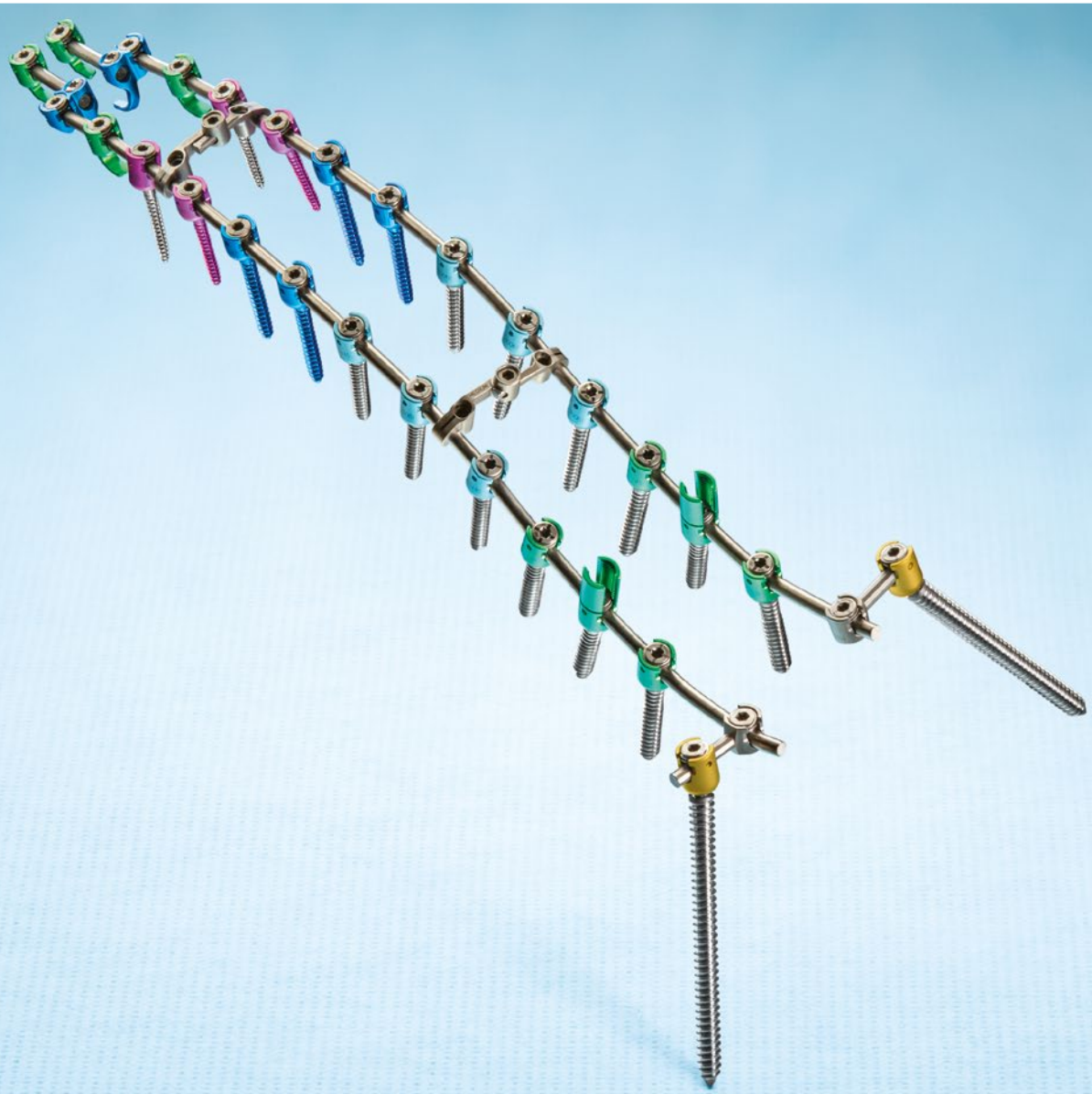
Instinct® Java®
Spinal Fixation System

zimmer

Surgical Technique



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Instinct Java.

A distinctive spinal fixation platform.

Zimmer Spine's *Instinct Java* System is a pedicle screw system designed to provide you with a versatile solution to treat multiple pathologies in a proven design. The screw fixation utilizes a combination of asymmetrical and dual threads designed to improve cortical and cancellous bone fixation and to improve resistance to screw pull-out. The raised dimples and recesses of the screw heads lock the screws securely to the instrumentation and provide numerous options for reduction. In addition, the optimized blocker is designed to limit cross-threading and head splay. The sound design of the *Instinct Java* System provides you with the tools you need to treat your patients effectively.

