



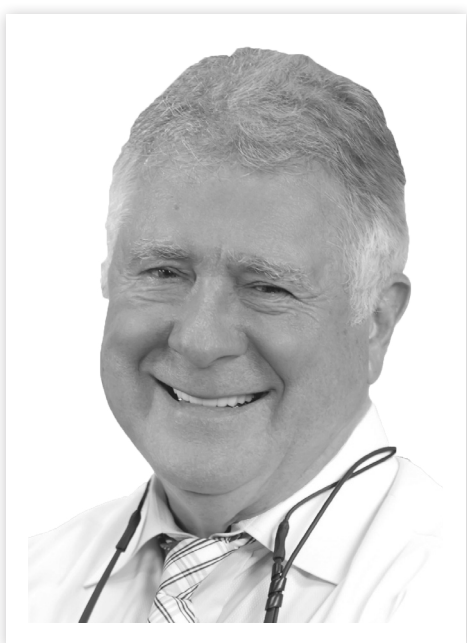
**SELF-LIGATING  
SYSTEM**



**Join the Movement.**



# SPEAKERS BUREAU



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## **Thomas Pitts D.D.S., M.Sc.D.**

Associate Clinical Orthodontic Professor, University of  
Pacific, Dugoni School of Dentistry

**B.A.** University of Nevada, Reno 1958-1961

**D.D.S.** University of Pacific, Valedictorian 1965

**M.S.D. & Certificate of Orthodontics**  
University of Washington 1970

**Practicing Orthodontist: 1970-Present**

Private orthodontic practice, Harker Heights, Texas

### **TEACHING & PUBLICATIONS**

Dr. Pitts has been published in multiple journals and clinical publications. He has been actively teaching the orthodontic community in a variety of settings both nationally and internationally since 1986.

### **MEMBERSHIP & INVOLVEMENT**

American Association of Orthodontists, Pacific Coast Society of Orthodontists, American Dental Association, Northern Nevada Dental Society, Past-President of Northern Nevada Dental Society, Past Examiner for the Nevada State Dental Board of Examiners, Originator and director of International Pitts Progressive Study Group 1978 – present

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# SPEAKERS BUREAU



## **Duncan Brown B.Sc., D.D.S., D. ORTHO**

**B.Sc.** University of Toronto, 1970

**D.D.S.** University of Toronto, 1975

**D. Ortho.** University of Toronto, 1978

**Practicing Orthodontist: 1978-Present**

### **Teaching & Publications**

Dr. Brown has taught passive self-ligation in North America, Mexico and Asia. He has served as a guest lecturer and co-author for series on passive self-ligation.

### **Membership & Involvement**

Canadian Dental Association, Alberta Dental Association, Canadian Association of Orthodontists, American Association of Orthodontists, Alberta Society of Orthodontists, Former Member Ontario Dental Association, Former Member Ontario Society of Orthodontists



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# SPEAKERS BUREAU



## **Tomas Castellanos Arteaga D.D.S., M.SC.D.**

**Dentistry** Pontificia Universidad Javeriana (Bogota)

**Orthodontics** Nueva Granada Military University - CIEO

**Practicing Orthodontist**

**Teaching & Publications**

International speaker and certified educator. UNICOC and UAN.

### **Membership & Involvement**

Progressive & Masters Orthodontist Group, Tomas Castellanos Group  
Specialized in DMF Treatments. SCO (Colombian Society of Orthodontists),  
and WFO (World Federation of Orthodontists)



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# SPEAKERS BUREAU



## **Daniela Storino D.D.S., M.SC., D.SC.**

**D.D.S.** Faculdade de Odontologia da Universidade de Campinas - UNICAMP (1992-1995)

### **Pediatric Residency**

Faculdade de Odontologia da Universidade Estadual de Londrina - UEL (1996-1997)

### **Orthodontic Residency**

Orthodontics and Facial Orthopedics Specialist - Faculdade de Odontologia da Universidade de São Paulo - FOU SP /FUNDECTO (2000-2002)

### **Practicing Orthodontist: 2003 - present**

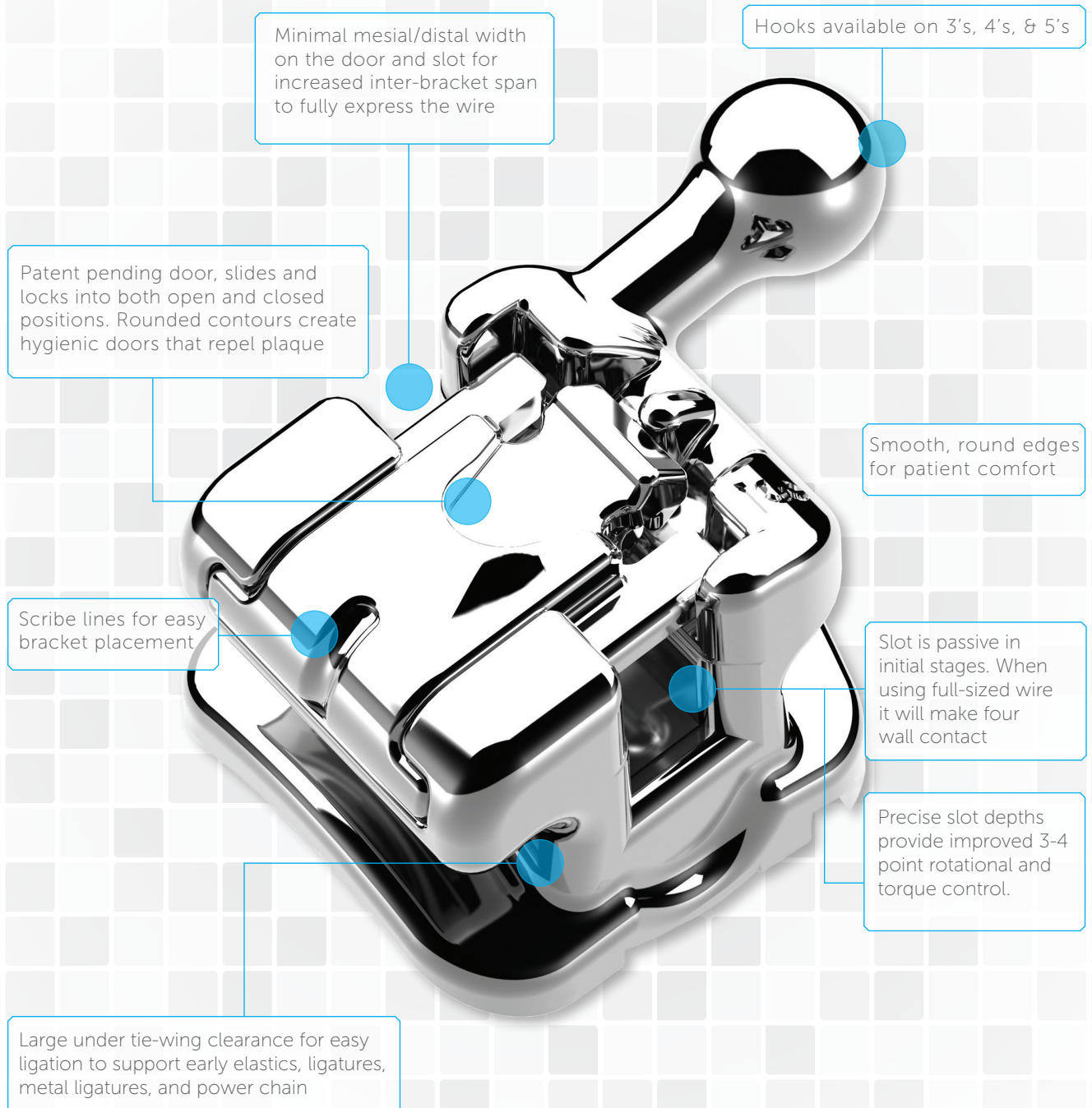
(6 1/2 years of PSL)



