Easyspine®
PEDICLE SCREW SYSTEM

Designed by leading spine surgeons, Easyspine® features a simplified surgical technique and adaptable implants to accommodate various pathologies.

Easyspine’s Direct Design Benefits to Trauma

Easyspine instrumentation offers excellent control of the fracture reduction with a reproducible surgical technique.

Simple Instrumentation

Smart design for trauma
- Only a few additional instruments are required to preserve posterior height and reduce the fracture.
- The instruments provide a controlled reduction, adjustable by the millimeter. At anytime, the reduction can be stopped and locked in place.
- The instruments are self stable and allow an intraoperative x-ray to validate the reduction.

Screws

Monoaxial design with integrated multiaxial locking mechanism
- Monoaxial screw design enables efficient and real compression or distraction between the vertebra.
- No assembly required
- Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
- Same range of implants available for trauma as for DDD.

Rods

Unique flat design
- Locking is optimized by contact between two flat surfaces.
- Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.
- The flattened rod allows a visual check of the proper lordotic position in the screw heads.
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Easyspine and Trauma
Easyspine Controls Fracture Reduction and Preserves Posterior Height

- The Alpha and Standard screws feature a monoaxial design with multiaxial capabilities perfect for distraction and compression.
- Pedicle and laminar hooks provide alternate multiaxial fixation.
- Well designed trauma instruments:
  - Allow alternating distraction and reduction.
  - Are self retaining.
  - Allow adjustment by the millimeter.

1. Position Distractor Assembly and distract posterior space
2. Distract anterior space; reduce fracture
3. Lock anterior space and X-ray verification
4. Bend rod, insert and lock

Unique, pre-assembled screws
- Pre-assembled locking components - no risk of dropping parts or cross threading
- Integrated multiaxial connections

A new standard: the LDR flattened rod
- Variable stiffnesses with a constant diameter
- Protection safety stops
- All rods compatible with all screws

Mechanical optimization
- Reliable locking (flat-on-flat connection)
- Final locking torque 30-50% below other systems’ requirements

Implant options for all pathologies
- Standard screw
- Alpha screw
- LP screw
- Pedicle hook
- Under laminar hook
- Lateral connector
- Cross connection
- Spacer

Sterility and traceability
- Sterile packaging
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No assembly screws and hooks

Pre-assembled locking components
- No risk of cross threading set screws.
- No risk of dropping parts.

Integrated multiaxial joints
- Allows multiaxial range of motion.
- Adapts the screw to various pedicle trajectories.
- Directs the flattened part of the rod according to the desired lordotic curve.
- Allows for parallel distraction and compression.

Easyspine’s Direct Design Benefits to Scoliosis

Easyspine improves scoliosis reduction by using a new sequential and transitional reduction technique. The goal: to restore the spine’s sagittal balance through a three dimensional reduction, vertebra by vertebra. No one step de-rotation required and no obligation to load the rod simultaneously in all the screws.

Rods
Unique flat design
- Once one screw is loaded with a rod, the flat surface maintains the proper plane and provides a reference point for the next reduction step.
- The flattened rod allows a visual check of the proper lordotic and sagittal position in the screw heads.
- Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.
- Locking is optimized by contact between two flat surfaces.

Simple Instrumentation
Rod Inserter
- Provides a tactical feel, helping to control the reduction and reduce the risk of pedicle breakage.
- Also provides rotation reduction control.

Screws
Side loading
- No need to put the rod in all the screws at the same time.
- This sequential loading allows fine-tuned reduction control, vertebra by vertebra, eliminating the need to globally de-rotate.
- The rod is bent only on the sagittal plane to restore patient balance and is not bent to fit into the screws.

Integrated multiaxial locking mechanism
- No assembly required.
- Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
- Allows 20° of freedom of the rod inside the screw head in the frontal plane (Standard screw) and 40° in all directions (Alpha screw).
Easyspine®
PEDICLE SCREW SYSTEM

Easyspine and Scoliosis
Easyspine Simplifies Scoliosis Reduction

Easyspine allows:
- One plane rod bending: lordotic and kyphotic. No coronal bend is needed.
- Sequential rod loading in each screw.
- Sequential rotation of the vertebra (rather than attempting one large rotational move) to achieve a high quality reduction.

