Spider Screw®
Temporary Anchorage Device System

Ortho Technology®
Made by HDC Italy
Orthodontic Head
The orthodontic head was designed to facilitate appliance (wires, springs, etc.) placement. There is a bracket-like head featuring two intersecting .022” slots. The under tie-wing area can also function as another .022” x .025” slot and features two intersecting slots of .027” in diameter with chamfered inlets to simplify insertion of wires or ligatures. The small head size is designed for patient comfort.

Transmucosal Portion
The length of the transmucosal portion is variable and allows for optimal adaptation to different intraoral mucosa thicknesses during bio-maintenance. Short for areas of thinly attached gingiva. Long for areas with thick or freely moveable tissues.

The transmucosal portion is polished with a special treatment to help avoid soft tissue irritation and make cleaning easier to accomplish.

Intrabony Portion
The Spider Screw's thread shape has an asymmetrical profile making it easy to place while ensuring maximum stability and avoiding bone stress.

Spider Screw K1 1.5 mm and Spider Screw K2 1.9 mm, conical thread, are self-drilling and self-tapping which makes pre-drilling before insertion unnecessary dependant upon bone structure. This makes the Spider Screw K1 and Spider Screw K2 easy to place while reducing the risk of root damage.

High Quality Materials
• Grade 5 titanium construction
• Nickel-free for sensitive patients
The Spider Screw System

The Spider Screw’s geometry is a result of careful design in every single detail. In fact, the Spider Screw has obtained two international patents since its inception, due to its innovative characteristics: the simultaneous presence of the external and internal rectangular slots and round internal slots.

The Spider Screw is extremely versatile, due to its small dimensions and unique design. It is easily placed in either the maxilla or mandible, even where access is limited and bone quality is less than ideal. Placement is simplified by the self-drilling feature found in the K1 and K2 Spider Screw systems.

The Spider Screw has been developed to offer a number of versatile anchorage options capable of immediate loading, which is possible because the Spider Screw is a non-osteointegrable implant and consequently force can be applied immediately after placement. The applied force can range from 50 to 300 grams depending on screw choice, bone quality, and the desired orthodontic movement.

The Spider Screw is an anchorage device that can be used during every phase of orthodontic treatment and is suitable for symmetric or asymmetric anchorage. The Spider Screw assists in the success of orthodontic treatment, both in adults and adolescents, by reducing treatment times without patient compliance.

Clinical Cases

Intrusion Posterior Areas

Direct Anchorage Uprighting and Molar Intrusion

Class II Correction

Lower Molar Protraction Indirect Anchorage

Molar Uprighting and Intrusion
## Self-Ligating K1 Plus Series
### Conical: Self-Drilling Thread
The Spider Screw Self-Ligating TAD - K1 is self-drilling and self-tapping. Due to the design of the conical thread, drilling is eliminated in most areas of the mouth. In areas of high bone density, it may be necessary to utilize the 1.1 mm drill provided to penetrate the cortical plate. The locking head is color coded yellow for easy identification.

### K1 Series
#### Conical: Self-Drilling Thread
The Spider Screw - K1 is self-drilling and self-tapping. Due to the design of the conical thread, drilling is eliminated in most areas of the mouth. In areas of high bone density, it may be necessary to utilize the 1.1 mm drill provided to penetrate the cortical plate.

### K2 Series
#### Conical: Self-Drilling Thread
The Spider Screw - K2 is self-drilling and self-tapping. Due to the design of the conical thread, drilling is eliminated in most areas of the mouth. In areas of high bone density, it may be necessary to utilize the 1.2 mm drill provided to penetrate the cortical plate.

### Short Neck: Reduced neck height for thin tissue (anterior and lateral areas)
### Long Neck: Oversize neck height for soft thick tissue (posterior and lateral areas)

## Self-Ligating K2 Plus Series
### Conical: Self-Drilling Thread
The Spider Screw Self-Ligating TAD - K2 is self-drilling and self-tapping. Due to the design of the conical thread, drilling is eliminated in most areas of the mouth. In areas of high bone density, it may be necessary to utilize the 1.2 mm drill provided to penetrate the cortical plate. The locking head is color coded green for easy identification.

