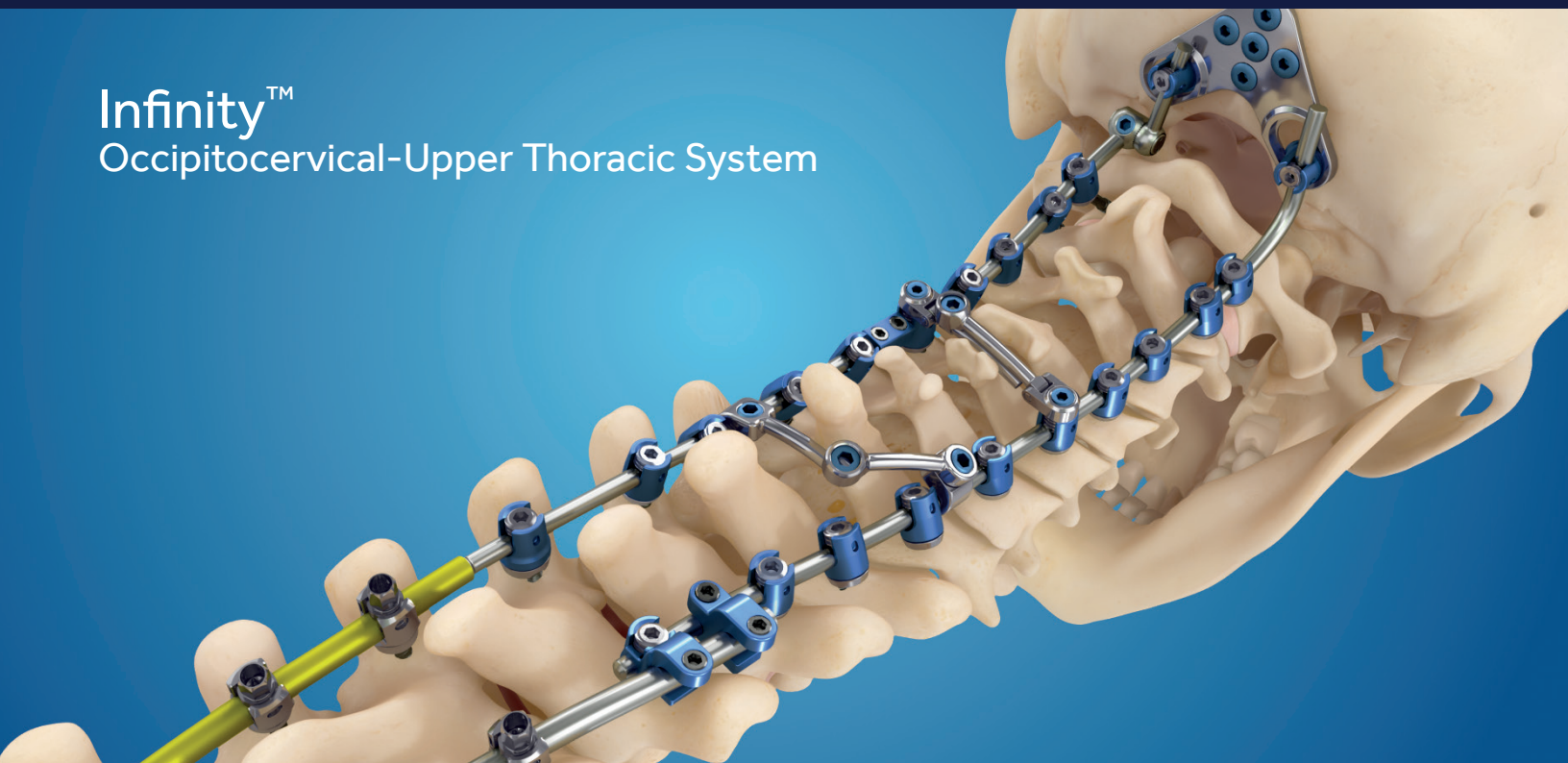


YOUR TRUSTED SOLUTION BECAUSE POSTERIOR CERVICAL SHOULD BE EASIER

Infinity™
Occipitocervical-Upper Thoracic System



Medtronic
Further, Together

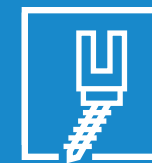
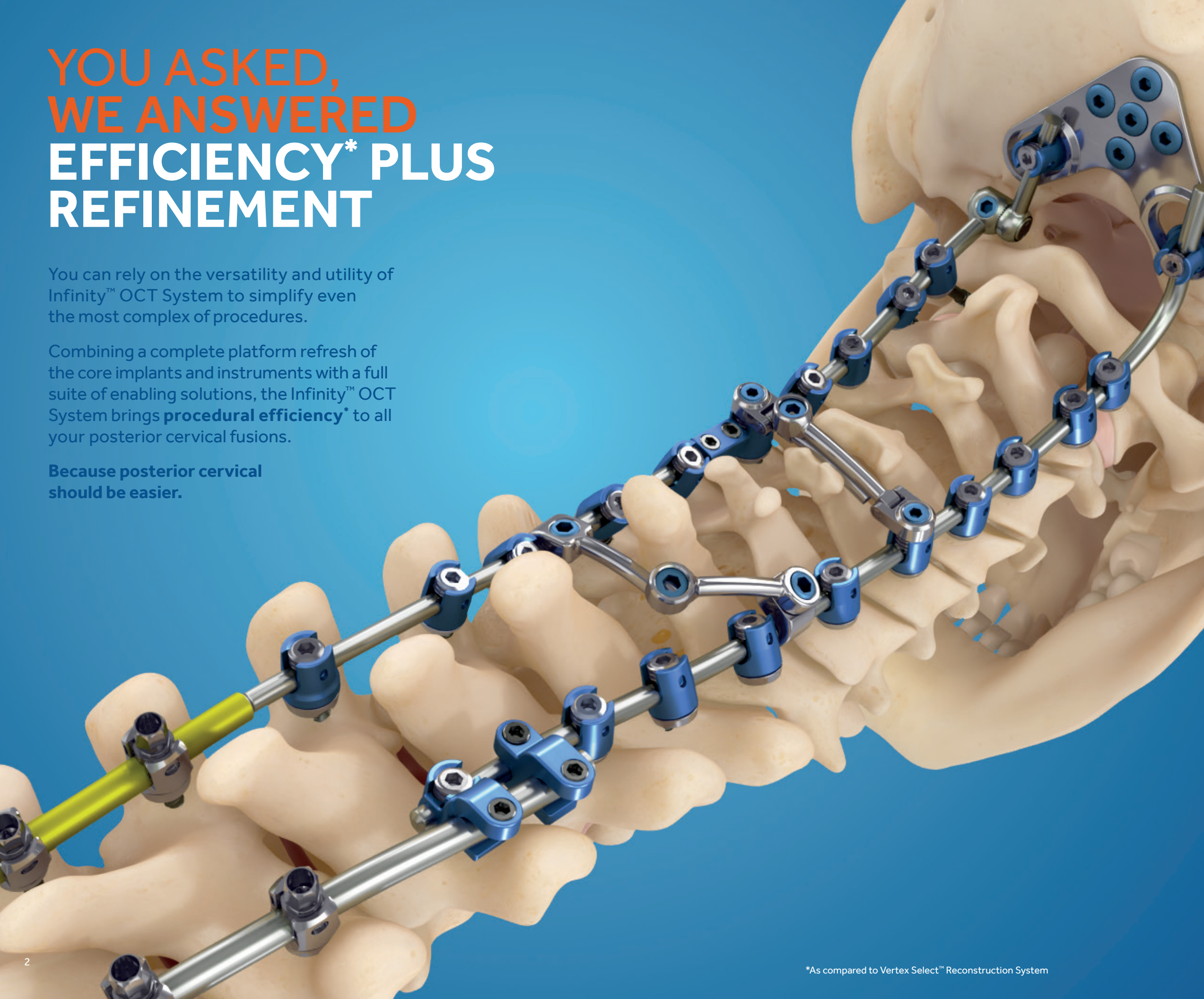


YOU ASKED, WE ANSWERED EFFICIENCY* PLUS REFINEMENT

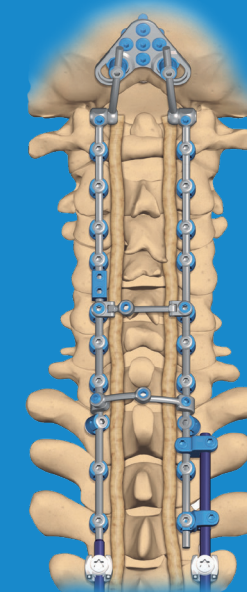
You can rely on the versatility and utility of Infinity™ OCT System to simplify even the most complex of procedures.

Combining a complete platform refresh of the core implants and instruments with a full suite of enabling solutions, the Infinity™ OCT System brings **procedural efficiency*** to all your posterior cervical fusions.