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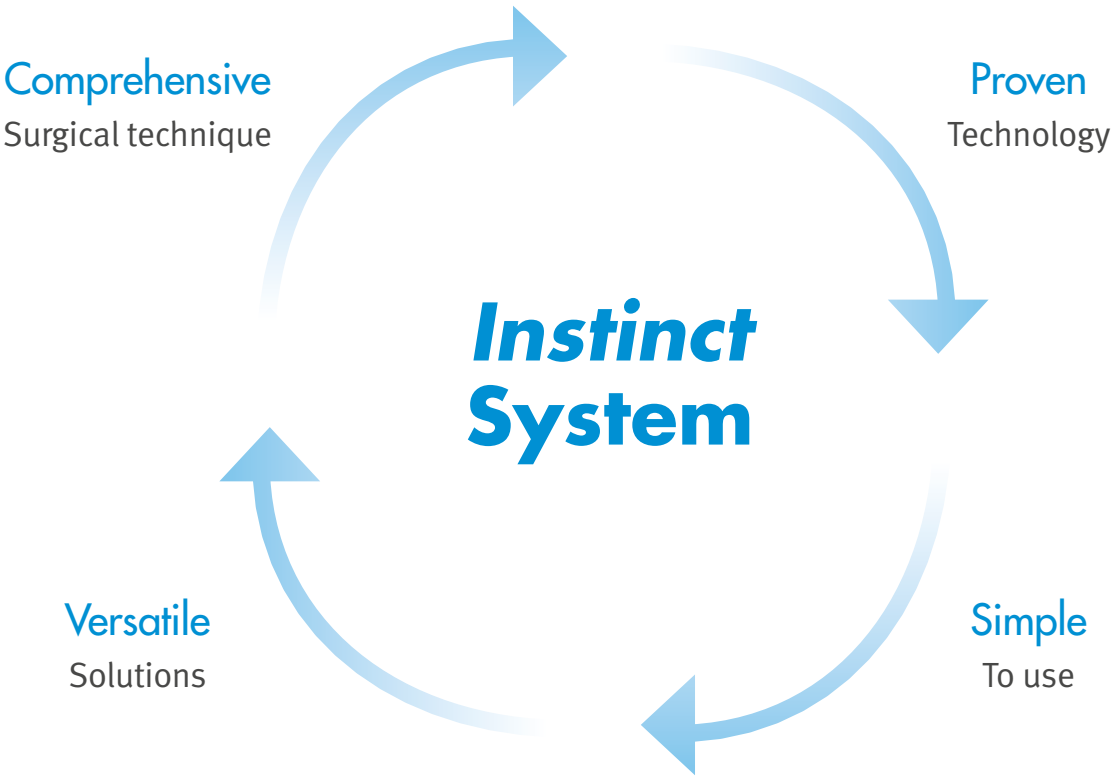
The *Instinct Java* System was designed to treat a wide variety of spinal pathologies with intuitive solutions. We focused our design activities to deliver a simple, easy-to-use system that offers versatile options to surgeons.

Zimmer Spine is committed to developing a system that offers low profile implants with high biomechanical strength. The *Instinct Java* System is based on optimized technologies that minimize the overall implant volume without compromising performance.



- Reduced head diameter offers more room for graft with a lower construct profile.
- Round shape preserves adjacent facets.
- Four recesses enable a powerful connection with the Persuader.
- Raised dimples facilitate a better connection to the Rod Fork.
- Optimized threads are designed to prevent head splay and cross threading.
- Cortical and cancellous advanced threads are designed to maximize pull-out resistance.
- Self-tapping tip saves surgical time.
- Torx interface on blocker is designed to improve resistance to stripping.

Indications/Contraindications

Description

The *Instinct Java* Spinal Fixation System is installed in order to stabilize one or more vertebral segments from the thoracic spine to the sacrum during the development of bone tissue, using a top loading technique.

The *Instinct Java* Fixation System is comprised of various screws, hooks, autostable hooks, offset, axial and side-by-side connectors and rods, and was designed to temporarily stabilize spinal segments by means of an osteosynthesis. This system is supplied only in non-sterile form.

For implanting the system, please refer to the brochures on the device, entitled "*Instinct Java:* SURGICAL TECHNIQUE" and "*Instinct Java*: HOOKS SURGICAL TECHNIQUE".