### K2 Series
#### Conical: Self-Drilling Thread
The Spider Screw - K2 is self-drilling and self-tapping. Due to the design of the conical thread, drilling is eliminated in most areas of the mouth. In areas of high bone density, it may be necessary to utilize the 1.2 mm drill provided to penetrate the cortical plate.

### Short Neck – 1.0 mm
<table>
<thead>
<tr>
<th>Length</th>
<th>Item #</th>
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</thead>
<tbody>
<tr>
<td>6.5 mm</td>
<td>SCR-1506</td>
</tr>
<tr>
<td>8.0 mm</td>
<td>SCR-1508</td>
</tr>
<tr>
<td>10.0 mm</td>
<td>SCR-1510</td>
</tr>
<tr>
<td>3.4 mm diameter head</td>
<td>1.5 mm diameter body</td>
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### Long Neck – 2.0 mm
<table>
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<tr>
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<tbody>
<tr>
<td>6.5 mm</td>
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<td>3.9 mm diameter head</td>
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<tbody>
<tr>
<td>6.0 mm</td>
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<td>7.0 mm</td>
<td>SCR-1907</td>
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<td>11.0 mm</td>
<td>SCR-1911</td>
</tr>
<tr>
<td>3.4 mm diameter head</td>
<td>1.9 mm diameter body</td>
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</tbody>
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<td>SXL-1911</td>
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<td>3.9 mm diameter head</td>
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</table>
Spider Screw®
Self-Ligating TAD System

Open
Closed

The locking head is color coded for easy identification

Head slot fits wires up to .018" x .022"

Long collared neck

Asymmetrical threads for easy placement and stability

Self-drilling and self-tapping with no pre-drilling required

Insert wire and turn Spider Screw Self-Ligating TAD head 90° with Self-Ligating Driver to secure

Available online orthotechnology.com/slss
Spider Screw® Self-Ligating TAD K1, K2 Starter Kit

Spider Screw Self-Ligating TAD Starter Kit
Item #: CSS-6008
- 1 x 1.1 mm x 8.0 mm drill - K1
- 1 x 1.3 mm x 9.0 mm drill - K2
- 1 x Pick-up driver shaft - sxl
- 1 x Contra angle pick-up driver short - sxl
- 1 x Self-ligating TAD key
- 1 x Handle driver - sxl
- 1 x Screw driver body
- 1 x Organizer

Replacement Organizer · Self-Ligating TAD K1, K2
Item #: CSS-6000

Entire Kit Can Be Sterilized
- Autoclavable up to 273°F/134°C
- Heat Sterilizable up to 356°F/180°C
- Chemiclavable up to 297°F/132°C

1 Year Warranty on Instruments

Included in Starter Kit

8.0 mm Drill · K1
Item #: FSC-1108-S
1.1 mm x 8.0 mm

9.0 mm Drill · K2
Item #: FSC-1309
1.3 mm x 9.0 mm

Pick-Up Driver Shaft · SXL
Item #: DSP-5652S
52.0 mm

Contra Angle Pick-Up Driver Short · SXL
Item #: DPQ-3420
20.0 mm

Self-Ligating TAD Key
Item #: DXL-2820

Handle Driver · SXL
Item #: DSQ-3424

Screw Driver Body
Item #: DSX-1690N-S

Optional Spider Screw Self-Ligating TAD Items

Contra Angle Pick-Up Driver Long · SXL
Item #: DPQ-3425
25.0 mm

Optional Round Replacement End for Screw Driver Body DSX-1690N-S
Item #: RCX-2545

Wide and Round End Handles provide easier, more ergonomic grip for larger hands

Screw Driver Body Wide Handle
Item #: DSX-1690RC
Spider Screw®
K1, K2 Starter Kit