1. Insert screws
2. Insert rod in 1 or 2 screws
3. Sequentially load rod, screw by screw
4. Compression or distraction

A new standard:
the LDR flattened rod

Variable stiffnesses with a constant diameter
Three rod heights with constant diameter (6mm) are available in order to obtain different construct rigidities, while using the same screws.

Protection safety stops
- The rod ends incorporate a 2mm stop to avoid any unintentional over-shooting of the rod at the superior and inferior screw assembly.
- The rod stops helps to protect the articular facet joints by allowing the rod end to be completely contained within the screw head, reducing the incidence of facet joint impingement.

Compatible with all screws
- All implants (screws and hooks) are interchangeable with all rods, whatever the stiffness.
- Rod choice can be made intraoperatively, once the screws or hooks are implanted.
- Take advantage of the low profile of the slender rods for the easiest rod loading.

Rotation control
The flattened rod helps prevent any rotation of the rod in the screw head during distraction, compression and scoliosis correction, as well as after final lock.

Restoration of lordosis
The flattened rod allows a visual check of the proper lordotic position in the screw heads.
Easyspine®
PEDICLE SCREW SYSTEM

Mechanical optimization

Reliable flat on flat locking system

- Connection reliability is optimized by contact between two flat surfaces (flat rod matches flat-faced swivel joint), rather than the point or line contact of other systems.
- The final tightening torque is 30 to 50% below the requirements of other systems, minimizing the stress imposed on the overall construct and the spine.
- Pre-assembled set screws enable the tighter, stronger set screw thread pitch of 0.5mm:
  - Compare to the 1.25mm set screw pitch of competitive systems.
  - Increases the surface contact between the threads to ensure better long term lock reliability.

Easyspine’s Direct Design Benefits to Spondylolisthesis

The LP screw, using the rod as a stable starting point, pulls the vertebral body posterior as the screw drives into the bone. This design allows flexible reduction amounts, based on anatomic requirements.

LP Screw

Built-in offset
10mm of built-in offset facilitates:
- Lateral screw placement.
- The staggering of pedicle screw locations.
- Rod insertion.

Independent component locking
- Each multiaxial component locks independently; locking the rod is independent of reduction.
- Reduction can be stopped at anytime and adjusted from 0 to 100%.
- Bony reduction is obtained by driving the screw into the vertebra.

Rods

Unique flat design
- Locking is optimized by contact between two flat surfaces.
- Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.

Simple Instrumentation
- Only two additional instruments required.
- Simple, reproducible technique generates true reduction.
Easyspine®
PEDICL E SCREW SYSTEM

Easyspine and Spondylolisthesis Reduction
LP Screw: Restoring Sagittal Balance

- Use the LP screw to reduce any grade spondylolisthesis. The reduction can be adjusted and stopped whenever the surgeon has achieved the desired reduction amount.
- The LP screw achieves reduction by driving the screw into the vertebral body, increasing bony contact and decreasing the risk of screw pullout.
- The LP head can still be moved to adjust to the rod’s lordotic curve before final lock.
- Only two additional instruments are needed to complete a reduction.

1. Insert LP screw
2. Rotate LP head to fully engage the flat rod
3. Pre-tighten the set screw; then drive in the LP screw (reduction)
4. Final locking of both set screw and nut

**Strong bony anchorage**

- The Easyspine screw features a tapered core and constant outer thread diameter. Specially designed to:
  - Match anatomically tapered pedicles.
  - Maximize the diameter of the screw at the entry point of the pedicle (increasing the pullout strength).
  - Allow for height adjustments (stability is maintained by the outer threads at the screw’s base).

**Notable mechanical tests**

Mechanical tests by an independent laboratory highlighted the following factors:
- The Easyspine multiaxial connection was able to withstand an axial load of 1400 N (slippage resistance test).
- Easyspine’s maximum load without failure was in the better half of the competitors at 375 N (static multiaxial resistance test).
- All tests were performed using a locking torque 30 to 50% below competitive systems and the smallest diameter screw of any competitor tested.

Easyspine®

PEDICLE SCREW SYSTEM

Combine implants to fit the pathology

Alpha screw

- The multiaxial design allows for 20° of angulation in all directions; 40° total.
- Combines the mechanical resistance of a monoaxial screw with the advantages of a polyaxial screw.
- Allows for parallel distraction.