Authorized combinations of medical devices:

The *Instinct Java* Spinal Fixation System should be used in combination with the dedicated instruments, container base, tray and case lid, in accordance with the information found in the associated brochure "*Instinct Java*: SURGICAL TECHNIQUE".

The following devices may be used in combination with it:

- *Java*® TL Transverse Connectors, Ref. Nos. SN2023-0-52055 / SN2023-0-62055 / SN2023-0-72055 / SN2023-0-82055*
- *Sequoia*® Adjustable *Speedlink II*™ Connectors Ref. Nos. 3308-35 / 3309-40 / 3310-50

The following devices may also be used in combination with the *Instinct Java* System, EXCLUDING the CoCr rods.

- Universal Clamp™ 5.5mm Ti Implants
- Nex-Link® Band and Inline Rod Connector - 4.0mm x 5.5mm, Ref. Nos. 725-4055 / 726-4055

The *Instinct Java* axial and side-by-side connectors may be used in combination with *Nex-Link* 4.0mm Ti rods Ref. Nos. 724-120 / 724-240 / 724-360 and Optima™ rods Ø 6.0mm Ref. Nos. SG16XX.

Note: *Instinct Java* Pedicle Screws may be used with *Zimmer*® *DTO*® 5.5 System, according to the instructions for use and the surgical technique of *Zimmer DTO 5.5* System. This configuration is only available outside the US. *Zimmer DTO* 5.5 Implant is not cleared for the US market.

Indications

The *Instinct Java* Spinal Fixation System is designed for spinal fixation procedures in skeletally mature patients performed through a posterior approach.

The *Instinct Java* Spinal Fixation System is indicated for the temporary realignment and stabilization of one or more intervertebral segments from the thoracic spine to the sacrum until bony fusion is obtained.

The *Instinct Java* Spinal Fixation System is indicated to achieve bony fusion via osteosynthesis at thoracic, lumbar and/or lumbosacral levels of the spine in documented cases of degenerative disc disease (defined as discogenic back pain with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, fracture, spinal stenosis, kyphotic or lordotic spinal deformities, scoliosis, tumor and pseudoarthrosis, or for revision of a failed previous fusion.

**Note: The* Java *Spinal Fixation System is not cleared for the US market.*

Contraindications

a. A disorder affecting the normal process of bone remodelling, including but not limited to severe osteoporosis involving the spine, excessive bone reabsorption, osteopenia, a primary or metastatic tumor involving the spine, an active infection at the planned point of intervention or certain metabolic disorders of osteogenesis.

b. Insufficient bone quantity or quality that might compromise rigid fixation of the device.

c. A history of infection.

d. Excessive local inflammation.

e. An open wound.

f. A neuromuscular disorder causing an abnormally high load on the device during the fusion period.

g. Obesity contributes to a spinal overload that may be excessive enough to cause failure in the fixation of the device or failure of the device itself.

h. Inadequate tissue covering of the surgical field.

i. Pregnancy.

j. A condition of senility, mental illness or drug addiction. Due to these conditions, the patient may be particularly unlikely to obey certain limits and recommendations indicated for the post-operative period, which might lead to failure or other complications.

k. Hypersensitivity or allergy to one or more of the fusion components. If hypersensitivity or allergy to one or more of the materials is suspected, suitable tests must be done prior to the selection or implantation of the device.

l. The presence of another medical or surgical condition that may hinder the potential benefits of the spinal implant surgery, such as the presence of a tumor, a congenital defect, leukocytosis or a pronounced left shift in the ratio of immature to mature neutrophils.

m. Iliac screws and offset connectors should not be used in cases of tumor or trauma of the sacrum, when additional screw fixation in S1 is not possible.

Instinct Java Implants

Polyaxial Screw
046W0AN2XXXX

Monoaxial Screw
046W0AN3XXXX

Polyaxial Reduction Screw
046W0ANXXXX

Monoaxial Reduction Screw
046W0AN6XXXX

Polyaxial Iliac Screw
046W0AN2XXXX

Open Offset Lateral Connector
(15, 25, 50mm; left- or right-angulated 50mm)
046W0AN75XXX

Closed Offset Lateral Connector
(15, 25, 50mm; left- or right- angulated 50mm)
046W0AN76XXX

Pre-Contoured Rod (Ti-Alloy)
(30–120mm)
046W0AN51XXX

CoCr Rod
(200, 300, 400, 500mm)
046W0AN5XXXX

Straight Rod (Ti Alloy)
(30–500mm)
046W0AN50XXX

Blocker
046W0AN00002

***SpeedLink II* Transverse Connector System**
3308-35 Small
3309-40 Medium
3310-50 Large