

G5 Spine System

SURGICAL TECHNIQUE

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The G5 Spine system is a comprehensive thoracolumbar spinal system, which is mainly designed for treatment of spine deformity. The design and production are based on principle of speed, security and simplicity.

Product Features :

Double screw thread design:

double the screw insertion speed, reducing the occurrence of bleeding, infection and other complication during surgery

2 types of locking mechanism:

Mono locking mechanism: for surgeons who prefer traditional surgery methods and facilitate ordinary surgery.

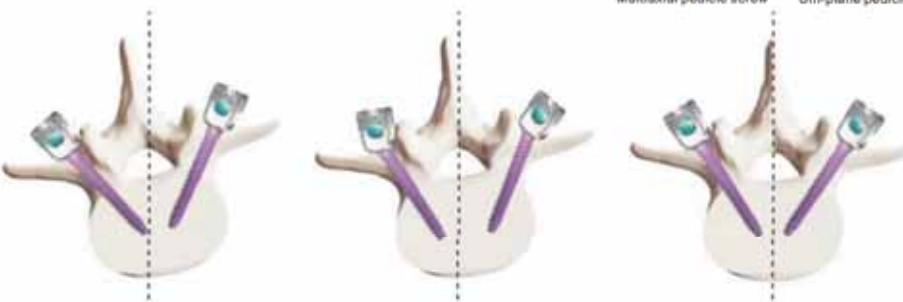
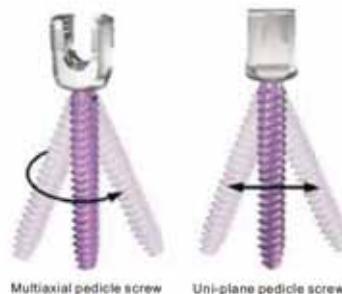
Double locking mechanism: composed by inner cap and outer cap, tighten outer cap can fix the angulation of the pedicle screw, tighten inner screw cap can fix the position of the pedicle screw on the rod. Double locking mechanism is especially suitable for intervertebra degeneration fusion and deformity correction



2 types angulation pedicle screws:

Multiaxial pedicle screw: 360 degree rotation in a certain angulation range, a type of traditional multiaxial pedicle screw

Uni-plane pedicle screw: transverse angulation only, it prevents anti-rotation capability during scoliosis



Indications

- Instability of thoracic, lumbar, or sacral spine secondary caused by degenerative disease
- Spinal canal stenosis
- Spinal deformity
- Tumour or tuberclosis in thoracic and lumbar
- Failed previous fusion

Contradiction

- Infection
- Obesity
- Pregnant
- Severe osteoporosis
- Mental problem

Step 1

Preparation

Take general anesthesia and supine position. Use bow shaped bracket to avoid pressure in abdomen and vein.

Step 2

Incision

Take standard incision way- posterior midline approach. The incision line should be long enough to expose the surgery part of spine, cut lumbodorsal fascia along spinous process and remain supraspinous ligament interspinal ligament, especially the upper side along with instrument located. Elevate periosteum carefully to soft tissue. Spinal muscular tissue should be separated to outside of articular process, when it is necessary, separate outside of transverse process.



Step 3

Pedical Screw Insertion

1 Make sure insertion location

Intersection part of superior and inferior articular process. The intersection is the point when middle line of transverse process and tangent of outcircle meet, which will be insertion place. The insertion plate in lumbar will be the intersection between lateral edge of laminae of vertebra and parapophysis, which will be shaped like lambdoidal ridge. Clean cortical bones in facies articularis and transverse process with polished drill and rongeur, expose cancellous part in pedical then insert the screw.

There is no transverse process in sacrum spinal and only ala, so the insertion part in sacrum pedical will be different. The surgeon has more choices to insert pedical screw into sacrum because of S1 pedical size and outshape characteristics. The insertion place will be lateral the lower margin of superior articular process.



2 Prepare screw hole

Select utilizing awl to drill cortical pedical screw and makescrew entering hole. Enter along hollow pith with straight awl, deep into 50%-80% of the vertebrae avoid damage cortex in front of vertebrae.