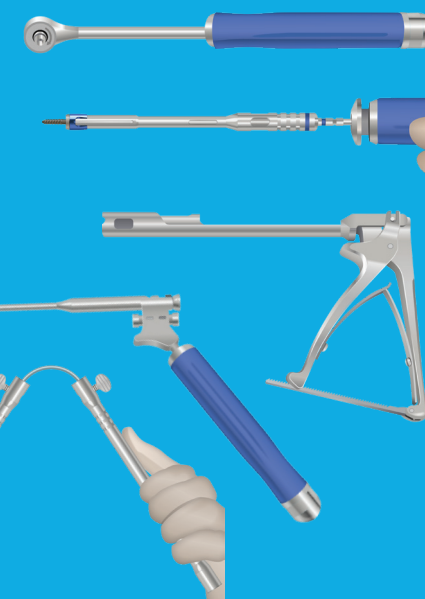
Because posterior cervical should be easier.



IMPLANTS
DESIGNED FOR
EASY CONSTRUCT
CONNECTIONS



THE RIGHT
TOOLS
FOR SMALL
SPACES



FULLY-
ENABLED
PROCEDURES

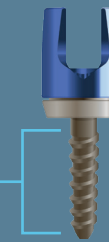




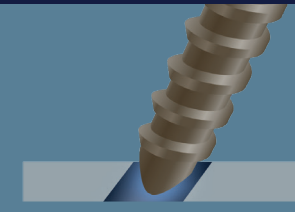
ENHANCED MULTI AXIAL SCREW AND SET SCREW THE FOUNDATION OF YOUR CONSTRUCT MADE EASIER*



24% more full threads for increased engagement in bone and stronger tactile feel*

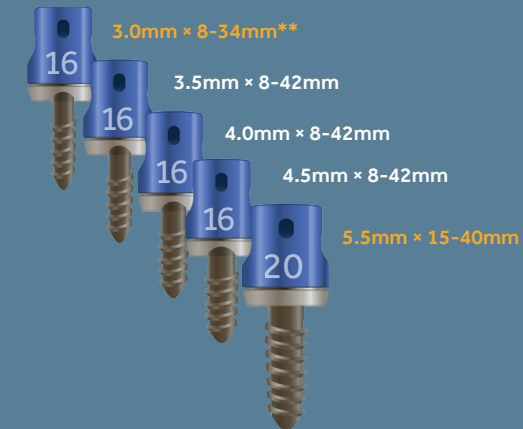


Ease of start with tapered tip that facilitates location of pilot hole and screw insertion



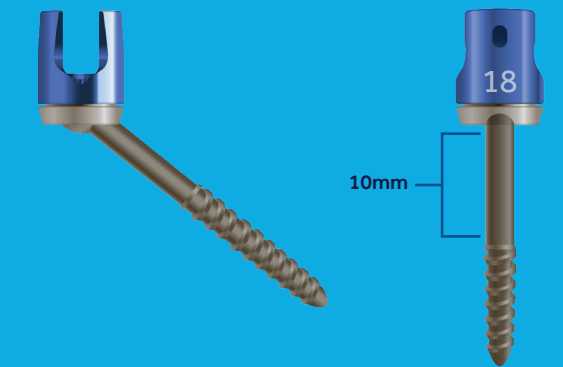
One screw for all rod diameters and materials for procedural and logistical efficiency*