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# H4™ FEATURES & BENEFITS

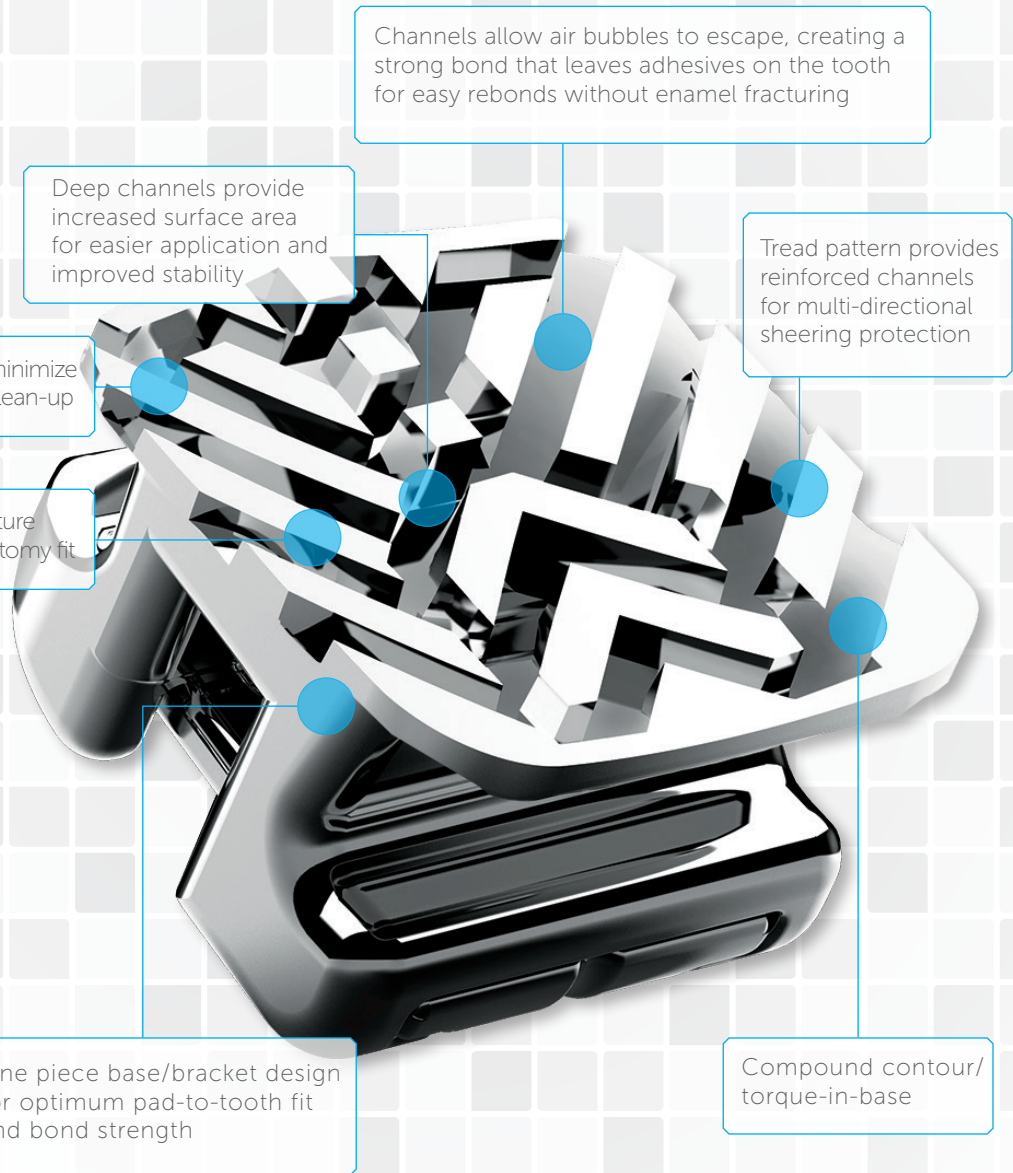
The H4™ is a low-friction, light force orthodontic solution that delivers healthy tooth movement with optimal control. The contoured trajectory of the slide and smooth rounded edges increase patient comfort.



# TREADLOK® FEATURES & BENEFITS



Our patent pending Treadlok® base features the latest in bracket bonding technology. The tread-like pattern creates a bond that holds up better to sheering forces. By utilizing the Treadlok® pattern, our brackets adhere more easily, and with a stronger bond, minimizing bond failures.

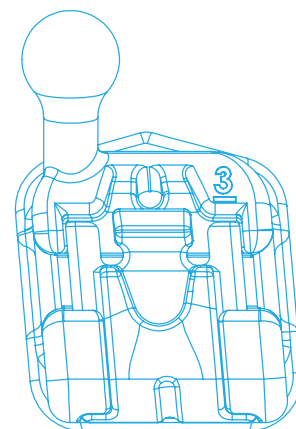
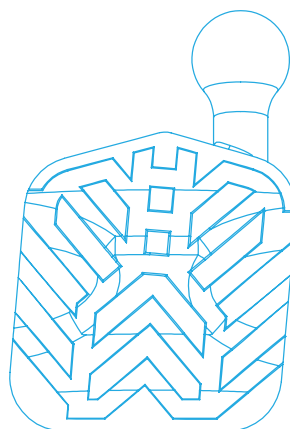
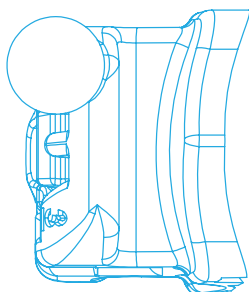
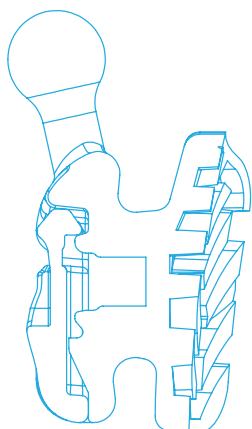
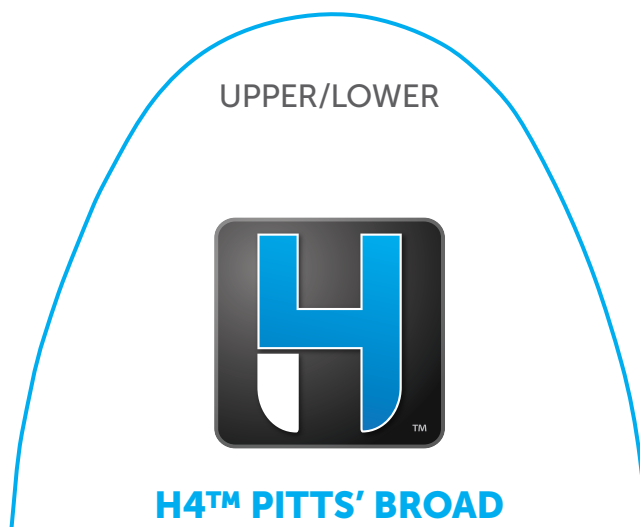




# ARCHWIRE COMPARISON



Diagrams represent typical arch shapes. Actual sizes may vary slightly due to printing tolerances.



# H4™ COLOR ARCHWIRES BOXES

Introducing our new Color-Coded Archwire Boxes. The new color-coded boxes easily identify the material, shape, and archform of the wire contained inside. All identifiers are easily seen from the top, front, back, and both sides making them easy to store and stack. Each box is filled with individually packed wires in convenient Tyvek pouches. The boxes are also perforated on the top for quick access to each individually packed archwire.



- PERFORATED TOP FOR QUICK ACCESS
- INDIVIDUALLY PACKAGED ARCHWIRES
- COLOR-CODED FOR EASY IDENTIFICATION
- MATERIAL, SHAPE, AND ARCHFORM ALL IDENTIFIABLE FROM TOP, FRONT, BACK, AND BOTH SIDES

**SUPER  
ELASTIC**

**THERMAL  
ACTIVATED**

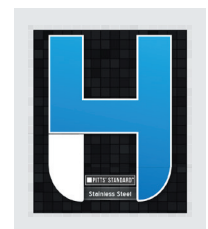
**BETA  
TITANIUM**

**STAINLESS  
STEEL**

**H4™ UNIVERSAL**



**H4™ PITTS' STANDARD**



**H4™ PITTS' BROAD**



■ RECTANGLE

● ROUND

# PITTS' ARCHWIRE SEQUENCE

| WEEKS | NON-EXTRACTION  |              | FLIPPED<br>NON-EXTRACTION |              | EXTRACTION   |              |
|-------|---|--------------|---------------------------|--------------|--|--------------|
| 5     | <div><div></div><div></div></div> <div><b>.012 OR .014</b><br/><b>THERMAL ACTIVATED</b><br/>(10 weeks)</div>          |              |                           |              |  |              |
| 10    |   |              |                           |              |  |              |
| 15    | <div><div></div><div></div></div> <div><b>.018 OR .018 X .018</b><br/><b>THERMAL ACTIVATED</b><br/>(8-10 weeks)</div> |              |                           |              |  |              |
| 20    |   |              |                           |              |  |              |
| 25    | <div><div></div><div></div></div> <div><b>.020 X .020</b><br/><b>THERMAL ACTIVATED</b><br/>(10 weeks)</div>           |              |                           |              |  |              |
| 30    |   |              |                           |              |  |              |
|       | PAN-REPO ADJUST CASE MANAGEMENT (PRACM)   |              |                           |              |  |              |
|       | Rotations   | No Rotations | Rotations                 | No Rotations | Rotations  | No Rotations |
| 35    | <div><div></div><div></div></div> <div><b>.020 X .020</b><br/><b>THERMAL ACTIVATED</b></div>                          |              |                           |              |  |              |
| 40    | <div><div></div><div></div></div> <div><b>.019 X .025</b><br/><b>BETA TITANIUM</b></div>                              |              |                           |              | <div><div></div><div></div></div> <div><b>.018 X .025</b><br/><b>STAINLESS STEEL</b></div> |              |
| 45    | <div><div></div><div></div></div> <div><b>.020 X .020</b><br/><b>BETA TITANIUM</b></div>                              |              |                           |              | <div><div></div><div></div></div> <div><b>.019 X .025</b><br/><b>BETA TITANIUM</b></div>   |              |
| 50+   | <div><div></div><div></div></div> <div><b>.020 X .020</b><br/><b>BETA TITANIUM</b></div>                              |              |                           |              | <div><div></div><div></div></div> <div><b>.019 X .025</b><br/><b>BETA TITANIUM</b></div>   |              |
|       | <div><div></div><div></div></div> <div><b>.017 x .025</b><br/><b>Beta Titanium</b></div>                              |              |                           |              |  |              |