**3 Select pedical screw length**

Check hole wall by probe and to make sure there is no damage in hole. Meanwhile, 10mm scale probe can measure screw length. Insert marker, check the screw hole by X-Ray, and read screw length through lateral projection.

**4 Insert pedical screw**

There are monoaxial screwdriver, multiaxial screwdriver, reduction screwdriver, multiaxial reduction screwdriver, double locking screwdriver, dual reduction locking screw driver.

Thread the screwdriver in along the hole until the screw head down into the end. When insert multiaxial pedical screw, screw head should be away from 1-2mm bone surface, so as to avoid unflat bone surface make angle between screw head and screw body. The strength causes hex screwdriver head to stop in screw, it is not easy to take out or loosen screw. Screw should be threaded in 50%-80% of vertebrae and parallel with endplate. The entering direction should slide to medium size.

Note:

- thread in when hex head of multiaxial screwdriver and double locking screwdriver inserted totally or it will make hex head deformity and fail surgery.

**Step 4****Insert Connecting Rod**

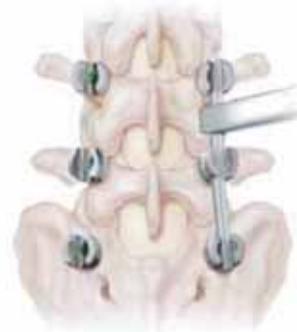
Use rod template to measure the physical curvature, then bend the Titanium Rod by bending irons in accordance with the bend template. There is no need to make accurate bending for screw position, especially for one secondary fusion.





After depressing, pay attention to bone junction and soft tissue loosen of superior and inferior articular process. Place rod in screw head and reduction with gun-type reduction forceps. Hold screw from the head and tighten gun-type reduction forceps to slide down sleeve to press titanium rod and press into end of screw groove.

Use the elastic nut holder to assemble the cap, therefore the rod is temporarily fixed.



G5 spine system has two kinds of locking applications

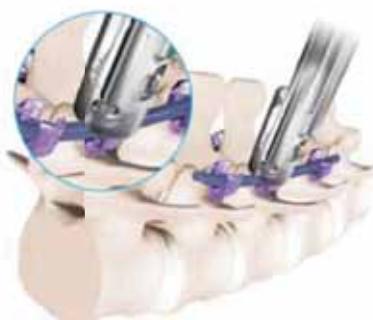
Initial fixation of mono locking: Hold the cap with elastic nuts holder, and insert it into U-head directly.

Initial fixation of double locking application: Hold the double locking cap with double locking cap holder and insert it into U-head lightly. Then tighten outer cap of double locking caps. Process distract or compress and anti-rotation. After above steps, tighten inner cap of double locking caps with screwdriver to fix rod initially. If the rod is raised and need be to replaced, process reduction with gun-type reduction forceps. Hold screw at the U-head and tighten gun-type reduction forceps to slide down sleeve to press rod slowly till it's placed into end of screw groove.



Another way to initially fix mono locking: Hold the cap with elastic nuts holder, and insert it into U-head thru the gun-type reduction forceps. The cap should be screwed into the bottom of U-head.

Another method to initially fix double locking application: Hold the double locking cap with double locking cap holder and insert it through sleeve of reduction forceps into U-head lightly. Then tighten outer cap of double locking caps. Process distract or compress and anti-rotation. After above steps, insert the double locking cap screwdriver along the sleeve to tighten inner cap to fix rod initially.



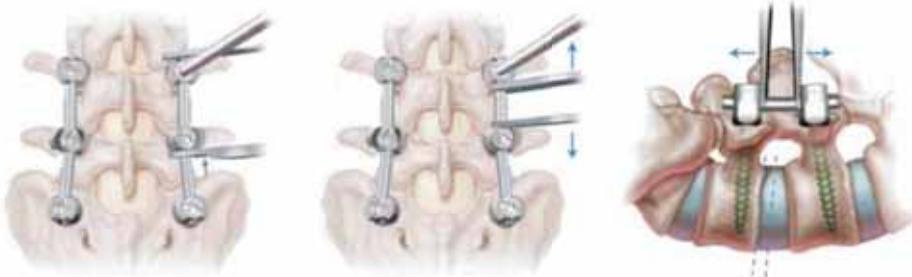
**Step 5**

Implanting the bone graft and Compressing

Distract or compress if required. Temperately fix the screws at the end that requires distraction or compression, while the screws at the other end are left loose. Distract or compress the temperately fixed screws, tighten the screws when the distraction or compression is satisfactorily achieved.