Expanded size ranges to now include a 3.0mm X-Small Cervical Screw** and 5.5mm transition screw



Partially Threaded Multi Axial Screw

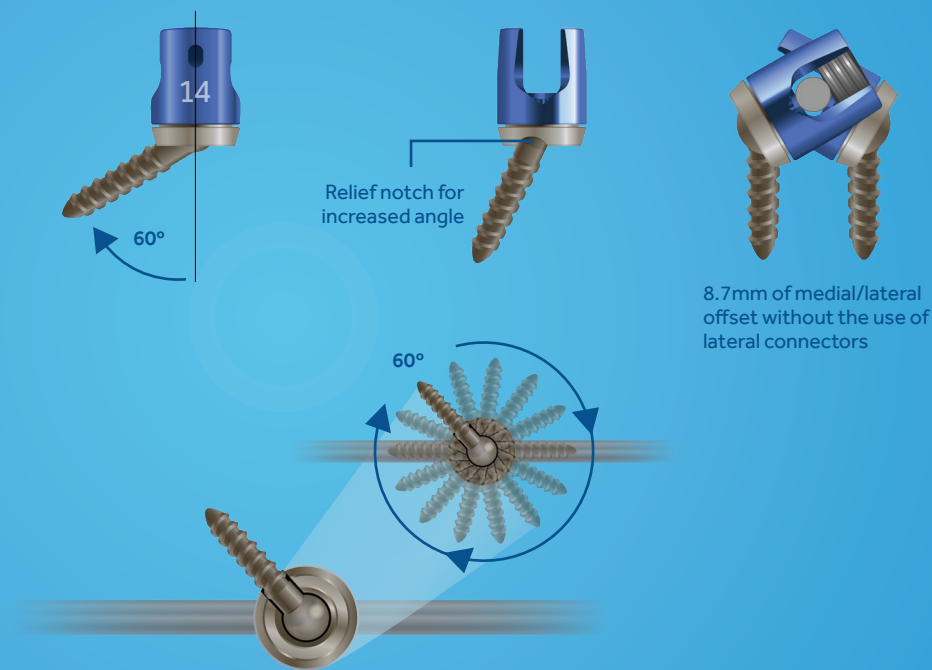
Variety of diameters to accommodate unique anatomy of C1 lateral mass
Uniform 10mm of unthreaded screw shank throughout all screw lengths



Multi Axial Screw

Construct Assembly made easy with **RodSync Technology**:

- Angulation where you need it with up to 60° of angulation in **ANY** direction
- Easy rod capture with friction fit saddles that maintain position during rod placement
- Minimized rod contouring

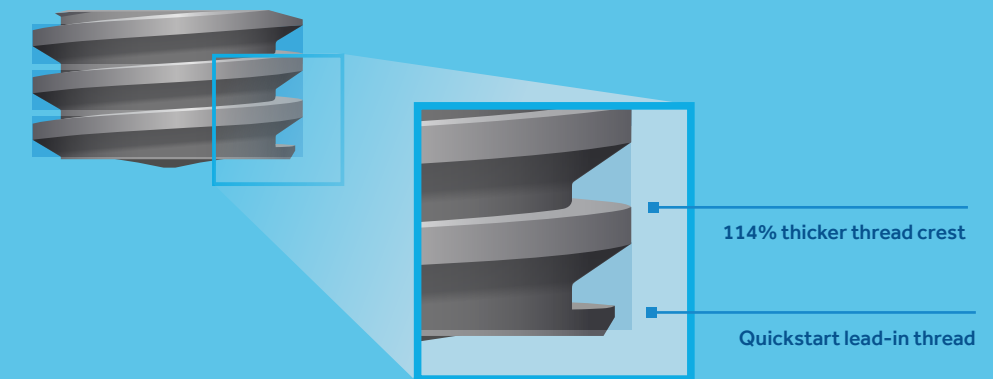


Set Screw

Designed to minimize cross threading

- Features a blunt start thread for ease of starting by reducing the chances of the set screw starting off-axis
- 114% thicker thread makes it more difficult to cross thread*

Increased interface with screwdrivers with 20% deeper hex engagement*



Did you Know?

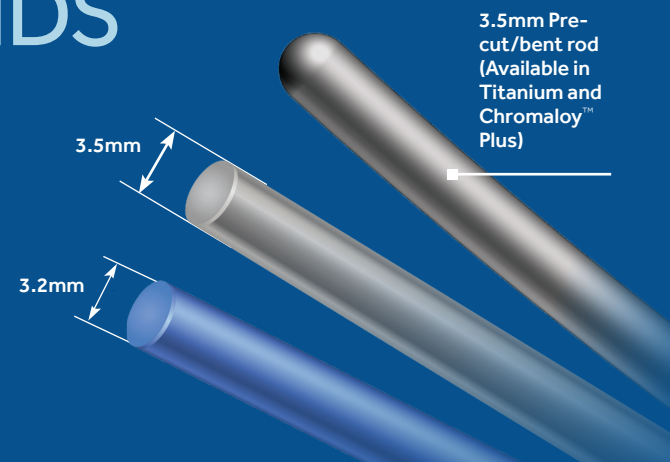
Quickstart threads are commonly seen on fire hose couplings to minimize cross threading in emergency situations when seconds matter.