Courtesy of: Dr. Tom Pitts and Dr. Duncan Brown



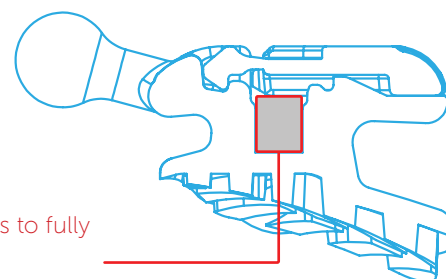
RESET BRACKETS OR PICK UP SECOND MOLARS



FOR ENMASSE SPACE CLOSURE



TO DEACTIVATE THE APPLIANCE WHEN IDEAL AXIAL INCLINATION ATTAINED OR BIOLOGICAL LIMIT IS REACHED



Slot designed to create four-wall contact with larger dimension wires to fully express the wire, providing torque and accuracy in treatment

# H4™ PITTS' BROAD ARCHWIRES

Understanding that each case requires specific attention to detail, we have narrowed down the archwires to the sizes and materials that work best in the H4™ system. The wire slot has been meticulously designed to create the best coupling with larger dimension wires, providing four-wall contact for slot-coupling torque expression.

|                                   |                          | H4™ PITTS' BROAD<br>(NO DIMPLE) | H4™ PITTS' BROAD<br>(DIMPLE) | H4™ PITTS' BROAD<br>(PRE-STOPPED) |          |
|-----------------------------------|--------------------------|---------------------------------|------------------------------|-----------------------------------|----------|
| INCHES                            | MM                       | ITEM<br>NUMBER                  | ITEM<br>NUMBER               | ITEM<br>NUMBER                    |          |
| THERMAL ACTIVATED NICKEL TITANIUM |                          |                                 |                              |                                   |          |
| 10 PACK                           | .012                     | .30                             | 620.0400                     | 621.0400                          | 320.0400 |
|                                   | .014                     | .36                             | 620.0401                     | 621.0401                          | 320.0401 |
|                                   | .016                     | .41                             | 620.0402                     | 621.0402                          | 320.0402 |
|                                   | .018                     | .46                             | 620.0403                     | 621.0403                          | 320.0403 |
|                                   | .020                     | .51                             | 620.0410                     | 621.0410                          | 320.0410 |
|                                   | .018 x .018              | .46 x .46                       | 620.0412                     | 621.0412                          | 320.0412 |
|                                   | .019 x .019              | .48 x .48                       | 620.0413                     | --                                | --       |
|                                   | .020 x .020              | .51 x .51                       | 620.0409                     | 621.0409                          | 320.0409 |
|                                   | .014 x .025 (Extraction) | .36 x .64                       | 620.0404                     | 621.0404                          | 320.0404 |
|                                   | .016 x .025 (Extraction) | .41 x .64                       | 620.0405                     | 621.0405                          | 320.0405 |
|                                   | .018 x .025 (Extraction) | .46 x .64                       | 620.0407                     | 621.0407                          | 320.0407 |
|                                   | .019 x .025              | .48 x .64                       | 620.0408                     | 621.0408                          | 320.0408 |
|                                   | .021 x .025              | .53 x .64                       | 620.0411                     | --                                | 320.0411 |
| SUPER ELASTIC NICKEL TITANIUM     |                          |                                 |                              |                                   |          |
| 10 PACK                           | .014                     | .36                             | 625.0401                     | --                                | 325.0401 |
|                                   | .018                     | .46                             | 625.0403                     | --                                | 325.0403 |
|                                   | .020                     | .51                             | 625.0410                     | --                                | 325.0410 |
|                                   | .017 x .017              | .43 x .43                       | 625.0415                     | --                                | 325.0415 |
|                                   | .020 x .020              | .51 x .51                       | 625.0409                     | --                                | 325.0409 |
| STAINLESS STEEL                   |                          |                                 |                              |                                   |          |
| 10 PACK                           | .018 x .018              | .46 x .46                       | 651.0412                     | --                                | --       |
|                                   | .019 x .019              | .48 x .48                       | 651.0413                     | --                                | --       |
|                                   | .020 x .020              | .51 x .51                       | 651.0409                     | --                                | --       |
|                                   | .016 x .022              | .41 x .56                       | 651.0414                     | --                                | --       |
|                                   | .016 x .025              | .41 x .64                       | 651.0405                     | --                                | --       |
|                                   | .017 x .025              | .43 x .64                       | 651.0406                     | --                                | --       |
|                                   | .018 x .025              | .46 x .64                       | 651.0407                     | --                                | --       |
|                                   | .019 x .025              | .48 x .64                       | 651.0408                     | --                                | --       |
| BETA TITANIUM                     |                          |                                 |                              |                                   |          |
| 5 PACK                            | .018 x .018              | .49 x .46                       | 646.0412                     | --                                | --       |
|                                   | .019 x .019              | .48 x .48                       | 646.0413                     | --                                | --       |
|                                   | .020 x .020              | .51 x .51                       | 646.0409                     | --                                | --       |
|                                   | .016 x .025              | .41 x .64                       | 646.0405                     | --                                | --       |
|                                   | .017 x .025              | .43 x .64                       | 646.0406                     | --                                | --       |
|                                   | .018 x .025              | .46x .64                        | 646.0407                     | --                                | --       |
|                                   | .019 x .025              | .48 x .64                       | 646.0408                     | --                                | --       |
|                                   | .021 x .025              | .53 x 64                        | 646.0410                     | --                                | --       |

COMING SOON

H4™ Pre-Stopped Wires Coming Soon

# H4™ UNIVERSAL ARCHWIRE SEQUENCES

| WEEKS | SHORT SEQUENCE<br>For standard cases                       | LONG SEQUENCE<br>For crowding, short roots, and<br>avoiding protrusion |
|-------|--|--|
| 5     | <b>.014</b><br><b>THERMAL ACTIVATED</b><br>(10 weeks)      | <b>.012</b><br><b>THERMAL ACTIVATED</b><br>(10 weeks)                  |
| 10    |  |  |
| 15    | <b>.018</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)       | <b>.014</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)                   |
| 20    | <b>.014X.025</b><br><b>THERMAL ACTIVATED</b><br>(10 weeks) | <b>.018</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)                   |
| 25    |  | <b>.014X.025</b><br><b>THERMAL ACTIVATED</b><br>(10 weeks)             |
| 30    | <b>.018X.025</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)  |  |
| 35    | <b>.020X.020</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)  | <b>.016X.025</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)              |
| 40    | <b>.019X.025</b><br><b>STAINLESS STEEL</b><br>(6 weeks)    | <b>.018X.025</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)              |
| 45    | <b>.019X.025</b><br><b>BETA TITANIUM</b><br>(4 weeks)      | <b>.020X.020</b><br><b>THERMAL ACTIVATED</b><br>(5 weeks)              |
| 50    |  | <b>.019X.025</b><br><b>STAINLESS STEEL</b><br>(6 weeks)                |
| 55    |  | <b>.017X.025</b><br><b>BETA TITANIUM</b><br>(5 weeks)                  |



