19-214-102



TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra Orals

Adhesives

Instruments

Miscellaneous

ORGANIZERS



WAX ORGANIZER

Holds up to 100 wax packs with cover.
Item # 19-299-100



COTTON ROLLS DISPENSER

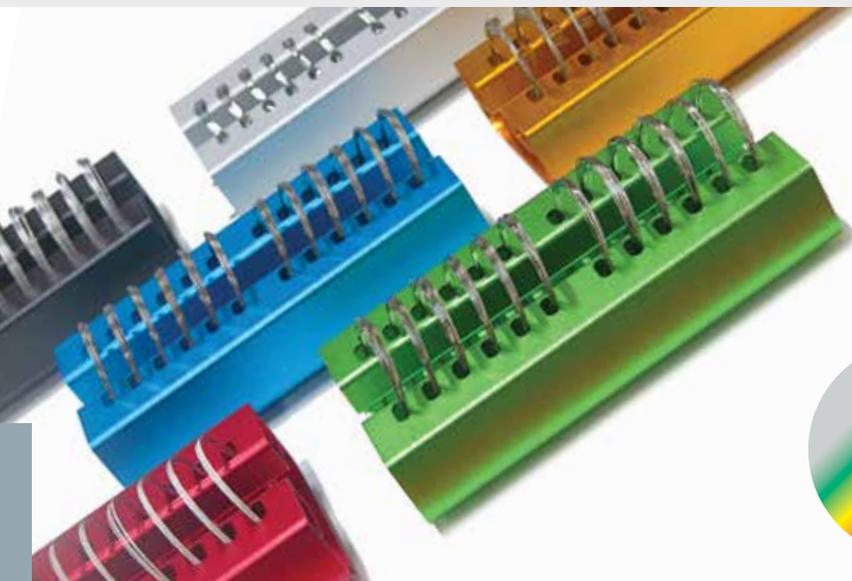
Accommodates up to 50 cotton rolls.
Item # 19-299-101



ELASTIC & CHAIN ORGANIZER

Accommodates up to 12 different colors & 12 power chains
Up to 25 sticks per tube. Item # 19-299-102

WIRE ORGANIZER



Hold 6 upper and 6 lower wire sizes.
Up to 100 wires per size.

Item # 19-299-104

Made from Aluminium



■ Metallic Silver 19-299-104

■ Metallic Red 19-299-116

■ Metallic Gold 19-299-117

■ Metallic Green 19-299-118

■ Metallic Black 19-299-119

■ Metallic Blue 19-299-120



Wire Organizer

Holds 5 upper and 5 lower wire sizes.
Up to 50 wires per size with cover.
Item # 19-299-105

PLASTIC PLIER ORGANIZER

Special place for double ended instruments Holds up to 24 pliers.
Item # 19-299-106



Band Trays

Four trays assembled together 28 wells for different band size in each tray. Up to 20 bands per well.
Item # 19-299-107



Plastic Chain Organizer

Accommodates 18 spools with cover Item # 19-299-103

PLIER HOLDER



INTRAORAL ELASTIC BOX HOLDER

Holds up to 5 packs of Intraoral elastic box.
Item # 19-299-114



- Holds up to 20 pliers
- Available in 4 different colors:
Clear, Item # 19-299-108
Yellow, Item # 19-299-109
Red, Item # 19-299-110
Blue, Item # 19-299-113

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

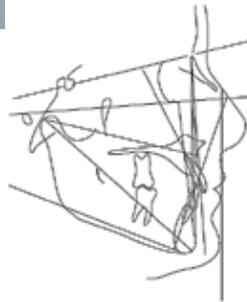
Miscellaneous

DIAGNOSTIC TOOLS

CEPHALOMETRIC TRACING PAPER

- > 8" x 10" (20.3 x 25.4 cm) Acetate sheet tablet
- > Matt finish on one side and high gloss finish on the other side
- > Highly transparent for clear viewing
- > 0.003" tear resistant thickness

Item # 19-411-100



ALUMINUM 4" DIGITAL CALIPER

- > Special designed tiny tip for precise measurements
- > Measure outside and inside diameters in inches or millimeters
- > Fitted in a case with one extra battery and a screw drive
- > Aluminum shell for professional look, **Larger LCD display**
- > Item # 19-421-101



PRESENTATION TYPODONTS

IOS typodonts are manufactured from two separate molds, the teeth and the base, to produce superior details and quality. The flexible hinge allows base exchanges for demonstration purposes. Class I Occlusion.