*As compared to Vertex Select™ Reconstruction System

**The 3.0mm multi axial screw (MAS) requires the use of MAS Crosslink™ at each level in which the 3.0mm screw is intended to be used

FULL SPECTRUM OF ROD DIAMETERS AND MATERIALS ACCOMMODATING VARIOUS SPINAL APPLICATIONS AND CONSTRUCT DEMANDS

Surgeon choice of rod diameter and material to best match patient pathology and construct demands, all interchangeable with the same multi axial screw for procedural and logistical efficiency.*



Rod Options

| Rod Family Description | 3.2mm Titanium | 3.5mm Titanium | 3.5mm Chromaloy™ Plus | 3.5mm to 4.75mm, Titanium | 3.5mm to 5.5mm, Titanium | 3.5mm to 6.0mm, Titanium | 3.5mm to 4.75mm, Chromaloy™ Plus | 3.5mm to 5.5mm, Chromaloy™ Plus | 3.5mm to 6.0mm, Chromaloy™ Plus |
|--|----------------|----------------|-----------------------|---------------------------|--------------------------|--------------------------|----------------------------------|---------------------------------|---------------------------------|
| Straight Rods | ■ | ■ | ■ | | | | | | |
| Pre-Cut/Pre-Bent Rods | | ■ | ■ | | | | | | |
| Occipital Adjustable Rods (see OC section for details) | | ■ | ■ | | | | | | |
| Occipital Pre-Curved Rods (see OC section for details) | | ■ | ■ | | | | | | |
| Cervical Thoracic Tapered Rods (see Cervical Thoracic section for details) | | | | ■ | ■ | ■ | ■ | ■ | ■ |

MULTIPLE ROD MATERIALS TO MEET VARIOUS CONSTRUCT DEMANDS

Mechanical Comparisons of Various Rod Materials and Diameters*

Rod Stiffness

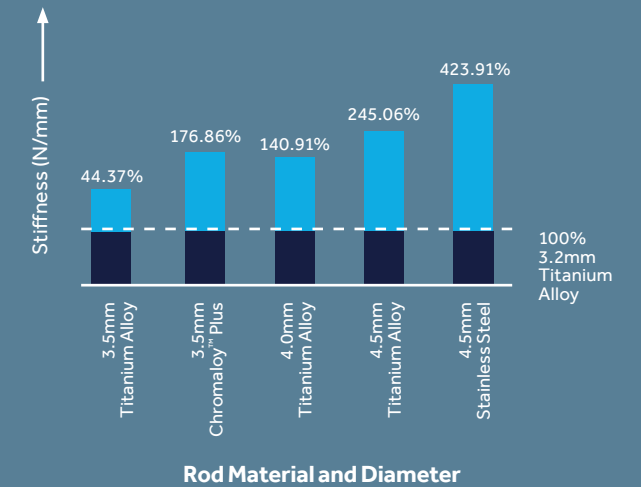
The resistance to deformation (bend) when a force is applied.

Relevance:

Stiffness maintains stability.

A rod with higher stiffness requires more force to bend.

A stiff rod limits the amplitude of range of motion and contributes to the stabilization of the instrumented segment.

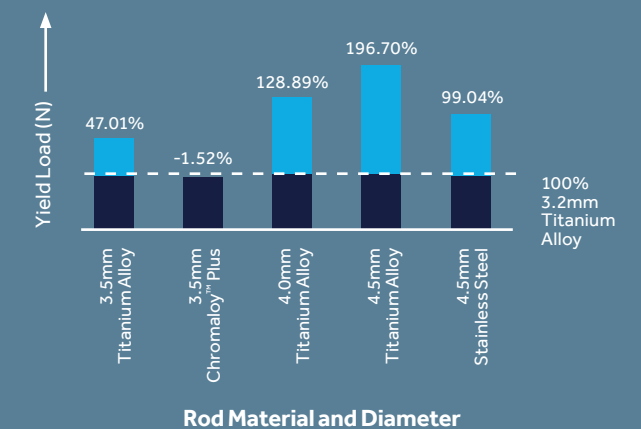


Yield Strength

The amount of force necessary to cause a permanent bend in the rod.

Relevance:

A rod with lower yield strength requires less force to permanently bend.



Notch Sensitivity

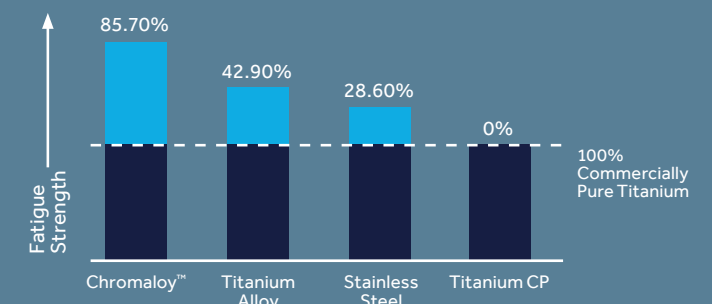
The tendency of notches to form in the rod.

Relevance:

Notches are indentions on the rod caused by bending, and can reduce fatigue strength of a rod and ultimately lead to rod breakage or construct failure.

Materials that are less notch sensitive tend to withstand higher compression fatigue loads.

Notch Sensitivity



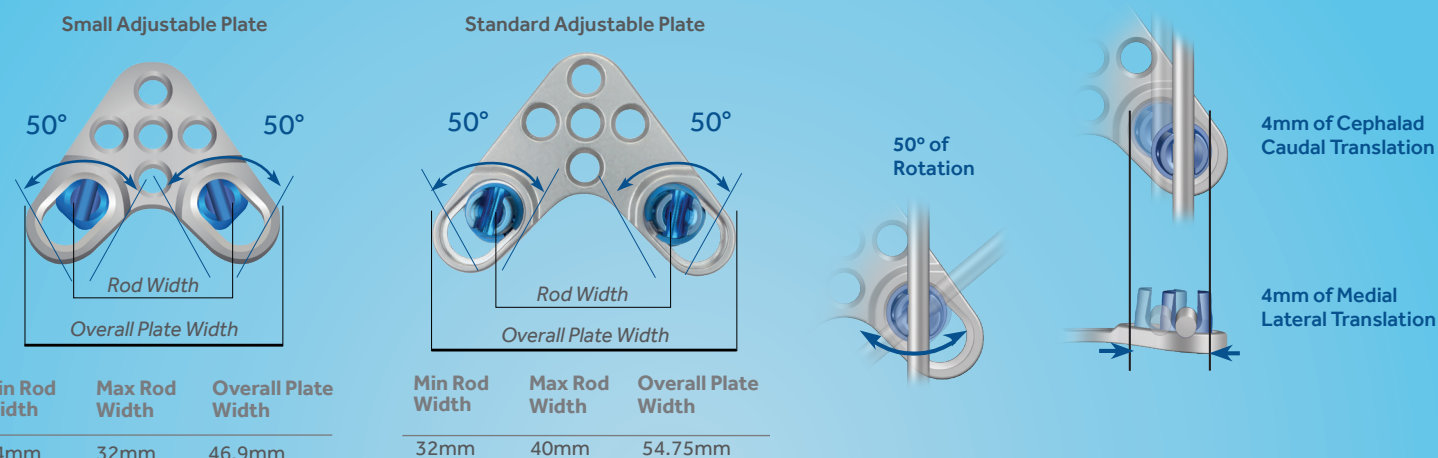
*As compared to Vertex Select™ Reconstruction System