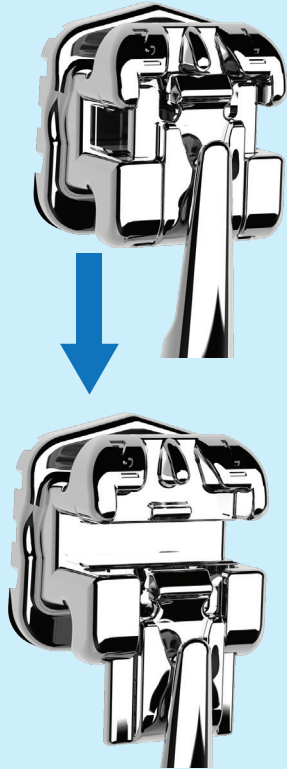
# H4™ ARCHWIRES

|                                   |                          | H4™<br>UNIVERSAL<br>(NO DIMPLE) | H4™<br>UNIVERSAL<br>(DIMPLED) | H4™<br>UNIVERSAL<br>(PRE-STOPPED) | H4™ PITTS' STANDARD<br>(NO DIMPLE) | H4™ PITTS' STANDARD<br>(DIMPLED) | H4™ PITTS' STANDARD<br>(PRE-STOPPED) |          |
|-----------------------------------|--------------------------|---------------------------------|-------------------------------|-----------------------------------|------------------------------------|----------------------------------|--------------------------------------|----------|
| INCHES      MM                    |                          | ITEM<br>NUMBER                  |                               |                                   | ITEM<br>NUMBER                     |                                  |                                      |          |
| THERMAL ACTIVATED NICKEL TITANIUM |                          |                                 |                               |                                   |                                    |                                  |                                      |          |
| 10 PACK                           | .012                     | .30                             | 620.0380                      | 621.0380                          | 320.0380                           | 620.0430                         | 621.0430                             | 320.0430 |
|                                   | .014                     | .36                             | 620.0381                      | 621.0381                          | 320.0381                           | 620.0431                         | 621.0431                             | 320.0431 |
|                                   | .016                     | .41                             | 620.0382                      | 621.0382                          | 320.0382                           | 620.0432                         | 621.0432                             | 320.0432 |
|                                   | .018                     | .46                             | 620.0383                      | 621.0383                          | 320.0383                           | 620.0433                         | 621.0433                             | 320.0433 |
|                                   | .020                     | .51                             | --                            | --                                | --                                 | 620.0440                         | 621.0440                             | 320.0440 |
|                                   | .018 x .018              | .46 x .46                       | --                            | --                                | --                                 | 620.0442                         | --                                   | 320.0442 |
|                                   | .019 X .019              | .48 X .48                       | --                            | --                                | --                                 | 620.0443                         | --                                   | --       |
|                                   | .020 x .020              | .51 x .51                       | 620.0389                      | 621.0389                          | 320.0389                           | 620.0439                         | --                                   | 320.0439 |
|                                   | .014 x .025 (Extraction) | .36 x .64                       | 620.0384                      | 621.0384                          | 320.0384                           | 620.0434                         | 621.0434                             | 320.0434 |
|                                   | .016 x .025 (Extraction) | .41 x .64                       | 620.0385                      | 621.0385                          | 320.0385                           | 620.0435                         | 621.0435                             | 320.0435 |
|                                   | .018 x .025 (Extraction) | .46 x .64                       | 620.0387                      | 621.0387                          | 320.0387                           | 620.0437                         | --                                   | 320.0437 |
|                                   | .019 x .025              | .48 x .64                       | 620.0388                      | 621.0388                          | 320.0388                           | 620.0438                         | 621.0438                             | 320.0438 |
| .021 x .025                       | .53 x .64                | --                              | --                            | --                                | 620.0441                           | --                               | 320.0441                             |          |
| SUPER ELASTIC NICKEL TITANIUM     |                          |                                 |                               |                                   |                                    |                                  |                                      |          |
| 10 PACK                           | .014                     | .36                             | 625.0381                      | 627.0381                          | 325.0381                           | 625.0431                         | 627.0431                             | 325.0431 |
|                                   | .018                     | .46                             | 625.0383                      | 627.0383                          | 325.0383                           | 625.0433                         | 627.0433                             | 325.0433 |
|                                   | .020                     | .51                             | 625.0394                      | 627.0394                          | 325.0394                           | 625.0440                         | 627.0440                             | 325.0440 |
|                                   | .017 x .017              | .43 x .43                       | 625.0395                      | 627.0395                          | 325.0395                           | 625.0445                         | 627.0445                             | 325.0445 |
|                                   | .018 x .018              | .46 x .46                       | --                            | --                                | --                                 | --                               | 627.0442                             | --       |
|                                   | .020 x .020              | .51 x .51                       | 625.0389                      | 627.0389                          | 325.0389                           | 625.0439                         | 627.0439                             | 325.0439 |
|                                   | .014 x .025              | .36 x .64                       | --                            | --                                | 325.0384                           | 625.0434                         | --                                   | 325.0434 |
|                                   | .018 x .025              | .46 x .64                       | --                            | --                                | 325.0387                           | 625.0437                         | --                                   | 325.0437 |
|                                   | .019 x .025              | .48 x .64                       | --                            | --                                | 325.0388                           | 625.0438                         | --                                   | 325.0438 |
| STAINLESS STEEL                   |                          |                                 |                               |                                   |                                    |                                  |                                      |          |
| 10 PACK                           | .018 X .018              | .46 X .46                       | --                            | --                                | --                                 | 651.0442                         | --                                   | --       |
|                                   | .019 X .019              | .48 X .48                       | --                            | --                                | --                                 | 651.0443                         | --                                   | --       |
|                                   | .020 x .020              | .51 x .51                       | 651.0389                      | --                                | --                                 | 651.0439                         | --                                   | --       |
|                                   | .016 x .022              | .41 x .56                       | --                            | --                                | --                                 | 651.0444                         | --                                   | --       |
|                                   | .016 x .025              | .41 x .64                       | 651.0385                      | --                                | --                                 | 651.0435                         | --                                   | --       |
|                                   | .017 x .025              | .43 x .64                       | 651.0386                      | --                                | --                                 | 651.0436                         | --                                   | --       |
|                                   | .018 x .025              | .46 x .64                       | --                            | --                                | --                                 | 651.0437                         | --                                   | --       |
|                                   | .019 x .025              | .48 x .64                       | 651.0388                      | --                                | --                                 | 651.0438                         | --                                   | --       |
| BETA TITANIUM                     |                          |                                 |                               |                                   |                                    |                                  |                                      |          |
| 5 PACK                            | .018 X .018              | .46 X .46                       | --                            | --                                | --                                 | 646.0442                         | --                                   | --       |
|                                   | .019 X .019              | .48 X .48                       | --                            | --                                | --                                 | 646.0443                         | --                                   | --       |
|                                   | .020 x .020              | .51 x .51                       | 646.0389                      | --                                | --                                 | 646.0439                         | --                                   | --       |
|                                   | .016 x .025              | .41 x .64                       | 646.0385                      | --                                | --                                 | 646.0435                         | --                                   | --       |
|                                   | .017 x .025              | .43 x .64                       | 646.0386                      | --                                | --                                 | 646.0436                         | --                                   | --       |
|                                   | .018 x .025              | .46x .64                        | 646.0387                      | --                                | --                                 | 646.0437                         | --                                   | --       |
|                                   | .019 x .025              | .48 x .64                       | 646.0388                      | --                                | --                                 | 646.0438                         | --                                   | --       |
|                                   | .021 x .025              | .53 x .64                       | --                            | --                                | --                                 | 646.0441                         | --                                   | --       |

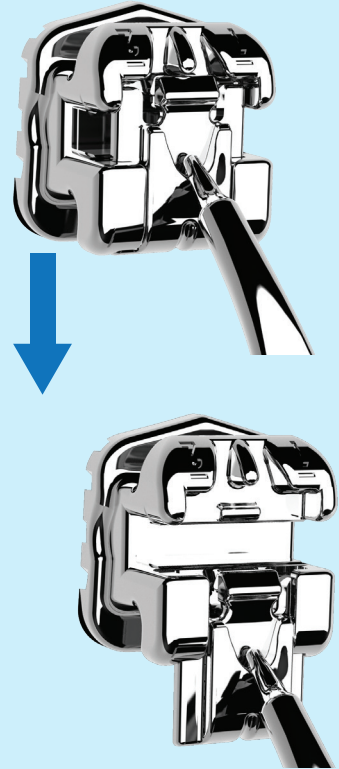
H4™ Pre-Stopped Wires Coming Soon



# H4™ OPENING & CLOSING



Pull sliding door occlusal with H4™ Tool™ and Director Tool™ to open. Push door gingival to close.



The H4™ Tool™ is an excellent opening/closing instrument for all H4 brackets. The sloped tip provides a comfortable angle for opening and closing bracket doors.