- > Perfect way to present different brackets options to patients
- > Educate patients about orthodontics components during orthodontic treatment
- > Show patients how to brush and floss with braces on teeth
- > All models are class I occlusion



Bracket Type	Item	Description
Max	19-441-100	.016 NiTi wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Razor	19-441-101	.016 NiTi wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Majestic	19-441-102	.016 NiTi wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Pactive	19-441-103	.016x.022 NiTi wires Upper arch, .016 NiTi wires Lower arch, Classic Tubes, Mini Uni Tubes
Phantom LP	19-441-104	.016 NiTi D.G Aesthetic wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Phantom Luxe	19-441-105	.016 NiTi D.G Aesthetic wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Phantom Plus	19-441-106	.016 NiTi D.G Aesthetic wires, Clear Ties, Classic Tubes, Mini Uni Tubes
Royal	19-441-107	.016 NiTi Royal wires, Clear Ties, Royal Tubes
Razor & Phantom Luxe	19-441-108	.016 NiTi D.G Aesthetic wires Upper, .016 NiTi wires Lower arch, Clear Ties, Classic Tubes, Mini Uni Tubes
Plain	19-441-109	No Brackets or wires

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

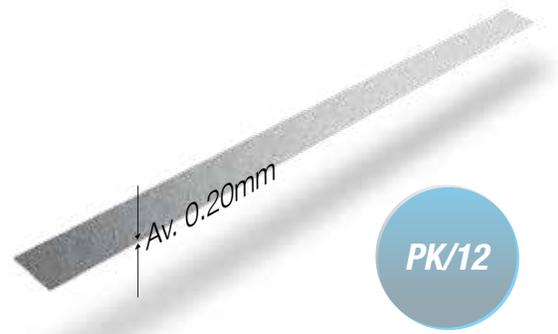
Instruments

Miscellaneous

INTERPROXIMAL STRIPPING

ABRASIVE STRIPS

> Manufactured from non-brittle stainless steel strips coated with genuine corundum to ensure grit stability, autoclavable, can be used wet or dry and 6" long.



Width	Grit	Single	Dual
4 mm	Fine	19-711-100	19-721-100
	Medium	19-711-101	19-721-101
6 mm	Fine	19-712-100	19-722-100
	Medium	19-712-101	19-722-101
8 mm	Fine	19-713-100	19-723-100
	Medium	19-713-101	19-723-101



ABRASIVE HOLDER

> Small size for better control during stripping. Accepts all strips and can be replaced in seconds. Made from sterilizable Stainless Steel.

Item # 19-597-579

DIAMOND DISCS

- > Designed to be used with low speed handpieces for separating and contouring interproximal areas.
- > Ultraflexible discs for safe and easy use.
- > Available in two diameters:

	7/8" diameter	3/4" diameter
Double Side	19-734-100	19-724-100
Single Side <i>Safe in</i>	19-734-101	19-724-101
Single Side <i>Safe out</i>	19-734-102	19-724-102