* Based on internal testings. Data on file.



VERSATILITY AT THE JUNCTIONS SIMPLIFYING THE COMPLEX WITH SEAMLESS TRANSITIONS

Multiple OC Fixation Options

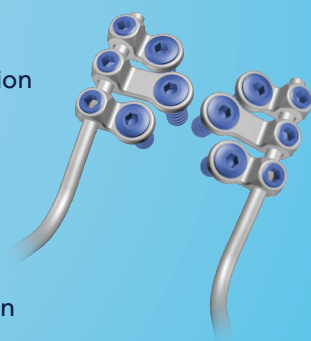


OC Adjustable Plate

- Three hole midline fixation to maximize bone purchase in the midline
- Rotating and translating saddles allow for flexibility in rod placement
- Space between saddles of the plate for bone grafting
- Pre-machined radius of curvature for proper fit onto the occipital anatomy
- Two different sizes

OC Screw Connectors

- Low-profile occipital fixation option
- Allows for six points of occipital midline fixation
- Flexibility in screw placement on the occiput
- Dorsal height adjustment capabilities accommodate uneven bone surfaces



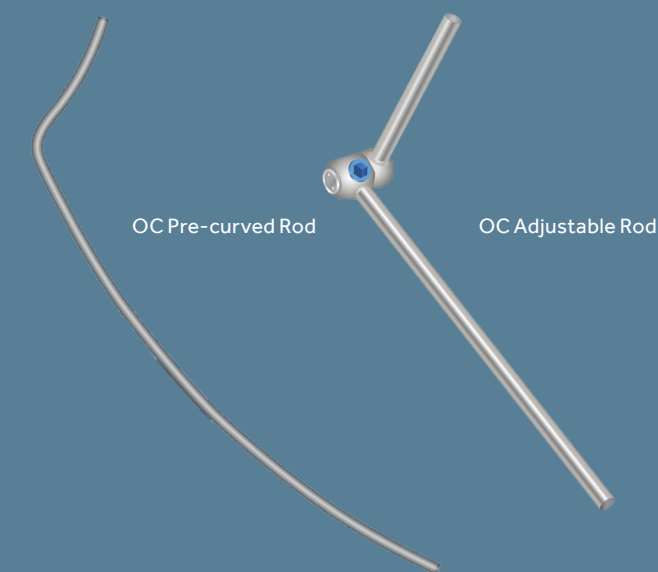
Different OC Rod Options to Best Fit Anatomy at the OC Junction

OC Adjustable Rods

- Hinge portion adjustability to accommodate various OCJ anatomical angles
- Angulation can be adjusted after it has been placed in the construct in order to achieve occipitocervical alignment goals
- Reduced profile of hinge for improved fit*

OC Pre-Curved Rods

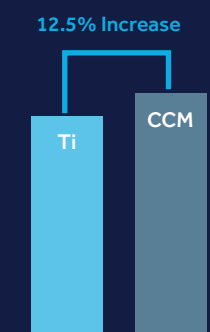
- Pre-contoured to facilitate matching anatomy of the OCJ
- Low profile option for difficult anatomy



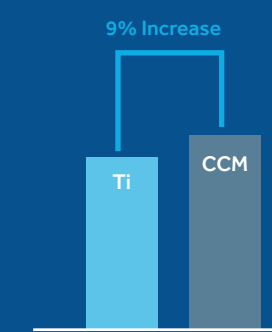
Available in Titanium and Chromaloy™ Plus

Shown to withstand higher compression and torsion loads as compared to Titanium, the metal properties and mechanical performance of Chromaloy™ Plus make this rod material a viable and preferred choice to provide increased construct strength and meet the high construct demands of OCJ procedures.

COMPRESSION FATIGUE CONSTRUCT STRENGTH



TORSION FATIGUE CONSTRUCT STRENGTH



Chromaloy™ Plus OC Adjustable Rods outperformed Titanium Adjustable Rods in both compression and torsion fatigue**

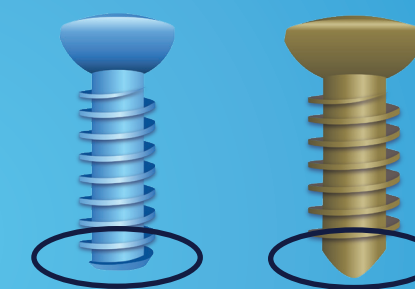
Multiple OC Bone Screw Options

Standard Tip Design

- 4.5mm x 6-14mm
- 5.0mm x 6-14mm
- Increased Thread Volume

Tapered Tip Design

- 4.5mm x 6-14mm
- 5.0mm x 6-14mm



*As compared to Vertex Select™ Reconstruction System

**Based on internal test data using Titanium and Chromaloy™ Plus OC Adjustable Rods

Cervical Thoracic Transition Implants

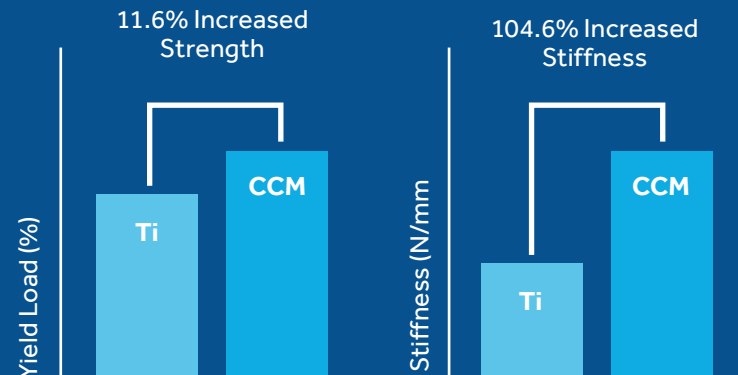
Wide variety of transition options for flexibility in construct planning. Connecting 3.2 and 3.5mm rods to 4.75mm, 5.5mm, and newly offered 6.0mm / 6.35mm***