Easyspine’s Direct Design Benefits to Dynamic Fusion

Easyspine’s slender rod creates the unique capability of dynamic fusion; load sharing with an interbody device to potentially improve and accelerate the rate of fusion.

Rods

Slender option
- The 4mm height of the slender rod decreases the rigidity in the anterior-posterior plane compared to the M (5mm) and R (5.6mm) rods.
- The 6mm diameter of the slender rod is the same as the M & R rods, providing the same rigidity during lateral bending (see chart page 7).
- Compared to a competitor’s round rod, the low profile of the slender rod simplifies loading into the screw head.

Unique flat design
- Locking is optimized by contact between two flat surfaces.
- Safety stops protect against facet joint impingement by containing the rod end inside of the screw head.
- Flattened rod allows a visual check of the proper lordotic position in the screw heads.
- Flattened rod also helps prevent any rotation of the rod in the screw head during distraction and compression, as well as after final lock.

Screws

Integrated multiaxial locking mechanism
- No assembly required.
- Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
- Allows sequential rod loading.

Monoaxial design with polyaxial capabilities
- Combines the mechanical resistance of a monoaxial screw with the range of a polyaxial screw.
- Provides efficient and controlled compression and distraction.
Easyspine®
PEDICLE SCREW SYSTEM

Easyspine and Dynamic Fusion
Slender Rods Improve Graft Loading

- Use an Easyspine slender rod with an ROI (PLIF), ROI-T (TLIF) or ROI-A (ALIF) to create a complete 360° solution.
- The slender rod is designed to improve the chance of fusion by continuing to load the graft in the fused areas, i.e., Wolfe’s Law, “Bone responds to stress”.
- The slender rod allows load sharing on the interbody device without compromising the stability of the spine.
- Revision to a stiffer construct is possible without removing any pedicle screws by swapping the slender rod (S) to a rigid (R) or medium (M).
- Rod rigidity can be selected intraoperatively after screw positioning.

RESULTS:
The Easyspine rods (R, M, S) are roughly equivalent to traditional round rods that are 5.9mm, 5.5mm and 4.6mm.

Elastic Limit for LDR Rods (Newtons)

- Multiaxial locking ball joint allows for 20° of motion in a medial-lateral direction.
- Monoaxial screw designed for strength.
Easyspine®
PEDICLE SCREW SYSTEM
Combine implants to fit the pathology

LP screw

Built-in offset
10mm of built-in offset facilitates:
• Lateral screw placement.
• The staggering of pedicle screw locations.
• Rod insertion.

70° of motion
• Screw allows 20° of movement in a 360° range
• Dual connection design allows for 70° of total head motion due to the:
  - Polyaxial component: the screw head to screw shaft connection.
  - Multiaxial component: the screw head to rod connection.

Independent movement shown

Easyspine’s Direct Design Benefits to Lumbar and Thoracic Fusion
Easyspine’s design made key improvements when compared to a standard pedicle system to simplify a basic fusion case.

Screws
Integrated multiaxial locking mechanism
• No assembly required.
• Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
• Allows sequential rod loading.

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Rods
Unique flat design
• Locking is optimized by contact between two flat surfaces.
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• Flattened rod allows a visual check of the proper lordotic position in the screw heads.
• Flattened rod also helps prevent any rotation of the rod in the screw head during distraction and compression, as well as after final lock.

Modular rigidity
• Constant 6mm rod diameter available in three heights provides variable construct rigidity (S, M and R).
• All screws are compatible with all rods - no additional implants required.
• Select rod rigidity intraoperatively after screw positioning.

System
An implant for all pathologies
• Three screw options: Standard, Alpha and LP.
• Range of motion varies by screw: 20° medial-lateral, 40° of total motion and 70° of total motion.
• Use screws in any combination.
Easyspine®

PEDICLE SCREW SYSTEM

Easyspine and Degenerative Disc Disease
Designed for Ease of Use

One level fusion
- No screw assembly required; multiaxial component and set screw are integrated.
- Requires only three instruments and three steps.
- Quick, especially when compared to competitive systems that require extra steps for locking and screw assembly.