Included in Starter Kit

8.0 mm Drill - K1
Item #: FSC-1108-S
1.1 mm x 8.0 mm

9.0 mm Drill - K2
Item #: FSC-1309
1.3 mm x 9.0 mm

Pick-Up Driver Shaft
Item #: DSP-5052N-S
Cross Driver Shaft
Item #: DSX-2852N-S

Contra Angle Pick-Up Driver
Item #: DPQ-2820-S
20.0 mm

Handle Driver
Item #: DSQ-2824-S

Screw Driver Body
Item #: DSX-1690N-S

Optional Items

- Automatically releases when the calibrated torque is reached to avoid overloading
- Torque can be set from 5 to 20 Ncm
- Helps eliminate screw breakage

Torque Screw Driver Body
Item #: DST-1600-S
1.2 mm x 10.0 mm

Contra Angle Pick-Up Driver
Item #: DPQ-2825
25.0 mm

10.0 mm Drill
Item #: FSC-1210-S
1.2 mm x 10.0 mm

Pick-Up Handle Driver
Item #: DPH-2824-S

Contra Angle Cross Driver
Item #: DPX-2830-S
30.0 mm

Replacememt Organizer - K1, K2
Item #: CSS-4000

Entire Kit Can Be Sterilized
- Autoclavable up to 273°F/134°C
- Heat Sterilizable up to 356°F/180°C
- Chemiclavable up to 297°F/132°C

1 Year Warranty on Instruments

Ortho Technology Spider Screw Temporary Anchorage Device System
Make TAD Treatment

Spider Screw Demo Typodont
Precision crafted with a clear flexibase and rooted teeth to visualize Spider Screw placement. The perfect treatment aid for case presentation. Comes completely ligated with Stainless Steel Bracket System, 3x Spider Screws (1x Self-Ligating K1 Plus and 2x K1), 2x TAD Coil Springs, 2x Split Curved Hooks, 2x TruFit 2.0 1st Molar Bands, 4x TruEase™ Mini Buccal Tubes, and 2x TruEase™ Buccal Tubes to simulate a few of the many versatile treatment options the Spider Screw system has to offer.

Spider Screw Demo Typodont
Item #: G50-801

Spider Screw Mini Typodont
Precision crafted with a clear flexibase and rooted teeth to visualize Spider Screw placement, the perfect treatment aid for case presentation. Comes with 1x K1 Spider Screw (SCR-1506) placed between roots of LL6 and LL7.

Spider Screw Mini Typodont
Item #: G50-099

Crimpable Tubes
- Easily connect auxiliary and custom attachments to archwire
- Perfect for all orthodontic anchorage systems
- Diverse TAD technique use
- High quality stainless steel

Double Tubes
Item #: 100300
3.0 mm length, .022" slot, 10 per pack

Cross Tubes
Item #: 100310
2.0 mm length, .022" slot, 10 per pack

EZ Slider™
Easy Protraction or Retraction For All TAD Systems
Creates Parallel Forces that Prevent Unwanted Tipping and Rotations While Allowing the Movement of Multiple Teeth

Includes 3 Sizes:
- Short 12.5 mm – Qty 4
  Use with premolars and canines
- Medium 20.0 mm – Qty 4
  Use with first molars
- Long 30.0 mm – Qty 4
  Use with second molars

2x hooks on left, 2x hooks on right of each size

EZ Slider
Item #: 10028
12 per pack

Ortho Technology Spider Screw Temporary Anchorage Device System
TruFlex™ Nickel Titanium TAD Closed Coil Springs

- Specifically for use with the Spider Screw System
- Can also be used with other TAD systems with a head size smaller than 3.0 mm

<table>
<thead>
<tr>
<th>Light Force 100.0 gm</th>
<th>Medium Force 150.0 gm</th>
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</thead>
<tbody>
<tr>
<td>9.0 mm (.009” x .030”)</td>
<td>9.0 mm (.011” x .030”)</td>
</tr>
<tr>
<td>12.0 mm (.009” x .030”)</td>
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<table>
<thead>
<tr>
<th>Heavy Force 200.0 gm</th>
</tr>
</thead>
<tbody>
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<td>9.0 mm (.012” x .030”)</td>
</tr>
<tr>
<td>12.0 mm (.012” x .030”)</td>
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</tbody>
</table>