#916.0100



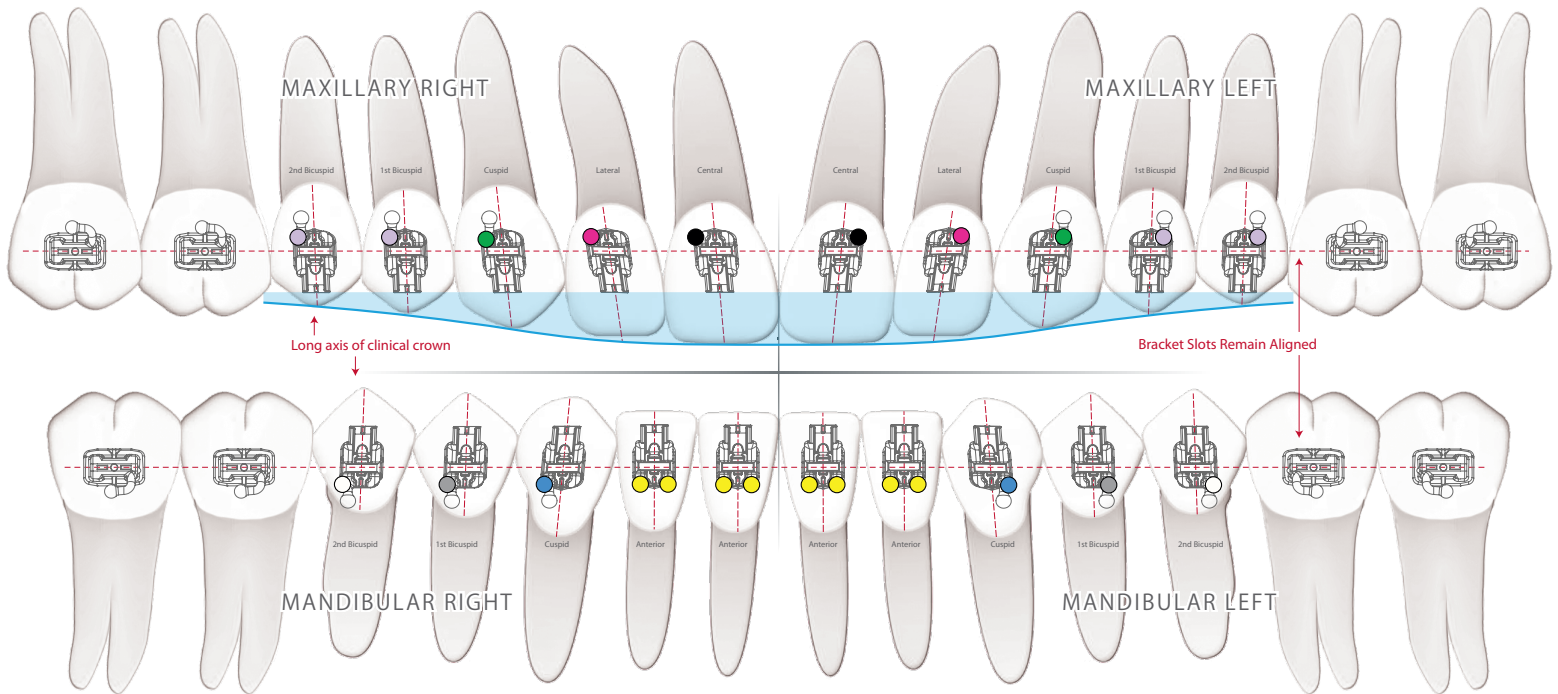
The Director Tool™, inspired by the director, provides swift accuracy in opening the bracket doors for the H4™ brackets. It also helps direct the wires for removal and placement.



#916.0101



# SMILE ARC PROTECT (SAP)









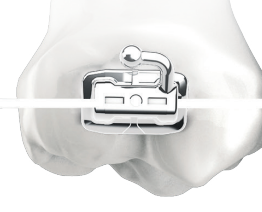
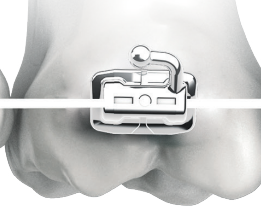
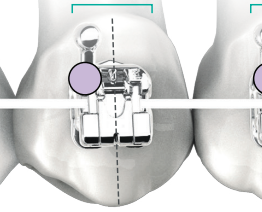
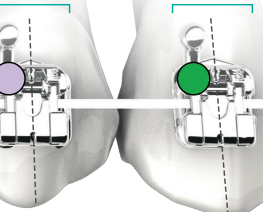
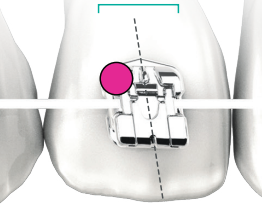
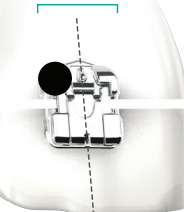
*Smile curve flattened after orthodontic treatment. Brackets bonded with conventional heights.*






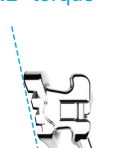


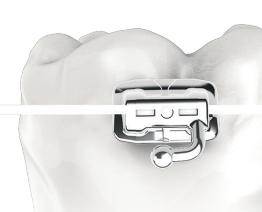
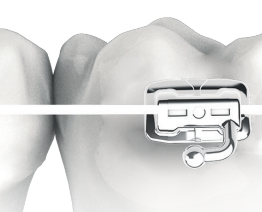
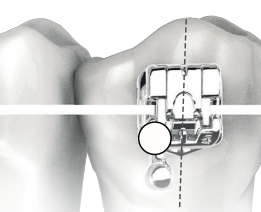
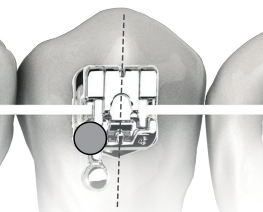
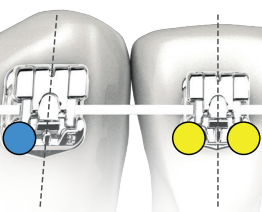
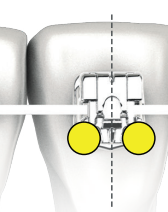
*Consonant Smile-Arc, results of bonding brackets with SAP.*

*Courtesy of Dr. Tomas Castellanos*

# H4™ SELF-LIGATING BRACKETS

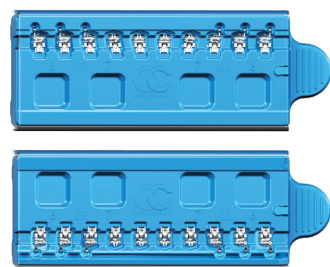
|   |   |   |   |   |   |
|---|---|---|---|---|---|
|  |  |    |  |  |  |
|   |  |    |   |  |  |
| 2nd Molar (UR7)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2101</b>          | 1st Molar (UR6)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2099</b>          | Bicuspid (UR4/5)<br>No Hook<br><b>916.2009</b><br>w/ Distal Hook<br><b>916.2011</b> | Cuspid (UR3)<br>No Hook<br><b>916.2005</b><br>w/ Distal Hook<br><b>916.2007</b>     | Lateral (UR2)<br>No Hook<br><b>916.2003</b>   | Central (UR1)<br>No Hook<br><b>916.2001</b>   |

## RIGHT

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|  |  |    |   |  |  |
|   |  |    |   |  |  |
| 2nd Molar (LR7)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2107</b>            | 1st Molar (LR6)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2107</b>            | 2nd Bicuspid (LR5)<br>No Hook<br><b>916.2022</b><br>w/ Distal Hook<br><b>916.2024</b> | 1st Bicuspid (LR4)<br>No Hook<br><b>916.2018</b><br>w/ Distal Hook<br><b>916.2020</b> | Cuspid (LR3)<br>No Hook<br><b>916.2014</b><br>w/ Distal Hook<br><b>916.2016</b>       | Anterior (L1/2)<br>No Hook<br><b>916.2013</b>   |

## RIGHT

Standard Set (20 Brackets) 5x5



No Hooks  
**916.2034**

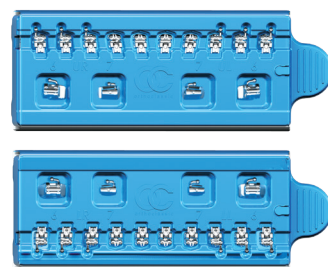
Hooks on 3's  
**916.2030**

Hooks on 3's & 4's  
**916.2031**

Hooks on 4's & 5's  
**916.2033**

Hooks on 3's, 4's, & 5's  
**916.2032**

Standard Full Set (28 Brackets) 7x7



Hooks on 3's, 4's, & 5's  
**916.2155**



# H4™ SELF-LIGATING BRACKETS

|   |   |   |   |  |  |
|---|---|---|---|--|--|
|   |   |   |   |  |  |
| +12° torque<br>+5° angle<br>3.05mm M/D      | +8° torque<br>+9° angle<br>2.54mm M/D       | +7° torque<br>+5° angle<br>3.05mm M/D   | -11° torque<br>+2° angle<br>2.80mm M/D  | -22° torque<br>+9° offset  | -27° torque<br>+9° offset  |
| Central (UL1)<br>No Hook<br><b>916.2002</b> | Lateral (UL2)<br>No Hook<br><b>916.2004</b> | Cuspid (UL3)<br>No Hook<br><b>916.2006</b><br>w/ Distal Hook<br><b>916.2008</b> | Bicuspid (UL4/5)<br>No Hook<br><b>916.2010</b><br>w/ Distal Hook<br><b>916.2012</b> | 1st Molar (UL6)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2100</b> | 2nd Molar (UL7)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2102</b> |