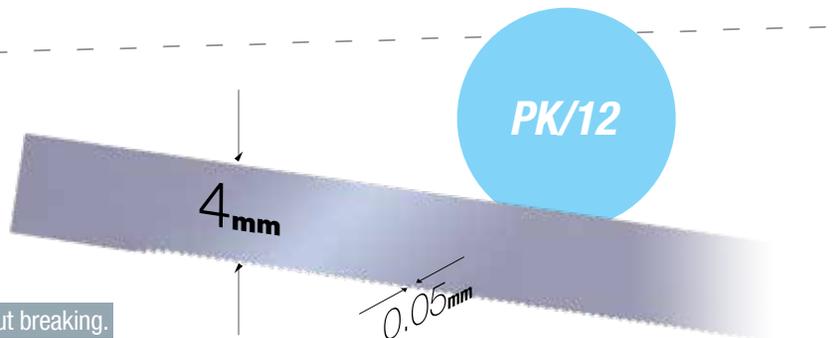
PROTECTOR DISC GUARD

- > Protect your patient's lips and your hand
- > Fits most slow-speed handpieces
- > For safe and effective stripping

Available in two diameters:
 3/4" diameter Item # 19-731-101
 7/8" diameter Item # 19-731-102

MICRO SAW

- > Made of flexible medical-grade Stainless Steel.
- > Only 0.05 mm thickness for minimal contact opening.
- > 4 mm width.
- > Flexible strip to bend around tight teeth contacts without breaking.
- > Sterilize & use again for the same patient.



Item # 19-740-100

new

LIFE SAVER BUR

PK/5

Item #19-732-205

Are you tired of adhesive flashes around brackets' wings?

You cannot make the perfect ligature tie?

You have no time to place a new bracket in the busy afternoon?

1



2



3



> With a special design to clean any excessive adhesive under the wings without damaging the brackets.*

> May be used with SS and ceramic brackets.

> Always use light force to remove the extra adhesive.

* when used properly with light force.

TADS

Brackets

Bands

Wires

Auxiliaries

Elastomerics

Intra-Extra
Orals

Adhesives

Instruments

Miscellaneous

INTERPROXIMAL STRIPPING BUR

> Use this medium grit diamond bur to strip contact points in Invisalign® cases or simply to eliminate a black triangle.

Available in two sizes:

- Regular Mosquito Item # 19-732-001
- Baby Mosquito Item # 19-732-002

PK/5



FINISHING BURS

> A beautiful finished orthodontic case is not complete without properly removing the adhesive and polishing the enamel surface.

IOS provides **2** types of finishing burs:

> WHITE STONE

An efficient way to remove adhesive without cutting enamel.

Available in two shapes:

- Regular conical shape Item # 19-732-100
- Fine conical shape Item # 19-732-101

PK/12



> CARBIDE BURS

Achieve a smooth finish without damaging enamel.

Available in five forms:

- Flame Finishing Item # 19-732-200
- Straight finishing w/round end Item # 19-732-204
- Football Carbide Item # 19-732-201
- Regular Tapered - 12 Flute Item # 19-732-202
- Fine Tapered Item # 30 Flute # 19-732-203

PK/5



BEFORE

AFTER

CONVERSION TABLES

Inch	mm								
0.001	0.03	0.017	0.43	0.033	0.84	0.049	1.24	0.065	1.65
0.002	0.05	0.018	0.46	0.034	0.86	0.05	1.27	0.066	1.68
0.003	0.08	0.019	0.48	0.035	0.89	0.051	1.30	0.067	1.70
0.004	0.10	0.020	0.50	0.036	0.91	0.052	1.32	0.068	1.73
0.005	0.13	0.021	0.53	0.037	0.94	0.053	1.35	0.069	1.75
0.006	0.15	0.022	0.56	0.038	0.96	0.054	1.37	0.07	1.78
0.007	0.18	0.023	0.58	0.039	0.99	0.055	1.40	0.071	1.80
0.008	0.20	0.024	0.61	0.04	1.02	0.056	1.42	0.072	1.83
0.009	0.23	0.025	0.63	0.041	1.04	0.057	1.45	0.073	1.85
0.01	0.25	0.026	0.66	0.042	1.07	0.058	1.47	0.074	1.88
0.011	0.28	0.027	0.69	0.043	1.09	0.059	1.50	0.075	1.90
0.012	0.30	0.028	0.71	0.044	1.12	0.06	1.52	0.076	1.93
0.013	0.34	0.029	0.74	0.045	1.14	0.061	1.55	0.077	1.96
0.014	0.36	0.030	0.76	0.046	1.17	0.062	1.57	0.078	1.98
0.015	0.38	0.031	0.79	0.047	1.19	0.063	1.60	0.079	2.01
0.016	0.40	0.032	0.81	0.048	1.22	0.064	1.63	0.08	2.03