1. Implant screws with Screw Holder
2. Set rod in place with Rod Holder
3. Lock set screws with Screwdriver

Two or more levels of fusion
- Only four steps and four instruments are required (add the Rod Inserter as needed).
- An LP screw can be used at anatomically lateral LS.

Unique spondylolisthesis reduction capabilities
Simplifies spondylolisthesis reduction with minimal instrumentation.

Independent component locking
Each multiaxial component locks independently, allowing:
- Greater control over reduction maneuvers.
- Pre-assembly away from the bone.

1. Independent locking of the screw head to the screw stem using the lock nut.
2. Independent locking of the rod in the screw head using the set screw.
Easyspine®

PEDICLE SCREW SYSTEM

Combine implants to fit the pathology

Pedicle hook

• Multiaxial locking ball joint allows for 20° of angulation, 40° total.
• Designed for use in the thoracic region, T11 and superior.
• Right and left hook shapes available.

Under laminar hook

• Similar to the LP screw:
  - The dual connection design allows for 50° of total motion due to a polyaxial component (the head to hook connection) and the multiaxial component (the head to rod connection).
  - Hook allows 20° of movement in a 360° range
  - 10mm of built-in offset facilitates flexible hook placement.
• Designed for use in the lumbar region as an angled offset hook.
• Right and left hook shapes available.

Scoliosis

• The sequential loading capability enables controlled deformity correction

Spondylolisthesis

• The LP screw allows reduction of any grade spondylolisthesis and can be stopped whenever the surgeon achieves the desired position

Trauma

• Smart instrumentation allows adjustment by the millimeter to control fracture reduction and preserve posterior height
Easyspine®
PEDICLE SCREW SYSTEM

**Degenerative Disc Disease**
- Integrated locking mechanisms and pre-assembled multiaxial joints simplify construct assembly.

**Dynamic Fusion**
- The slender rod allows load sharing through the interbody device without compromising stability.

**Lateral connector**
- Designed for use with the Alpha screw.
- Provides an adjustable offset distance of 13-24mm.
- Incorporates the same multiaxial connection used in the Standard screw.

**Cross connection**
Use in either compression or distraction.

Easyspine Pathology Map
Easyspine®

PEDICLE SCREW SYSTEM

Sterility and traceability

LDR is the first spine company to guarantee the absolute traceability of its entire product range, due to our sterile packaging and lot numbering system.

Sterilization

All implants are double packaged in one blister pack and one vacuum packed plastic bag with sterilization control stickers.

Absolute traceability

Each implant is absolutely traceable from the initial manufacturing step to final implantation.

Product quality assurance

Sterile packaging ensures the implant is delivered to the surgical field in its original condition.

Optimized management

- Sterile packaging of implants allows immediate usage without any additional time or money required for sterile processing.
- Easyrack™ “sterile implant distribution system” ensures a clean visual display and reliable management of implants in the operating room.

Instruments:
A compact system

- Designed by and for spine surgeons.
- Simple and functional instrumentation help assure a reproducible technique.
- Full compatibility between all screws and all rods provides the same surgical options of typical pedicle screw systems, yet require only a third of the inventory.
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PEDICLE SCREW SYSTEM

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PEDICLE SCREW SYSTEM

Combine implants to fit the pathology

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  - Hook allows 20° of movement in a 360° range.
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  - Designed for use in the lumbar region as an angled offset hook.
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Spondylolisthesis

• The LP screw allows reduction of any grade spondylolisthesis and can be stopped whenever the surgeon achieves the desired position.

Scoliosis

• The sequential loading capability enables controlled deformity correction.

Trauma

• Smart instrumentation allows adjustment by the millimeter to control fracture reduction and preserve posterior height.
**Easyspine®**

PEDICLE SCREW SYSTEM

Easyspine and Degenerative Disc Disease

Designed for Ease of Use

**One level fusion**

- No screw assembly required; multiaxial component and set screw are integrated.
- Requires only three instruments and three steps.
- Quick, especially when compared to competitive systems that require extra steps for locking and screw assembly.

1. Implant screws with Screw Holder

2. Set rod in place with Rod Holder

**Two or more levels of fusion**

- Only four steps and four instruments are required (add the Rod Inserter as needed).
- An LP screw can be used at anatomically lateral LS.