**LEFT**

|   |   |   |   |  |  |
|---|---|---|---|--|--|
|   |   |   |   |  |  |
| Anterior (L1/2)<br>No Hook<br><b>916.2013</b> | Cuspid (LL3)<br>No Hook<br><b>916.2015</b><br>w/ Distal Hook<br><b>916.2017</b> | 1st Bicuspid (LL4)<br>No Hook<br><b>916.2019</b><br>w/ Distal Hook<br><b>916.2021</b> | 2nd Bicuspid (LL5)<br>No Hook<br><b>916.2023</b><br>w/ Distal Hook<br><b>916.2025</b> | 1st Molar (LL6)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2108</b> | 2nd Molar (LL7)<br>H4 Buccal Tube<br>w/ Gingival Hook<br><b>907.2108</b> |
| 2.54mm M/D<br>0° angle<br>-6° torque          | 3.05mm M/D<br>+5° angle<br>+7° torque   | 2.80mm M/D<br>+2° angle<br>-12° torque  | 2.80mm M/D<br>+2° angle<br>-17° torque  | +3° offset<br>-22° torque  | +3° offset<br>-22° torque  |

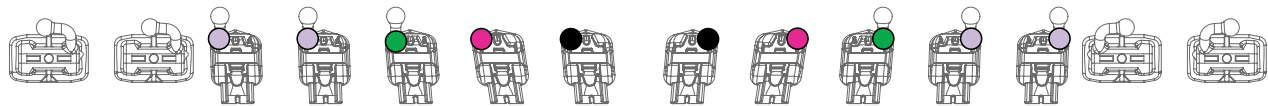
**LEFT**

5x5 H4™ Self-Ligating Typodont  
**#916.0102**





# H4™ SELF-LIGATING BRACKETS



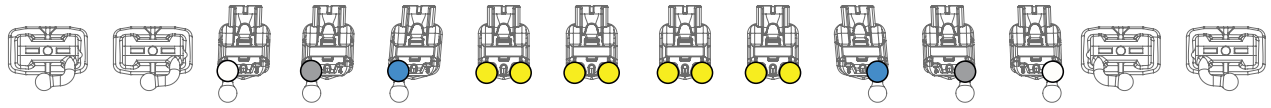
## H4™ MAXILLARY (UPPER)

| TOOTH                | TORQUE | ANGLE | OFFSET | M/D<br>IN MM | COLOR<br>CODE | RIGHT/LEFT | HOOK        | .022 SLOT |
|----------------------|--------|-------|--------|--------------|---------------|------------|-------------|-----------|
| Central<br>(U1)      | +12°   | +5°   | 0°     | 3.05         | ●             | Right      |             | 916.2001  |
|                      |        |       |        |              | ●             | Left       |             | 916.2002  |
| Lateral<br>(U2)      | +8°    | +9°   | 0°     | 2.54         | ●             | Right      |             | 916.2003  |
|                      |        |       |        |              | ●             | Left       |             | 916.2004  |
| Cuspid<br>(U3)       | +7°    | +5°   | 0°     | 3.05         | ●             | Right      |             | 916.2005  |
|                      |        |       |        |              | ●             | Left       |             | 916.2006  |
|                      |        |       |        |              | ●             | Right      | Distal Hook | 916.2007  |
|                      |        |       |        |              | ●             | Left       | Distal Hook | 916.2008  |
| Bicuspid<br>(U4, U5) | -11°   | +2°   | 0°     | 2.80         | ●             | Right      |             | 916.2009  |
|                      |        |       |        |              | ●             | Left       |             | 916.2010  |
|                      |        |       |        |              | ●             | Right      | Distal Hook | 916.2011  |
|                      |        |       |        |              | ●             | Left       | Distal Hook | 916.2012  |
| 1st Molar<br>(U6)    | -22°   | +9°   |        | 3.70         |               | Right      | Gingival    | 907.2099  |
|                      |        |       |        |              |               | Left       | Gingival    | 907.2100  |
| 2nd Molar<br>(U7)    | -27°   | +9°   |        | 3.70         |               | Right      | Gingival    | 907.2101  |
|                      |        |       |        |              |               | Left       | Gingival    | 907.2102  |

## H4™ FULL (5X5) SETS

| DESCRIPTION                | HOOKS                    | .022 SLOT |
|----------------------------|--------------------------|-----------|
| Full Set (20 Brackets) 5x5 | No Hooks                 | 916.2034  |
| Full Set (20 Brackets) 5x5 | Hooks on 3's, 4's, & 5's | 916.2032  |
| Full Set (20 Brackets) 5x5 | Hooks on 3's & 4's       | 916.2031  |
| Full Set (20 Brackets) 5x5 | Hooks on 4's & 5's       | 916.2033  |
| Full Set (20 Brackets) 5x5 | Hooks on 3's Only        | 916.2030  |

# H4™ SELF-LIGATING BRACKETS



## H4™ MANDIBULAR (LOWER)

| TOOTH                   | TORQUE | ANGLE | OFFSET | M/D<br>IN MM | COLOR<br>CODE | RIGHT/LEFT | HOOK        | .022 SLOT |
|-------------------------|--------|-------|--------|--------------|---------------|------------|-------------|-----------|
| Anteriors<br>(L1, L2)   | -6°    | 0°    | 0°     | 2.54         | ●●            | Universal  |             | 916.2013  |
|                         |        |       |        |              | ●             | Right      |             | 916.2014  |
| Cuspid<br>(L3)          | +7°    | +5°   | 0°     | 3.05         | ●             | Left       |             | 916.2015  |
|                         |        |       |        |              | ●             | Right      | Distal Hook | 916.2016  |
|                         |        |       |        |              | ●             | Left       | Distal Hook | 916.2017  |
|                         |        |       |        |              | ●             | Right      |             | 916.2018  |
| 1st Bicuspid<br>(L4)**  | -12°   | +2°   | 0°     | 2.80         | ●             | Left       |             | 916.2019  |
|                         |        |       |        |              | ●             | Right      | Distal Hook | 916.2020  |
|                         |        |       |        |              | ●             | Left       | Distal Hook | 916.2021  |
|                         |        |       |        |              | ●             | Right      |             | 916.2022  |
| 2nd Bicuspid<br>(L5)**  | -17°   | +2°   | 0°     | 2.80         | ○             | Left       |             | 916.2023  |
|                         |        |       |        |              | ○             | Right      | Distal Hook | 916.2024  |
|                         |        |       |        |              | ○             | Left       | Distal Hook | 916.2025  |
|                         |        |       |        |              | ○             | Right      |             | 916.2026  |
| 1st/2nd Molar<br>(L6,7) | -22°   |       | +3°    | 3.70         |               | Right      | Gingival    | 907.2107  |
|                         |        |       |        |              |               | Left       | Gingival    | 907.2108  |

## H4™ FULL 7x7 SETS

| DESCRIPTION                | HOOKS                    | .022 SLOT |
|----------------------------|--------------------------|-----------|
| Full Set (28 Brackets) 7x7 | Hooks on 3's, 4's, & 5's | 916.2155  |

### SINGLE BRACKETS AVAILABLE IN:



5 PACK ULTRA MINI TRAYS

# 5-CASE STARTER KIT

## H4™ 5-CASE STARTER KIT

The H4™ Starter Kit is an easy way to be introduced to the system. Each kit includes: 5 Full Sets (7x7) of H4™ brackets and H4™ buccal tubes, (6) Sets of H4™ Pitts' Broad Archwires (5 upper and 5 lower of each set), H4™ Tool™, Angled Self-Locking Bracket Tweezer, SAP Ruler, H4™ USB Flash Drive, and H4™ Kit Brochure.

## Starter Kit Wires

### .022 SLOT WIRE SETS

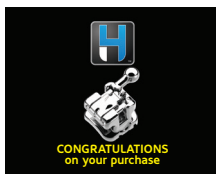
#### 5 SETS OF H4™ PITTS' BROAD ARCHWIRES WIRES

|             |             |                               |
|-------------|-------------|-------------------------------|
| .014        | .36mm       | Thermal Activated (10 Wires)  |
| .018        | .46mm       | Thermal Activated (10 Wires)  |
| .014 x .025 | .36 x .64mm | Thermal Activated (10 Wires)  |
| .018 x .025 | .46 x .64mm | Thermal Activated (10 Wires)  |
| .017 x .025 | .43 x .64mm | Beta Titanium (Lower 5 Wires) |
| .019 x .025 | .48 x .64mm | Beta Titanium (Upper 5 Wires) |



5

FULL 7X7 SETS



1

H4™ KIT  
BROCHURE



6

PACKS OF (10)  
H4™ PITTS' BROAD



1

RESOURCE  
USB DRIVE



1

H4™  
TOOL™



1

ANGLED BRACKET  
TWEezer



1

SAP  
RULER

## H4™ 5-CASE STARTER KIT

### DESCRIPTION

.022 H4™ 5-Case Starter Kit

### HOOKS

3's, 4's, and 5's

### ITEM NUMBER

916.2150







ACTUAL PATIENT OF DR. TOMAS CASTELLANOS















# ELASTIC AND COIL SPRING SELECTION CHARTS

## SELECTING THE APPROPRIATE ELASTICS AND COIL SPRINGS









The charts provided make selecting the appropriate latex elastics, non-latex elastics and coils springs easier than ever. Simply measure the distance in mm between the desired hooks, then using that measurement select the appropriate strength or size. The cross-point of those selections will give you the applicable elastic or coil spring to use for optimum results.