Cervical Thoracic Transition Rods

Transition Rods in Titanium and Chromaloy™ Plus



Shown to have greater stiffness & strength when compared to Titanium, the metal properties and mechanical performance data of Chromaloy™ Plus make this rod material a viable and preferred choice to provide increased construct strength and meet the high construct demands of CTJ procedures.

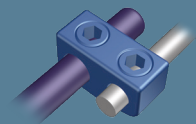


The Infinity™ Chromaloy™ Plus tapered rods are **11.6% stronger** and **104.6% stiffer** than the Infinity™ Titanium tapered rods in a four-point static bend test.**

Dominos

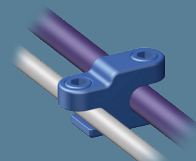
Offset Dominos

Allows for medial/lateral offsets at transition point



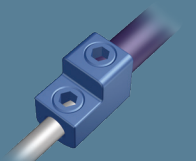
Open to Open Offset Dominos

- Enables revision/extension of a construct
- Enables dual rod constructs



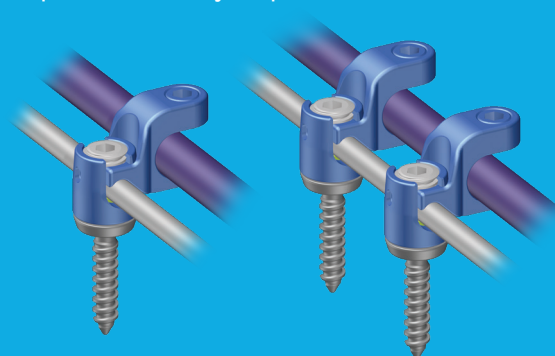
Axial Dominos

- Allows for axial alignment of rods at transition point
- Stepped design feature to accommodate dorsal height differences between rods



MAS Extension Connectors

- Enables revision/extension of a construct
- Enables dual rod constructs
- Zero "Run on the Rod" Transition Point
- Simplified assembly steps*



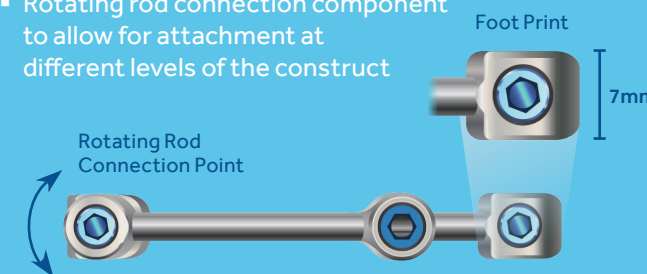
The MAS extension connectors are intended to be used with 3.5mm and larger diameter multi axial screws. The MAS extension connectors are not intended to be used with 3.0mm screws.

OPTIMIZED CONNECTING COMPONENTS VERSATILITY WITH SIMPLIFIED ASSEMBLY

Multiple Crosslink Designs

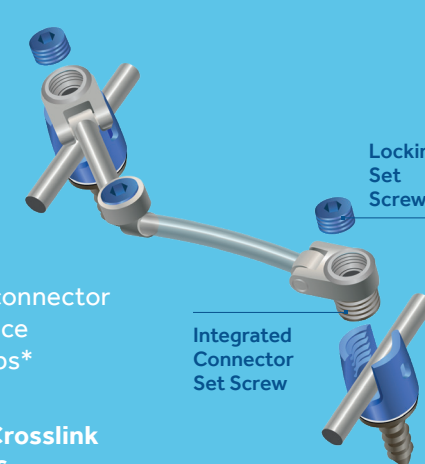
Crosslink® Connector, Rod-to-Rod Design

- Rotating rod connection component to allow for attachment at different levels of the construct



Crosslink® Connector, MAS-to-MAS Design

- Connects to the top of a multi axial screw head in cases where adjacent screw heads are in close proximity to one another
- With integrated connector set screw to reduce implantation steps*

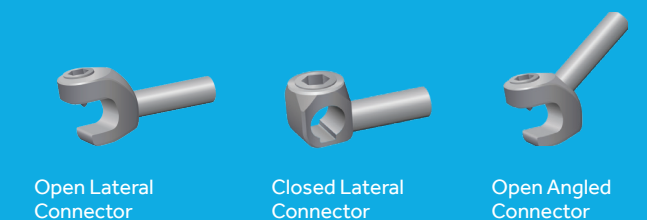


Common to both Crosslink Connector Designs

- Adjustable design and various sizes to accommodate varying distances between rods
- Lower profile at the apex of the crosslink arch*
- Internal center set screw and ability to use the MAS Counter Torque improves screwdriver interface during final tightening of the central lock

Lateral Offset Connectors

- Dorsal height adjustment capabilities to accommodate screw height differences
- Open and closed lateral connectors available in 10mm, 13mm, and 19mm lengths
- The lateral offset connectors are intended to be used with 3.5mm and larger diameter multi axial screws. The lateral offset connectors are not intended to be used with 3.0mm screws



Laminar Hooks

- Available in 4.5mm and 6.0mm openings
- Available in standard and offset designs



* As compared to Vertex Select™ Reconstruction System

** Based on internal four-point bending test data using 3.5mm to 4.75mm Titanium and Chromaloy™ Plus Tapered Rods – ASTM F2193