Inch	mm	
1/64"	= 0.0156	0.4
1/32"	= 0.0312	0.79
1/16"	= 0.0625	1.59
1/8"	= 0.125	3.18
3/16"	= 0.188	4.78
1/4"	= 0.25	6.35
5/16"	= 0.313	7.95
3/8"	= 0.375	9.52
1/2"	= 0.5	12.7
5/8"	= 0.625	15.88
3/4"	= 0.75	19.05
7/8"	= 0.875	22.22
1"	= 1	25.4

1 mg	= 0.0154 grains	
1 g	= 1000 mg	= 0.0353 oz
1 Kg	= 1000 g	= 2.2046 lb
1 ounce	= 28.35 g	
1 pound	= 16 ounce	= 0.4536 Kg

1 inch	= 25.40 mm
1 mm	= 0.0394 inch
1 N/mmq	= 145.14 P.s.i
1 P.s.i	= 0.00689 N/mmq

FDI SYSTEM

R	18	17	16	15	14	13	12	11	21	22	23	24	25	26	27	28	L
	48	47	46	45	44	43	42	41	31	32	33	34	35	36	37	38	

PACKAGING

IOS utilizes standardized packaging. This helps our customers clearly identify the product, its manufacturer, and proper handling and storage of the product. Symbols will appear on packaging.

	Single Use Only		Manufacturer - before company name/address		Storage Temperature
	Caution		EC representative		Do Not Store in Direct Sunlight
	Use By Date		Lot Number - on separate sticker		Product contains latex
	See Instructions for Use		Shown on products		Product is latex-free
	Non Sterile		Shown on products if in the mouth more than 30 days		Nickel / Chromium Warning WARNING: This product contains nickel and/or chromium. Patients with an identified allergy to these metals SHOULD NOT use this product. In undiagnosed patients, if irritation occurs, discontinue use IMMEDIATELY and contact a physician.
			Always appears before PART # reference		

index

A

Abrasive Holder	142
Abrasive Strips	142
Activator Tube	90
Adams Clasps	134
Adapters, Nola	126
Adhesives	
- Chemical Self Cure	98
- Light-Cured	98
- Band Adhesive	99
Applicators	101

B

Ball Clasps	134
Band	
- Molar Bands	39
- Band Attachments	40
Bondable Tubes	
- Classic, Bondable tubes	42
- Mini Uni, Bondable tubes	42
- Royal, Gold Bondable tubes	43
Band Pusher	116
Band Trays	139
Bertoni Expander	132
Bite Sticks	116
Bite Wings	74
Bonding Brushes	101
Brackets	
Majestic, SS Bracket	29
Razor, SS Bracket	27
Active, SS Self ligating Bracket	25
Phantom Luxe, Ceramic Bracket	33
Phantom Plus, Ceramic Bracket	35
Royal, Gold Bracket	30
Brass Spacer	71
Burs	
- Finishing	144
- Interproximal Stripping	144
- Life Saver	143
Bondable Buttons	75
Bondable Eyelets	75
Bondable Buttons, Clear	75

C

Caliper, Digital	140
Ceph. Tracing Paper	140
Ceramic Primer	100
Cheek Retractors	
- Extraoral	124
- Intraoral	125
- Nola System	126

C

Chin Cap	
- Set	91
- Accessories	91
Cinch Back Plier	111
Coils	
- Open Coil	68
- Closed Coil	69
- Closed Coil with Eyelets	69
Cotton Plier	118
Crimpable Hook Plier	112