## NON-LATEX ELASTIC SELECTION CHART

| Desired Strength                   | 1/8" (3mm)   |   |  |  |    |  |    |    | 3/16" (5mm)  |    |  |  |    |  |    |    | 1/4" (6mm)   |    |  |  |    |  |  |  | 50 PACKS OF 100 |  |  |  |  |  |  |  |
|------------------------------------|--|---|--|--|----|--|----|----|--|----|--|--|----|--|----|----|--|----|--|--|----|--|--|--|-----------------|--|--|--|--|--|--|--|
| 2.5 oz.                            | <br>60.63.933.00025 |   |  |  |    |  |    |    | <br>60.63.943.00025 |    |  |  |    |  |    |    | <br>60.63.953.00025 |    |  |  |    |  |  |  |                 |  |  |  |  |  |  |  |
| 3.5 oz.                            |  |   | <br>60.63.934.00035 |  |    |  |    |    |  |    | <br>60.63.944.00035 |  |    |  |    |    |  |    | <br>60.63.954.00035 |  |    |  |  |  |                 |  |  |  |  |  |  |  |
| 4.5 oz.                            |  |   |  | <br>60.63.935.00045 |    |  |    |    |  |    |  | <br>60.63.945.00045 |    |  |    |    |  |    |  | <br>60.63.955.00045 |    |  |  |  |                 |  |  |  |  |  |  |  |
| 6.0 oz                             |  |   |  |  |    | <br>60.63.936.00060 |    |    |  |    |  |  |    | <br>60.63.946.00060 |    |    |  |    |  |  |    | <br>60.63.956.00060 |  |  |                 |  |  |  |  |  |  |  |
|                                    | 8  | 9 | 10   | 11   | 12 | 13   | 14 | 15 | 16   | 17 | 18   | 19   | 20 | 21   | 22 | 23 | 24   | 25 | 26   | 27   | 28 | 29   |  |  |                 |  |  |  |  |  |  |  |
| Distance from Hook to Hook (in mm) |  |   |  |  |    |  |    |    |  |    |  |  |    |  |    |    |  |    |  |  |    |  |  |  |                 |  |  |  |  |  |  |  |

Distance from Hook to Hook (in mm)

| Desired Strength | 5/16" (8mm)  |    |  |  |   |    |    |    |    |    | 3/8" (9mm)   |    |    |  |  |    |    |  |  |  |  |  |  |  |  |  |
|------------------|--|----|--|--|---|----|----|----|----|----|--|----|----|--|--|----|----|--|--|--|--|--|--|--|--|--|
| 2.5 oz.          | <br>60.63.963.00025 |    |  |  |   |    |    |    |    |    | <br>60.63.973.00025 |    |    |  |  |    |    |  |  |  |  |  |  |  |  |  |
| 3.5 oz.          |  |    |  | <br>60.63.964.00035 |   |    |    |    |    |    |  |    |    | <br>60.63.974.00035 |  |    |    |  |  |  |  |  |  |  |  |  |
| 4.5 oz.          |  |    | <br>60.63.965.00045 |  |   |    |    |    |    |    |  |    |    |  | <br>60.63.975.00045 |    |    |  |  |  |  |  |  |  |  |  |
| 6.0 oz           |  |    |  |  | <br>60.63.966.00060 |    |    |    |    |    |  |    |    |  | <br>60.63.976.00060 |    |    |  |  |  |  |  |  |  |  |  |
|                  | 26   | 27 | 28   | 29   | 30  | 31 | 32 | 33 | 34 | 35 | 36   | 37 | 38 | 39   | 40   | 41 | 42 |  |  |  |  |  |  |  |  |  |

Distance from Hook to Hook (in mm)



## COIL SPRING SELECTION CHART

| Size  | Force Grams (x) | Stretch in mm to Obtain the (x) Force |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|-----------------|---------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 9 MM  | 75              | 14                                    | 15 | 16 | 17 | 18 |    |    |    |    |    |    |    |    |    |    |    |
|       | 150             |                                       |    |    | 17 | 18 | 19 | 20 | 21 |    |    |    |    |    |    |    |    |
|       | 200             |                                       |    |    |    |    |    |    |    | 22 | 23 | 24 | 25 | 26 |    |    |    |
|       | 250             |                                       |    |    |    |    |    |    |    | 22 | 23 | 24 | 25 | 26 |    |    |    |
| 12 MM | 75              |                                       |    |    | 17 | 18 | 19 | 20 | 21 |    |    |    |    |    |    |    |    |
|       | 150             |                                       |    |    |    |    |    |    |    |    |    |    | 26 | 27 | 28 | 29 | 30 |
|       | 200             |                                       |    |    |    |    |    |    |    |    |    | 24 | 25 | 26 | 27 | 28 |    |
|       | 250             |                                       |    |    | 17 | 18 | 19 | 20 | 21 |    |    |    |    |    |    |    |    |













If distance is larger than coil spring, metal ligature is suggested

■ WITHIN WORKING RANGE










■ IDEAL FORCE LEVELS

## LATEX ELASTIC SELECTION CHART

50 PACKS OF 100

| Desired Strength | 1/8" (3mm)  |   |    |    |   |   |    | 3/16" (5mm)   |    |    |    |    |  |   | 1/4" (6mm)  |    |    |    |   |    |   |   |  |  |  |  |  |  |
|------------------|---|---|----|----|---|---|----|---|----|----|----|----|--|---|---|----|----|----|---|----|---|---|--|--|--|--|--|--|
|                  | <div></div> <div>Plain: 60.63.933.00025<br/>Color: 60.63.933.31025</div> |   |    |    |   |   |    | <div></div> <div>Plain: 60.63.943.00025<br/>Color: 60.63.943.31025</div> |    |    |    |    |  |   | <div></div> <div>Plain: 60.63.953.00025<br/>Color: 60.63.953.31025</div>   |    |    |    |   |    |   |   |  |  |  |  |  |  |
| 2.5 oz.          |   |   |    |    |   |   |    |   |    |    |    |    |  |   |   |    |    |    |   |    |   |   |  |  |  |  |  |  |
| 3.5 oz.          |   | <div></div> <div>Plain: 60.63.934.00035<br/>Color: 60.63.934.31035</div> |    |    |   |   |    |   |    |    |    |    | <div></div> <div>Plain: 60.63.944.00035<br/>Color: 60.63.944.31035</div> |   |   |    |    |    | <div></div> <div>Plain: 60.63.954.00035<br/>Color: 60.63.954.31035</div> |    |   |   |  |  |  |  |  |  |
| 4.5 oz.          |   |   |    |    | <div></div> <div>Plain: 60.63.935.00045<br/>Color: 60.63.935.31045</div> |   |    |   |    |    |    |    |  | <div></div> <div>Plain: 60.63.945.00045<br/>Color: 60.63.945.31045</div> |   |    |    |    |   |    |   | <div></div> <div>Plain: 60.63.955.00045<br/>Color: 60.63.955.31045</div> |  |  |  |  |  |  |
| 6.0 oz           |   |   |    |    |   | <div></div> <div>Plain: 60.63.936.00060<br/>Color: 60.63.936.31060</div> |    |   |    |    |    |    |  |   | <div></div> <div>Plain: 60.63.946.00060<br/>Color: 60.63.946.31060</div> |    |    |    |   |    | <div></div> <div>Plain: 60.63.956.00060<br/>Color: 60.63.956.31060</div> |   |  |  |  |  |  |  |
|                  | 11  | 12  | 13 | 14 | 15  | 16  | 17 | 18  | 19 | 20 | 21 | 22 | 23   | 24  | 25  | 26 | 27 | 28 | 29  | 30 | 31  | 32  |  |  |  |  |  |  |