3. Lock set screws with Screwdriver

**Unique spondylolisthesis reduction capabilities**

Simplifies spondylolisthesis reduction with minimal instrumentation.

**Independent component locking**

Each multiaxial component locks independently, allowing:

- Greater control over reduction maneuvers.
- Pre-assembly away from the bone.

1. Independent locking of the screw head to the screw stem using the lock nut.

2. Independent locking of the rod in the screw head using the set screw.
**Easyspine**

**PEDICLE SCREW SYSTEM**

Combine implants to fit the pathology

**LP screw**

**Built-in offset**

10mm of built-in offset facilitates:
- Lateral screw placement.
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- Rod insertion.

**70° of motion**

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**Easyspine’s Direct Design Benefits to Lumbar and Thoracic Fusion**

Easyspine’s design made key improvements when compared to a standard pedicle system to simplify a basic fusion case.

**Screws**

Integrated multiaxial locking mechanism
- No assembly required.
- Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
- Allows sequential rod loading.

Monoaxial design with polyaxial capabilities
- Combines the mechanical resistance of a monoaxial screw with the range of a polyaxial screw.
- Provides efficient and controlled compression and distraction.

**Rods**

Unique flat design
- Locking is optimized by contact between two flat surfaces.
- Safety stops protect against facet joint impingement by containing the rod end inside of the screw head.
- Flattened rod allows a visual check of the proper lordotic position in the screw heads.
- Flattened rod also helps prevent any rotation of the rod in the screw head during distraction and compression, as well as after final lock.

Modular rigidity
- Constant 6mm rod diameter available in three heights provides variable construct rigidity (S, M and R).
- All screws are compatible with all rods - no additional implants required.
- Select rod rigidity intraoperatively after screw positioning.

**System**

An implant for all pathologies
- Three screw options: Standard, Alpha and LP.
- Range of motion varies by screw: 20° medial-lateral, 40° of total motion and 70° of total motion.
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Easyspine®

PEDICLE SCREW SYSTEM

Easyspine and Dynamic Fusion
Slender Rods Improve Graft Loading

- Use an Easyspine slender rod with an ROI (PLIF), ROI-T (TLIF) or ROI-A (ALIF) to create a complete 360° solution.
- The slender rod is designed to improve the chance of fusion by continuing to load the graft in the fused areas, i.e., Wolfe’s Law, “Bone responds to stress.”
- The slender rod allows load sharing on the interbody device without compromising the stability of the spine.
- Revision to a stiffer construct is possible without removing any pedicle screws by swapping the slender rod (S) to a rigid (R) or medium (M).
- Rod rigidity can be selected intraoperatively after screw positioning.

RESULTS:
The Easyspine rods (R, M, S) are roughly equivalent to traditional round rods that are 5.9mm, 5.5mm and 4.6mm.

Elastic Limit for LDR Rods (Newtons)

- Rods labeled R, M, S.
- Stiffness levels: 100%, 80%, 50%.
- Elastic limit values: 583, 461, 290 Newtons, respectively.

Standard screw

- Multiaxial locking ball joint allows for 20° of motion in a medial-lateral direction.
- Monoaxial screw designed for strength.
A SMARTER UNIQUE DESIGN

Easyspine®
PEDICLE SCREW SYSTEM

Combine implants to fit the pathology

**Alpha screw**

- The multiaxial design allows for 20° of angulation in all directions; 40° total.
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Easyspine’s Direct Design Benefits to Dynamic Fusion

Easyspine’s slender rod creates the unique capability of dynamic fusion; load sharing with an interbody device to potentially improve and accelerate the rate of fusion.

**Rods**

**Slender option**
- The 4mm height of the slender rod decreases the rigidity in the anterior-posterior plane compared to the M (5mm) and R (5.6mm) rods.
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- Compared to a competitor’s round rod, the low profile of the slender rod simplifies loading into the screw head.

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PEDICLE SCREW SYSTEM

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Easyspine and Spondylolisthesis Reduction
LP Screw: Restoring Sagittal Balance

- Use the LP screw to reduce any grade spondylolisthesis. The reduction can be adjusted and stopped whenever the surgeon has achieved the desired reduction amount.
- The LP screw achieves reduction by driving the screw into the vertebral body, increasing bony contact and decreasing the risk of screw pullout.
- The LP head can still be moved to adjust to the rod’s lordotic curve before final lock.
- Only two additional instruments are needed to complete a reduction.

