Comprehensive, Well-Designed Instrument Options To Perform Complex Spinal Deformity

Since the introduction of the Polaris™ Deformity System, we have carefully engineered and tested instruments to address the full array of spinal deformity procedures. Today, the Polaris™ Deformity System instrument set offers proven designs and options that suit your clinical preferences.

To learn more about this product,
contact your local Biomet Sales Representative today.

BIOMET®
SPINE
One Surgeon. One Patient.®

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Polaris™ Deformity System

Helical Flange® Technology
- Reliability

Construct Options
- Wide Range of Materials

Trivium™ Derotation System
- Simple Assembly
- Controlled Correction

Comprehensive Deformity System
- Intuitive Instruments

Reliability

The Helical Flange® locking mechanism utilized in Biomet Spine screws will allow you to perform spine surgery efficiently and confidently.

Helical Flange® Technology

Helical Flange® Locking Technology incorporates an innovative design for the plug and screw seat interface. The lip of the plug thread faces up while the lip of the seat thread faces down; allowing the two parts to seamlessly mate and securely lock.

Minimizes Cross Threading

Upon initial contact, the upward and downward oriented thread lips easily align and guide the threads together, thus minimizing cross threading.

Minimized Seat Splay

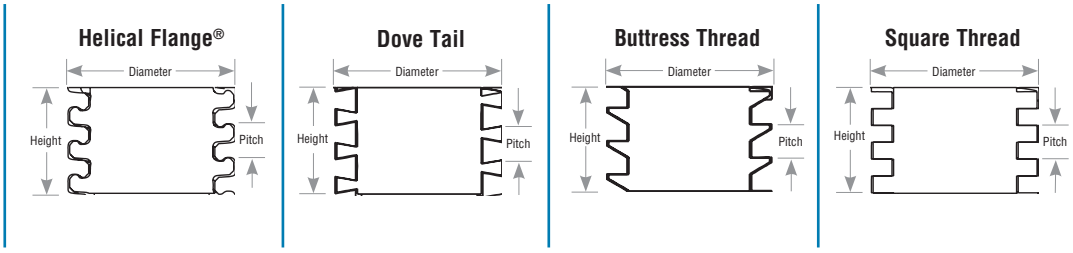
Final torquing directs the forces across the upward and downward oriented thread lips in an inward fashion to significantly minimize seat splay.

More Than 100,000 Times

Since 2004, spine surgeons have implanted more than 100,000 Biomet Spine screws with Helical Flange® Technology.

Comparatively Superior Locking

Helical Flange® Technology demonstrates superior design characteristics when compared to other locking mechanisms.**



Feature	Helical Flange®	Dovetail	Buttress	Square
Anti-Splay* (Overlap)	1	2	3	3
Anti-Cross* Threading	1	1	3	2

Based on a scale of 1 to 3 (1 being optimum).

*Anti-Splay and Anti-Cross Threading data is based on an engineering analysis performed by Biomet Spine. The results of the flange design analysis is presented in the accompanied chart. This chart does not necessarily depict actual products.

**Data on file.

A Proven Secure Locking Mechanism That Minimizes Cross Threading and Seat Splay

This image illustrates a fully engaged Helical Flange® plug and seat. The contact between the upward facing flange of the plug and the downward facing flange of the seat minimizes cross threading and seat splay, while enhancing the strength of the locking mechanism.