***Open to Open Offset Domino and MAS Extension Connector

*As compared to Vertex Select™ Reconstruction System

THE RIGHT TOOLS FOR SMALL SPACES

VISIBILITY, FUNCTIONALITY, EXPERIENCE



SEE MORE IN A SMALL SPACE



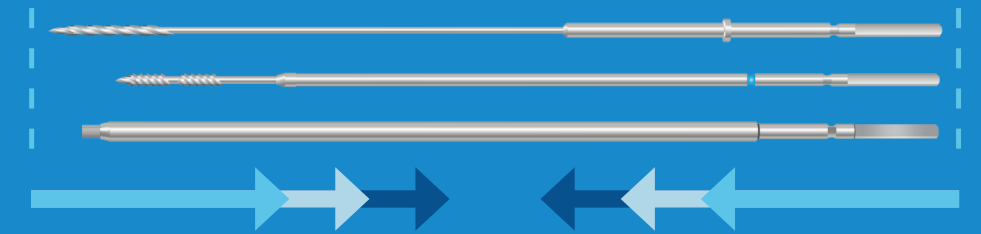
DO MORE IN A SMALL SPACE



SOLVE FOR MORE IN A SMALL SPACE

SEE MORE IN A SMALL SPACE

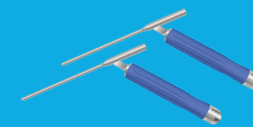
Reduced length and profile for improved line of sight and closer position to anatomy



DO MORE IN A SMALL SPACE

Screw Hole Prep

Fixed drill guides for the most common size screws

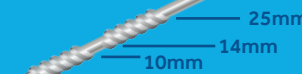


Optimized Adjustable Drill Guide

- Reduced length and barrel size*
- Enhanced locking mechanism*
- Easily identifiable depth markings



Taps with easily identifiable depth markings



Probes in both straight and curved geometries to optimize fit in the pedicles



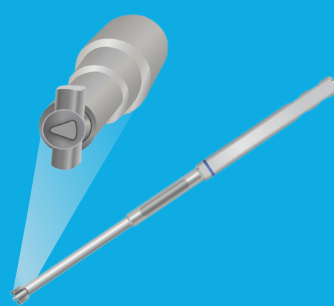
Screw Insertion / Alignment

Screwdrivers designed for improved engagement and release of MAS

- New Self-Holding Sleeve Driver
- Self-Holding and Threaded Screwdrivers with optimized interfaces
- 20% deeper hex engagement*



Increased Angle Positioner to direct the additional angulation of the MAS where it's needed

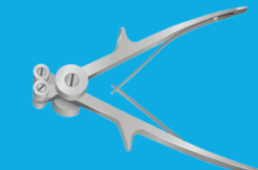


Rod Manipulation

Rod Reducer with self-aligning mating features and open barrel design to promote ease of alignment and engagement with MAS



Rod Bender with adjustments to bending wheels to allow for short segment rod bending



Rod Cutter for in situ cutting



Final Tightening

Optimized Final Tightening Experience

Torque Limiting Screwdrivers

- Increased engagement with set screw*
- Length reduction facilitates alignment with set screw

Counter Torques

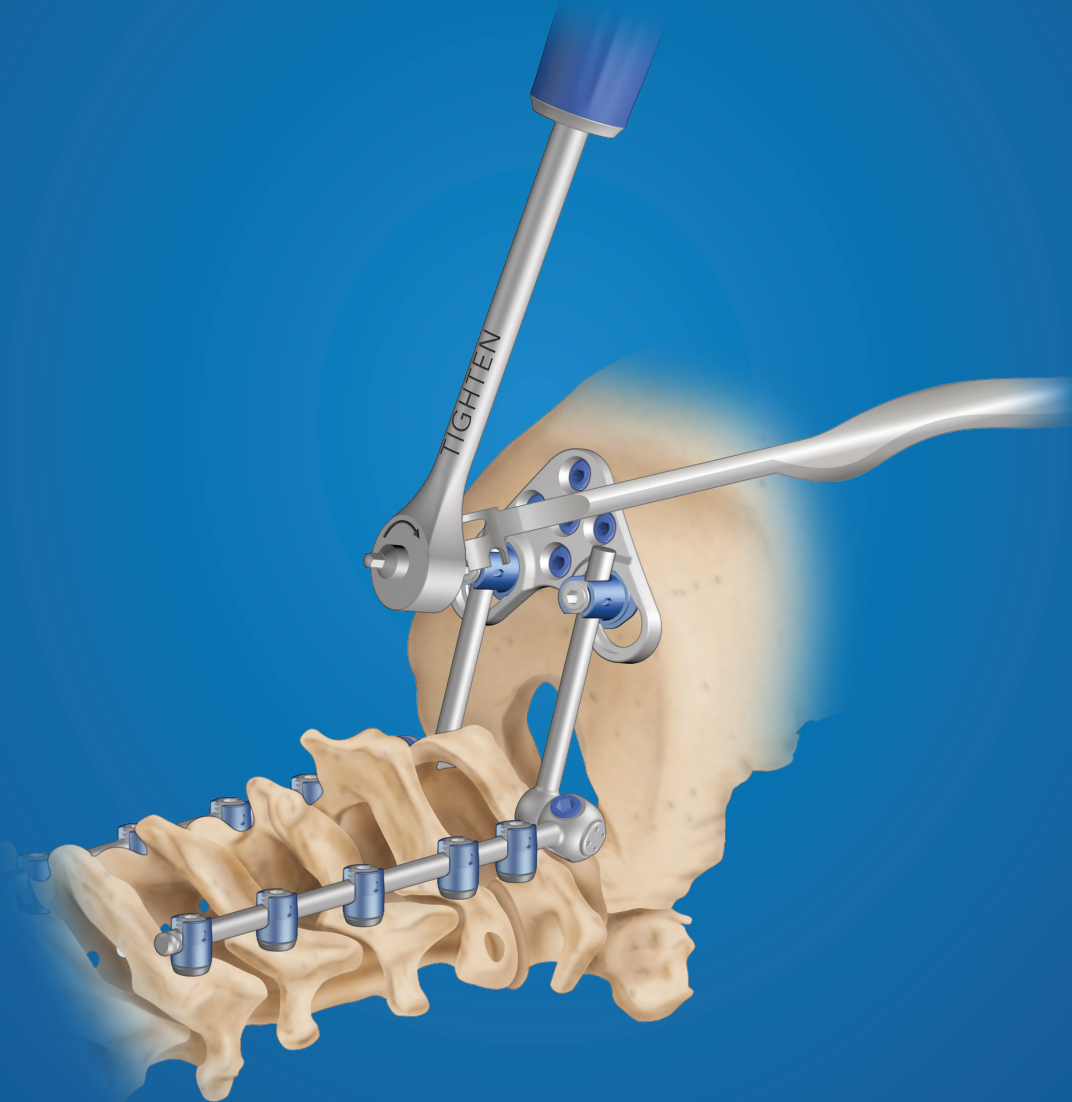
- Tighter "fit" on MAS for more control*