1. Insert LP screw
2. Rotate LP head to fully engage the flat rod
3. Pre-tighten the set screw; then drive in the LP screw (reduction)
4. Final locking of both set screw and nut

Strong bony anchorage
- The Easyspine screw features a tapered core and constant outer thread diameter. Specially designed to:
  - Match anatomically tapered pedicles.
  - Maximize the diameter of the screw at the entry point of the pedicle (increasing the pullout strength).
  - Allow for height adjustments (stability is maintained by the outer threads at the screw’s base).

Notable mechanical tests
Mechanical tests by an independent laboratory highlighted the following factors:
- The Easyspine multiaxial connection was able to withstand an axial load of 1400 N (slippage resistance test).
- Easyspine’s maximum load without failure was in the better half of the competitors at 375 N (static multiaxial resistance test)\(^2\).
- All tests were performed using a locking torque 30 to 50% below competitive systems and the smallest diameter screw of any competitor tested.

Comparison of stiffness between LDR rods and conventional round rods

**LDR Rods**
- H Rod: h = 5.6 mm
- M Rod: h = 5.0 mm
- S Rod: h = 4.0 mm

**Conventional Rods**
- Ø 5.5 mm
- Ø 4.6 mm

3 rigidities:
1 screw system

3 rigidities:
3 different systems

1. Insert LP screw
2. Rotate LP head to fully engage the flat rod
3. Pre-tighten the set screw; then drive in the LP screw (reduction)
4. Final locking of both set screw and nut


Easyspine® PEDICILE SCREW SYSTEM
Mechanical optimization

**Reliable flat on flat locking system**

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  - Compare to the 1.25mm set screw pitch of competitive systems.
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**Easyspine’s Direct Design Benefits to Spondylolisthesis**

The LP screw, using the rod as a stable starting point, pulls the vertebral body posterior as the screw drives into the bone. This design allows flexible reduction amounts, based on anatomic requirements.

**LP Screw**

- Built-in offset
  - 10mm of built-in offset facilitates:
    - Lateral screw placement.
    - The staggering of pedicle screw locations.
    - Rod insertion.

- Independent component locking
  - Each multiaxial component locks independently; locking the rod is independent of reduction.
  - Reduction can be stopped at anytime and adjusted from 0 to 100%.
  - Bony reduction is obtained by driving the screw into the vertebra.

**Rods**

- Unique flat design
  - Locking is optimized by contact between two flat surfaces.
  - Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.

**Simple Instrumentation**

- Only two additional instruments required.
- Simple, reproducible technique generates true reduction.
Easyspine®
PEDICLE SCREW SYSTEM

Easyspine and Scoliosis
Easyspine Simplifies Scoliosis Reduction

Easyspine allows:
• One plane rod bending: lordotic and kyphotic. No coronal bend is needed.
• Sequential rod loading in each screw.
• Sequential rotation of the vertebra (rather than attempting one large rotational move) to achieve a high quality reduction.

1. Insert screws
2. Insert rod in 1 or 2 screws
3. Sequentially load rod, screw by screw
4. Compression or distraction

A new standard:
the LDR flattened rod

Variable stiffnesses with a constant diameter
Three rod heights with constant diameter (6mm) are available in order to obtain different construct rigidities, while using the same screws.

Protection safety stops
• The rod ends incorporate a 2mm stop to avoid any unintentional over-shooting of the rod at the superior and inferior screw assembly.
• The rod stops helps to protect the articular facet joints by allowing the rod end to be completely contained within the screw head, reducing the incidence of facet joint impingement.

Compatible with all screws
• All implants (screws and hooks) are interchangeable with all rods, whatever the stiffness.
• Rod choice can be made intraoperatively, once the screws or hooks are implanted.
• Take advantage of the low profile of the slender rods for the easiest rod loading.

Rotation control
The flattened rod helps prevent any rotation of the rod in the screw head during distraction, compression and scoliosis correction, as well as after final lock.