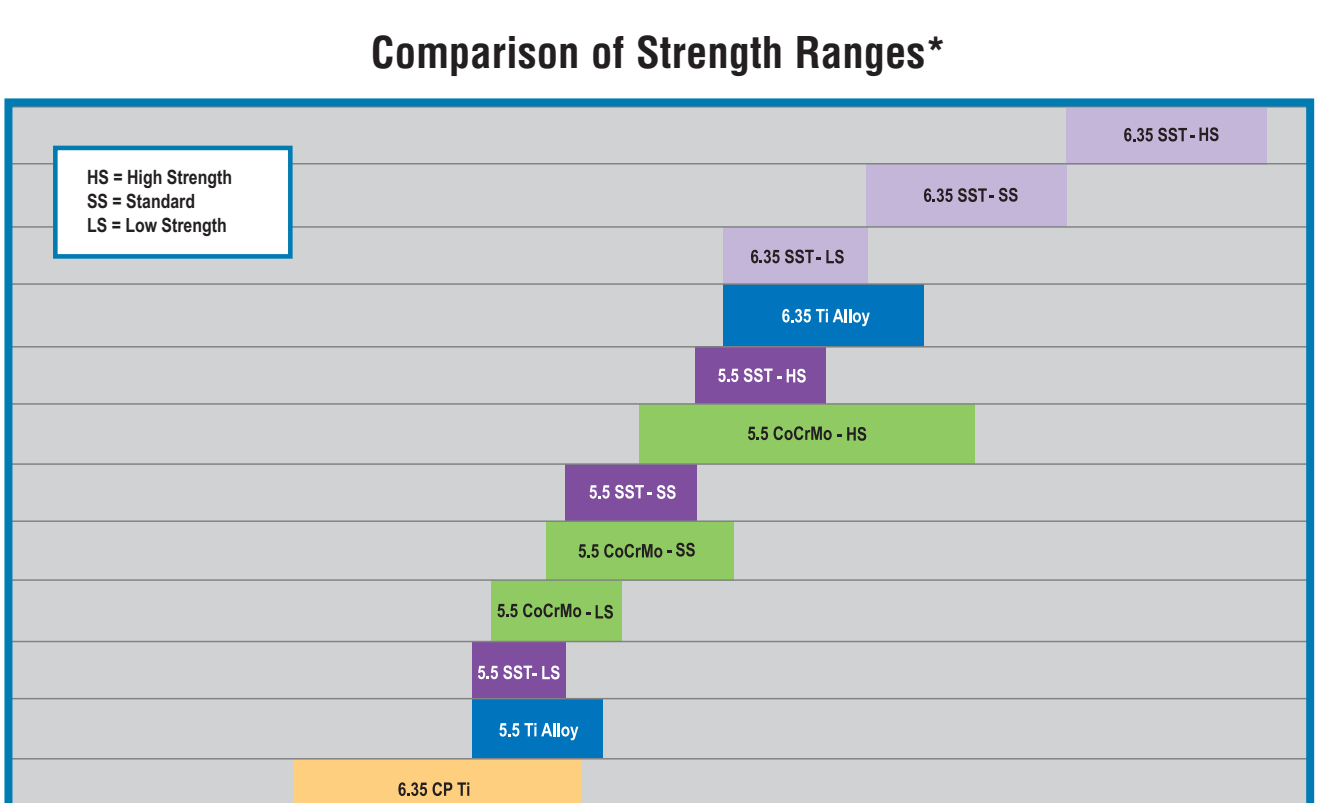
Wide Range of Material Options

Every surgeon develops individual preferences for construct materials and rod diameters. Some surgeons may match certain indications to specific materials. Whichever constructs you prefer, with 13 rod options, the Biomet Spine portfolio has options for you.

Strength Options to Address Deformity

Our portfolio covers an array of strengths across several rod materials.

Comparison of Strength Ranges*



The data in this chart represents the tolerance band for the strength properties of each rod in our portfolio. This chart demonstrates some of the compelling attributes of high strength CoCrMo. For example, a 5.5mm diameter high strength CoCrMo rod has strength characteristics similar to 6.35 stainless steel and 6.35 titanium alloy.

*Data on file.

The Most Cobalt Chrome 5.5mm Rod Strengths Available

Cobalt Chrome Alloy Rods are available in 5.5mm diameter, and three tensile strengths.

Impressive Properties of Cobalt Chrome Alloy Rods

Cobalt Chrome Alloy offers some very useful attributes. It is a wear resistant and corrosion resistant high strength material with stiffness and strength similar to stainless steel.

Imaging Benefits of Cobalt Chrome Alloy and Titanium

Cobalt Chrome Alloy Rods in combination with Polaris™ titanium screws allow a view of the instrumented levels with significantly less scatter than would occur with stainless steel implants. This benefit permits better reading of the surgical site images throughout a patient's life.

Simple, Controlled Derotation

If derotation of scoliosis is important to you, you can now achieve it simply and precisely.

Trivium™ Derotation System

The Trivium™ Derotation System incorporates an innovative posterior three-dimensional spinal deformity correction technique that utilizes the stability of pedicle screw fixation.

Simple, Solid Assembly

The Trivium™ Derotation System assembly is simple. The final construct is efficient and secure. The primary system assembly steps are as follows:

Assembly

Step 1: Connect derotation handles to screw heads.

Step 2: Slide linkage rods through handles.

Step 3: Place comb across spine to unite the left and right screw cluster.

Controlled Derotation That Protects the Integrity of Bone Purchase

Once assembled, you can derotate the spine enbloc. The derotation handle clusters distribute the force of derotation across several levels of screws, thereby protecting the screw thread to bone interface. The primary derotation technique is as follows:

Derotation

Step 1: Slowly derotate the spine by manipulating the clusters.

Step 2: The spine is now corrected.

Horizontalizer

Step 3: The Horizontalizer provides surgeons the ability to fine-tune the alignment of each level of the construct. This optimizes the ability to balance the patient's shoulder and pelvis.

3-Dimensional scoliosis correction is now complete.