*As compared to Vertex Select™ Reconstruction System

SOLVE MORE IN A SMALL SPACE

More tools to address the challenging anatomy of the Occipitocervical Junction*



New OC Drill Tap Guides and Screw Guide



Screw guide end for additional control during OC bone screw insertion



New OC Torque Limiting Drivers:

- Right-angled Ratchet Torque Driver for efficiency during final tightening
- Flexible and Straight Torque Drivers



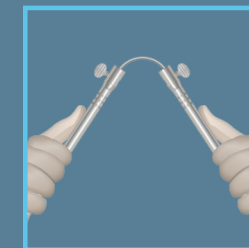
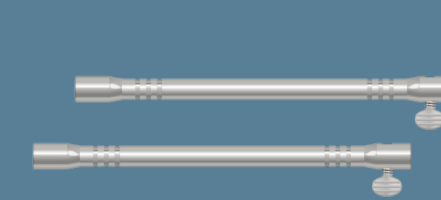
New OC Rod Pusher / Counter Torques:

- 45 degree and 90 degree angle positions
- Flexibility in placement on any of the OC implants



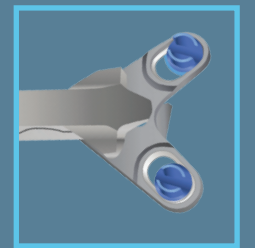
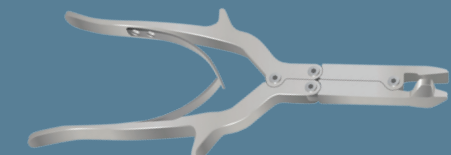
OC Tube Benders:

Provides an additional rod bending option for the increased rod curvature needed specifically at the occipitocervical junction



New OC Plate Bender:

Create bends in the OC plate for an anatomic fit against the occiput



*As compared to Vertex Select™ Reconstruction System

BRINGING FULLY ENABLED SOLUTIONS TO YOUR OR PRECISION, CONFIDENCE, INTEGRATION

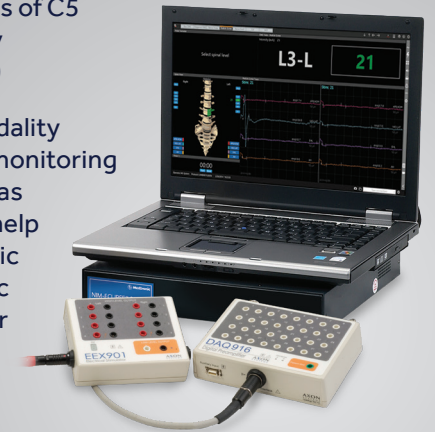
Powerase™ Compatible

- Procedural efficiency through system integration
- Navigated Drill Bit, Taps, and Driver integrated with the POWEREASE™ System



Neuromonitoring Integration

- Early warning/detection to help avoid neural injury/compromise
- Aids in the efforts to reduce instances of C5 nerve root palsy (brachial plexus)
- Using multi-modality intraoperative monitoring (MEPs/SSEPs) has been shown to help reduce iatrogenic injury to somatic sensory & motor systems



SynergyPCFSM with Navigated Infinity™ OCT System

Medtronic's Surgical Synergy spinal workflow streamlines your procedures by eliminating certain intraoperative steps.

- Reduction in radiation exposure to surgeon and OR staff.
- Improved accuracy of instrument and implant placement.

Refined Set of Navigated Instruments*

- Designed for the posterior cervical-upper thoracic working space
- Reduced length and profile for improved line of sight and closer position to anatomy with all guides, drills, taps, and drivers*
- Longer drilling depths*
- Drill Guide with NavLock™ Positioner for efficiency in holding the NavLock™ Tracker



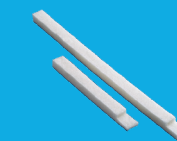
Biologics Solutions that Empower

DEGENERATIVE SHORT CONSTRUCT

Surgeons that desire
CONTAINMENT



Mastergraft™ Strip



Grafton™ Strip

Surgeons that desire
PACKABILITY



Mastergraft™ Putty



Grafton™ DBM Putty

Mastergraft™ Strip and Mastergraft™ Putty

- Osteoconductive
- Cell carrier

DEFORMITY LONG CONSTRUCT

Surgeons that desire
CONTAINMENT



Mastergraft™ Strip

Surgeons that desire
PACKABILITY



Grafton™ DBM Putty

Grafton™ DBM Putty

- Osteoconductive fibers
- Performance driven by high osteoinductivity

*As compared to Vertex Select™ Reconstruction System

Grafton™ DBM (Demineralized Bone Matrix) products are human tissue products intended for human application and are only available in a limited number of EU countries

Medtronic

Medtronic

Medtronic International Trading Sarl
Route du Molliau 31
Case postale
1131 Tolochenaz
Switzerland

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions and potential adverse events.

For further information, contact your local Medtronic representative and/or consult the Medtronic website at **www.medtronic.eu**

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