D

De-impacting Spring	70
Dispensing Tip	101
Diamond Disc	142
Double-End Instruments	119
DuraBond	99

E

Elastics	
- Intraoral Latex	83
- Intraoral Latex-Free	83
- Intraoral Neon	83
- Extraoral	85
Elastic Thread	81
Elastic Ligature	79
Elastic Placer	85
Etchant	
- Regular Etch	100
- Ceramic Etch	100
Expansion Keys	
- Regular	133
- Swivel Head	133
Expansion Screws	
- Bertoni	132
- Bow Type	132
- Fan Type	132
- Micro	130
- Medium	130
- Sectional	131
- Standard	130
- Skeletal Expanders	133
- Trapezoid	131

F

Face Bows	88
Face Bows Colored	88
Face Masks	94
Face Masks, Replacements	94

G

Gauges	
- Brackets 18 or 22	118
- Bone Gauge	118
Glass Ionomer Kit	99
Gold Eruption Chain	74

H

Head Caps	90
Head Gear Plier	112
Head Gear Tubes	90
Hollow Chop Plier	110
Hooks	
- Curved Hooks	66
- Straight Hooks	66
Howe Plier	66
Hygen Kit	115
Hygen Brochure	136

I

Infinity - Expander	13
Infinity - TAD	
- Infinity TAD	14
- Infinity X TAD	16
- Infinity L TAD	15
- Templant System	17
- Infinity accessories	10
Interproximal Stripping	142

J

Jarabak Plier	109
---------------	-----

K

Koby Ties	67
-----------	----

L

Ligature Elastic Ties	
- Ligature Ties	79
Ligature Wires	
- Koby Ties	67
- Long Ties	67
- Short Ties	67
- Spooled wires	67
Light Wire Plier	109
Liquid Dam	100
Lingual Cleats	40

Lingual Retainers	
- 2 & 2	73
- 3 to 3	73
- 3 & 3	73
Lip Bumper	91
Lip Protector	81
Lugs	40

M

Mathieus	
- Curved Lingual	120
- Fine	120
- Grooved	120
- Hooked	120
- Narrow	120
- Regular	120
- TC Inserted	120
MicroBrush	101
Mixing Pads	101
Mixing Spatulas	118
Mirrors, Photo	
- Rhodium Glass Coated	128
- Stainless Steel	129
Module, Safety Release	89
Micro Saw	142

N

Neck Pads	89
Nola System	126

O

Omega Loop Forming Plier	111
Organizers	
- Band Trays	139
- Elastics	139
- Pliers	139
- Wax	138
- Wires	138
- Intraoral Elastic Box	139

P

Palatal Expanders	133
Photo Cheek Retractors	124
Photographic Mirrors	128
Pliers	
- Aligner Pliers	114
- Banding Pliers	113
- Bending Pliers	108
- Cone Plier	120

- Cotton Plier	118
- Debonding Pliers	113
- Distal End Cutters	105
- Lab Pliers	115
- Straight Cutters	106
- Special Pliers	111
- Utility Pliers	115
Power Chain	80
Primer	
- Chemical	98
- Light-Cured	98
- Porcelain	100
- DuraBond	99
Protector Discs	142

R

Rapid Palatal Expanders	133
Release Module	89
Retainer Cases	136
Retraction Archwires	50
Rotation Wedges	85
Ruler, SS	51
Ruler, Disposable	51

S

Safety Key	137
Separators	
- Elastic Spacers	84
- SS Separating Spring	70
- NiTi Separating Spring	70
- Brass Spacers	71
Separating Plier	116
Solder	134
Spatula	118
Springs	
- De-Impacting Spring	70
- Rotating Spring	70
- Uprighting Spring	71
- Warren Spring	70
Stainer Wedges	71
Swivel Tube	133
Stopper	66
Surgical Expander	13