Restoration of lordosis
The flattened rod allows a visual check of the proper lordotic position in the screw heads.
Easyspine®

PEDICLE SCREW SYSTEM

No assembly screws and hooks

Pre-assembled locking components

• No risk of cross threading set screws.
• No risk of dropping parts.

Integrated multiaxial joints

• Allows multiaxial range of motion.
• Adapts the screw to various pedicle trajectories.
• Directs the flattened part of the rod according to the desired lordotic curve.
• Allows for parallel distraction and compression.

Easyspine’s Direct Design Benefits to Scoliosis

Easyspine improves scoliosis reduction by using a new sequential and transitional reduction technique. The goal: to restore the spine’s sagittal balance through a three dimensional reduction, vertebra by vertebra. No one step de-rotation required and no obligation to load the rod simultaneously in all the screws.

Rods

Unique flat design
• Once one screw is loaded with a rod, the flat surface maintains the proper plane and provides a reference point for the next reduction step.
• The flattened rod allows a visual check of the proper lordotic and sagittal position in the screw heads.
• Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.
• Locking is optimized by contact between two flat surfaces.

Simple Instrumentation

Rod Inserter
• Provides a tactical feel, helping to control the reduction and reduce the risk of pedicle breakage.
• Also provides rotation reduction control.

Screws

Side loading
• No need to put the rod in all the screws at the same time.
• This sequential loading allows fine-tuned reduction control, vertebra by vertebra, eliminating the need to globally de-rotate.
• The rod is bent only on the sagittal plane to restore patient balance and is not bent to fit into the screws.

Integrated multiaxial locking mechanism
• No assembly required.
• Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
• Allows $20^\circ$ of freedom of the rod inside the screw head in the frontal plane (Standard screw) and $40^\circ$ in all directions (Alpha screw).
Easyspine®

PEDICLE SCREW SYSTEM

Easyspine and Trauma
Easyspine Controls Fracture Reduction and Preserves Posterior Height

- The Alpha and Standard screws feature a monoaxial design with multiaxial capabilities perfect for distraction and compression.
- Pedicle and laminar hooks provide alternate multiaxial fixation.
- Well designed trauma instruments:
  - Allow alternating distraction and reduction.
  - Are self retaining.
  - Allow adjustment by the millimeter.

1. Position Distractor Assembly and distract posterior space
2. Distract anterior space; reduce fracture
3. Lock anterior space and X-ray verification
4. Bend rod, insert and lock

Unique, pre-assembled screws
- Pre-assembled locking components - no risk of dropping parts or cross threading
- Integrated multiaxial connections

A new standard: the LDR flattened rod
- Variable stiffnesses with a constant diameter
- Protection safety stops
- All rods compatible with all screws

Mechanical optimization
- Reliable locking (flat-on-flat connection)
- Final locking torque 30-50% below other systems’ requirements

Implant options for all pathologies
- Standard screw
- Alpha screw
- LP screw
- Pedicle hook
- Under laminar hook
- Lateral connector
- Cross connection
- Spacer

Sterility and traceability
- Sterile packaging

Easyspine® ADDRESSES ALL PATHOLOGIES
Easyspine®
PEDICLE SCREW SYSTEM

Designed by leading spine surgeons, Easyspine® features a simplified surgical technique and adaptable implants to accommodate various pathologies.

Easyspine’s Direct Design Benefits to Trauma

Easyspine instrumentation offers excellent control of the fracture reduction with a reproducible surgical technique.

Simple Instrumentation

Smart design for trauma
• Only a few additional instruments are required to preserve posterior height and reduce the fracture.
• The instruments provide a controlled reduction, adjustable by the millimeter. At anytime, the reduction can be stopped and locked in place.
• The instruments are self stable and allow an intraoperative x-ray to validate the reduction.

Screws

Monoaxial design with integrated multiaxial locking mechanism
• Monoaxial screw design enables efficient and real compression or distraction between the vertebra.
• No assembly required
• Pre-assembled locking components and integrated multiaxial joints eliminate the risk of cross threading and require no additional instruments.
• Same range of implants available for trauma as for DDD.

Rods

Unique flat design
• Locking is optimized by contact between two flat surfaces.
• Flattened rod helps prevent any rotation of the rod in the screw head during final lock, as well as during distraction and compression.
• The flattened rod allows a visual check of the proper lordotic position in the screw heads.