10 per pack

Crimpable Archwire Hooks with Split Archwire Opening

- Excellent for use with miniscrew attachments
- Easily and securely attach closed coil springs or any auxiliary attachments
- Can be placed onto archwires in or out of the mouth

- Curved 6.8 mm tall and fits archwires up to .022” x .025”

Patient Left .........................20104L
Patient Right .......................20104R
20 per pack

Crimpable Ball Hooks with Split Archwire Opening

- High quality nickel-free stainless steel
- Can be placed precisely without removing the archwire
- Crimps to rectangular archwires up to .022” x .025”

Split Ball Hooks: 3.3 mm tall ......20105
20 per pack
If a Spider Screw is to be inserted in an edentulous area where there is bone availability, references from a panoramic radiograph can be sufficient.

1. In areas close to delicate anatomical structures, such as interadicular spaces, a long cone radiograph is recommended before Spider Screw placement.

2. A surgical splint can be made with orthodontic wire, fixing it to the teeth with acrylic or thermoplastic resin. The orthodontic wire is inserted in the acrylic resin and is appropriately bent so that its tip corresponds to the point of insertion of the Spider Screw.

3. Use a periapical radiograph (by using the long-cone parallel technique) to verify the correct placement of the orthodontic wire.

4. The insertion site can be marked with a pressure point or methylene blue dot on the soft tissue. In mobile mucosa it is recommended to leave the surgical guide in place during the drilling phase and/or the screw insertion.

5. After site disinfection (chlorhexidine) insert the Spider Screw K1 or K2 using the manual pick-up screwdriver body + handle driver shaft. It is also possible to use the contra-angle pick-up driver at low speed. In order to avoid

Indications
Spider Screw Anchorage System can be utilized in many treatment options:

- All Malocclusions
- Distalization/Mesialization
- Intrusion/Extrusion
- Protraction/Retraction
- Anchorage Recovery
- Anchorage Reinforcement
- Maximum Anchorage Control
- Asymmetric Arch Treatments
- Uprighting Molars
- Pre-Prosthetic Orthodontic

Insertion Sites

**Maxillary**
- Zygomatic buttress
- Edentulous ridges
- Palate
- Tuberosity
- Interadicular areas

**Mandibular**
- Edentulous ridges
- Retromolar region
- Mandibular ramus
- Interadicular areas
- Symphyses
General Information
The placement of the Spider Screw is a procedure requiring specific knowledge of anatomy and technique. It is absolutely necessary that it is carried out by specifically trained doctors. It is important to know that improper patient selection and/or incorrect technique can cause placement failure and/or loss of supporting bone. An effective and complete screening of the patient must be performed and each case carefully evaluated. A very thorough examination is needed, as well as anatomical reference for the evaluation of bone quantity and quality using radiographic research (Long Cone Endoral Radiograph, Orthopantograph, Teleradiography, and Computerized Tomography).

Carefully read the instructions for use inside the package before Spider Screw placement. The Spider Screw is for single use only and should not be reused.

Use only the instruments mentioned in this brochure, making sure that all the instruments are sterilized and efficient. It is suggested to disinfect the insertion area and give local anesthesia as needed.

It is very important that the clinician attends a training course for a complete overview of all the possible applications, as this brochure shows only a few.

Post Application Patient Instructions
Application of chlorhexidine rinse 2 – 3 times per day for the first 7 days. Perform normal hygiene procedures. The patient should brush the screw normally as if it were a tooth.

Spider Screw Removal
To remove the Spider Screw, simply unscrew with the appropriate screw driver. It can usually be accomplished without anesthesia. During unscrewing it is recommended to use a technique of alternating between unscrewing and screwing. Healing takes place in a few days.

excessive torque stress during insertion (which could cause bone compression and consequent recession or cause the screw to break), it is recommended to use a technique of alternating between screwing and unscrewing to gradually ease the screw into position.

6. In the case of very compact bone use a spiral drill to make a pilot hole which makes screw insertion easy to perform.