T

Tongue Block	125
Tongue Spikes	74
Torch	134
Tracing Paper	140
Tubes, Straight SS	134
Turret, Arch Forming	52

Tweezers	
- Buccal Tubes	118
- Narrow	118
- Regular	118
Typodonts	141

U

Ultra-Flex, Lingual Retainer Wire	72
-----------------------------------	----

W

Warren Spring	70
Wax	
- Orthosil	135
- Regular	135
- Scented	135
Wires	
- Stainless Steel wires	48
- Gold Tone SS wires	48
- 4-Keyhole SS wires	50
- 2-Keyhole SS wires	50
- T-Loop SS wires	50
- Brass Posted SS wires	50
- Multi-Strand SS wires	51
- Straight SS wires	52
- Twisted SS straight wires	52
- B-Ti - TMA - wires	53
- Exceloy, Elgiloy wires	53
- NiTi Wires	54
- NiTi Heat Activated wires	55
- Reverse Curve NiTi wires	58
- R-NiTi Heat Activated wires	58
- Coper NiTi wires	56
- Torquing NiTi wires	59
- Zefiro - Bidimensional - wires	60
- DG -Coated - wires	61
- Royal wires	62
Wire Marker	48

X

X-Tubes	71
---------	----

Warranty and Ordering Terms and Conditions of Sale

Special Warranty Information for Hand Instruments

IOS warrants that this instrument will be free from defects in material, manufacture or separation of brazed cutting edges for a period of 1 year from the date of purchase. IOS warrants that this instrument will be resistant to corrosion for 5 years from the date of purchase. Failure to follow recommended use, maintenance and sterilization procedures will void all warranty claims. Recommended maintenance include cutter tip/blade re-sharpening and reconditioning (cleaning, polishing, adjusting screw as necessary) every six months. IOS's sole obligation and buyer's sole remedy in the event of a claimed defect shall be limited to, at IOS's option, repair, replacement of merchandise, or refund of the purchase price.

Materials, manufacture, and corrosion resistance are the only items covered by this warranty. Misuse or abuse will void warranty. Buyer will be contacted regarding repair charges for out of warranty instruments.

Waiver of Implied Warranties

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR USE ARE DISCLAIMED.

Return Policy

Customer Service must be called within 24 hours of delivery to obtain an RMA# from our Quality Control Manager before

a credit/replacement can be issued. You will need to provide the invoice number on which you were charged for the product. Items are to be returned in its original packaging. Return of non-defective items are subject to a 15% restocking charge. A finance charge will be assessed on all invoices over 30 days old at 1.5% per month.

Limitation of Liability

Except where prohibited by law, IOS will not be liable for any loss or damages arising from any products, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

Product Changes

Products are continually undergoing refinement in design and manufacture. IOS reserves the right to improve, modify or discontinue products at any time.

Termination for Default

IOS may terminate an order, in whole or in part, if buyer is in breach of a material obligation and does not cure such breach to the reasonable satisfaction of IOS within ten (10) days of IOS's written notice of intent to terminate the order for buyer's default.

Waiver

Any failure or delay by either party in exercising any right or remedy provided by or relating to the order or these Terms

and Conditions does not constitute a waiver and shall not prohibit a party from exercising such right or remedy at a later time or from exercising any other right or remedy available.

Entire Agreement

These terms and conditions of sale constitute the entire agreement between the parties with respect to the product sale except for the price set by the applicable IOS quotations, IOS price sheet, or separate pricing agreement; and by any additional IOS terms and conditions agreed to by the buyer electronically or in writing.

IOS

12811 Capricorn St.
Stafford, TX 77477 USA
Customer Service Line:
Tel. +1 (832) 342-9487
Fax: +1 (281) 340-4764

A B R A N D B U I L T
O N T R U S T





12811 Capricorn St. Stafford, TX 77477 USA
Phone: +1 832 342 9487 **Fax:** +1 281 340 4764

iosortho.com