Distance from Hook to Hook (in mm)

|                  |             |   |   |    |    |   |   |    |    |   |  |   |    |    |    |    |    |    |  |  |  |
|------------------|-------------|---|---|----|----|---|---|----|----|---|--|---|----|----|----|----|----|----|--|--|--|
| Desired Strength | 5/16" (8mm) |   |   |    |    | 3/8" (9mm)  |   |    |    |   |  |   |    |    |    |    |    |    |  |  |  |
| 2.5 oz.          |             | <br>Plain: 60.63963.00025<br>Color: 60.63963.31025 |   |    |    |   | <br>Plain: 60.63973.00025<br>Color: 60.63973.31025 |    |    |   |  |   |    |    |    |    |    |    |  |  |  |
| 3.5 oz.          |             |   | <br>Plain: 60.63964.00035<br>Color: 60.63964.31035 |    |    |   | <br>Plain: 60.63974.00035<br>Color: 60.63974.31035 |    |    |   |  |   |    |    |    |    |    |    |  |  |  |
| 4.5 oz.          |             |   |   |    |    |   | <br>Plain: 60.63965.00045<br>Color: 60.63965.31045 |    |    |   |  | <br>Plain: 60.63975.00045<br>Color: 60.63975.31045 |    |    |    |    |    |    |  |  |  |
| 6.0 oz           |             |   |   |    |    | <br>Plain: 60.63966.00060<br>Color: 60.63966.31060 |   |    |    | <br>Plain: 60.63976.00060<br>Color: 60.63976.31060 |  |   |    |    |    |    |    |    |  |  |  |
|                  | 28          | 29  | 30  | 31 | 32 | 33  | 34  | 35 | 36 | 37  | 38   | 39  | 40 | 41 | 42 | 43 | 44 | 45 |  |  |  |

Distance from Hook to Hook (in mm)

Courtesy of: Dr. Tomas Castellanos

# THE FUTURE OF ORTHODONTICS



## INVENTORY SIMPLIFIED

# OrthoVend®





Orthodontic inventory can often turn into an expensive headache. Nothing is more frustrating or more costly than running out of a product when you have a patient in the chair. Ortho Classic has created a product that addresses all of these issues and more. The OrthoVend Simplified Inventory Management system is a fully automated inventory system. Small enough to fit on just about any counter, the OrthoVend will securely store and track your inventory for you.

The system can hold a month's worth to a year's worth of inventory and automatically reorders product once it reaches a pre-designated reorder point that you (the doctor) have set. The best part about this system; nothing is charged to you until you use it. This means you can literally have thousands of dollars worth of inventory at hands reach and not pay for any of it until it is dispensed.

Using state-of-the-art touch screen technology; product is dispensed through a few simple screen touches.

The system then records and tracks the product usage and inventory levels in real time. It can also track useful information on bracket usage, treatment class and Div for various treatment studies.

*"We have been using OrthoVend for the past 18 months, and for our practice it has been a game changer. We now carry minimal inventory, and purchase brackets on a "per swipe" basis, which is saving us literally 10's of thousands of dollars every year. I now never have to adjust inventory, or count cases of brackets to see if we have enough.....best piece of technology I have installed in the last couple of years!"*

*-Duncan Y. Brown B.Sc., D.D.S., D. Ortho*

The OrthoVend system will eliminate the possibility of ever running out of product, stock shrinkage, waste and mix ups. It will reduce errors in storage and incorrect product as well as reduce bracket handling, and the chance of possible contamination.

## FEATURES



### Pay-As-You-Go

Only pay for inventory you use



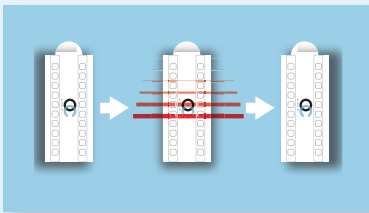
### Organized Inventory

Unclutter your office and reduce product loss



### Touch Screen

Quick and easy vending interface



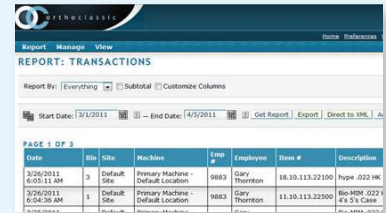
### Fail-Safe Sensors

Ensure proper vending every time



### Automatic Reordering

Never run out of inventory



### Online Management

Track usage, inventory levels and expenditures



# QUALITY ORTHODONTICS

We are dedicated to providing the highest quality, most reliable products on the market at competitive prices while manufacturing our products in the United States. Join us in building the future of our country!

**USA**  
**BUILD THE**  
**FUTURE™**



## Ortho Classic Catalog

Find more quality products and services in our latest catalog. Call 866.752.0065 (U.S. and Puerto Rico) or +1.503.472.8320 (Outside the US) and request a catalog today! We look forward to doing business with you.







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education | community | collaboration

**WISDOM  
BEGINS  
WITH  
WONDER.**



**KEYNOTE SPEAKER**

**Dr. Tom Pitts**



## **The Pinnacle is:**

- A fun educational orthodontic event
- An opportunity to listen & interact with progressive educators
- An arena for exciting new creative thinkers
- A breath of fresh ideas
- An occasion to rediscover your passion

**Dallas, TX    OCTOBER 8 - 11, 2015**

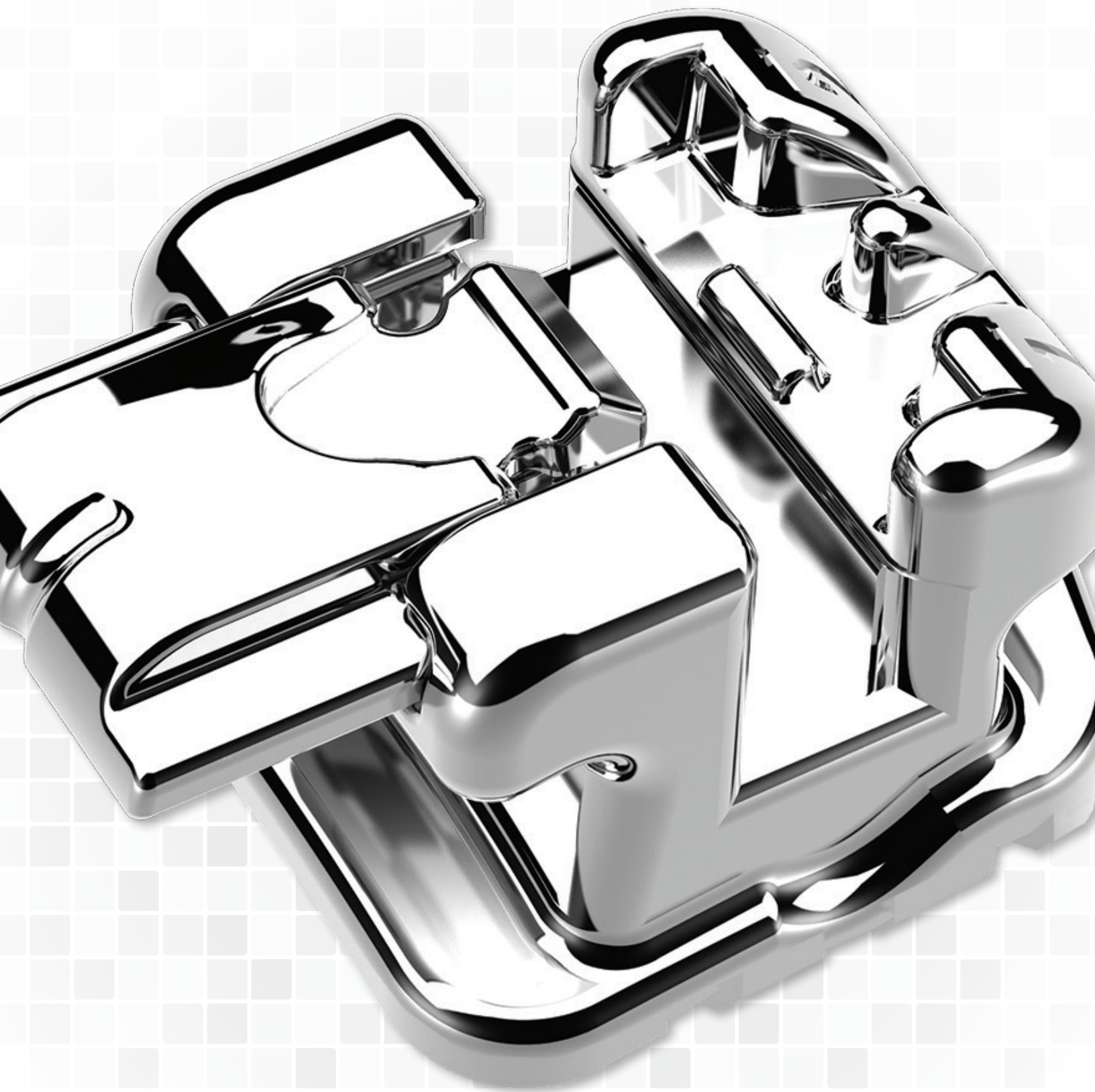
For More Information



[www.orthoclassic.com/pinnacle](http://www.orthoclassic.com/pinnacle)







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