Use the double locking screws at the vertebral requiring inter vertebral fusion. After the pedicle screws are fixed, tighten the outer cap to achieve parallel fixation. When distracting the screws, the inter vertebral gap can be distracted parallelly. Insert the cage and compress parallel. Compared with the common multi-axial pedicel screws, it is easier to totally take out the disc and insert the cage.



With the same principle, when the double locking pedicel screws are applied to scoliosis, after the rod and double locking caps are fit, tighten the outer cap and locate the anterior distraction rod on the head of the screw to prevent rotation, so that the anti-rotation function will not lose because of the change of the screw head angle.

The anti-rotation procedure can also be achieved by using Uni-plane pedicel screws. The Uni-plane pedicel screw cannot move sideways, so the spiral deformity can be corrected by rotate the screws sideways.

Step 6

Final Locking

Tighten the screws when all the implants are fit in position.

Method of tightening the mono locking device: Locate the counter torque over the screw and rod. Fit the nut screwdriver rod into the torque limiting screwdriver and tighten the cap. (Tighten the cap until the torque limiting screwdriver clicks)

Method of tightening the double locking device: Locate the counter torque over the screw and rod. Tighten the outer cap with outer cap screwdriver. Fit the inner cap screwdriver rod into the torque limiting screwdriver and tighten the inner cap. (Tighten the cap until the torque limiting screwdriver clicks)

**Step 7**

Fitting the crosslink and suturing the cut

Fit the crosslink system. Suture the cut properly according to actual situation.

Implants

Product No.	Product Description	Size
33401025	G5 Monoaxial Pedicle Screws	ø4.5X25
33401030	G5 Monoaxial Pedicle Screws	ø4.5X30
33401035	G5 Monoaxial Pedicle Screws	ø4.5X35
33401040	G5 Monoaxial Pedicle Screws	ø4.5X40
33401045	G5 Monoaxial Pedicle Screws	ø4.5X45
33401050	G5 Monoaxial Pedicle Screws	ø4.5X50
33401055	G5 Monoaxial Pedicle Screws	ø4.5X55
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33407055	G5 Monoaxial Pedicle Screws	ø7.5X55



Product No.	Product Description	Size
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Product No.	Product Description	Size
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33430055	G5 Multiaxial Reduction Pedicle Screws	ø7.5X55



G5 Spine System

SURGICAL TECHNIQUE

Product No.	Product Description	Size
33431025	G5 Uni-plane Pedicle Screws	ø5.0X25
33431030	G5 Uni-plane Pedicle Screws	ø5.0X30
33431035	G5 Uni-plane Pedicle Screws	ø5.0X35
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Product No.	Product Description	Size
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33438040	G5 Uni-plane Reduction Pedicle Screws	ø6.5X40
33438045	G5 Uni-plane Reduction Pedicle Screws	ø6.5X45
33438050	G5 Uni-plane Reduction Pedicle Screws	ø6.5X50
33438055	G5 Uni-plane Reduction Pedicle Screws	ø6.5X55



Product No.	Product Description	Size
33439025	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X25
33439030	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X30
33439035	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X35
33439040	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X40
33439045	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X45
33439050	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X50
33439055	G5 Double Locking Multiaxial Pedicle Screws	ø4.0X55
33440025	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X25
33440030	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X30
33440035	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X35
33440040	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X40
33440045	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X45
33440050	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X50
33440055	G5 Double Locking Multiaxial Pedicle Screws	ø4.5X55
33441025	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X25
33441030	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X30
33441035	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X35
33441040	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X40
33441045	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X45
33441050	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X50
33441055	G5 Double Locking Multiaxial Pedicle Screws	ø5.0X55
33442025	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X25
33442030	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X30
33442035	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X35
33442040	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X40
33442045	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X45
33442050	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X50
33442055	G5 Double Locking Multiaxial Pedicle Screws	ø5.5X55
33443030	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X30
33443035	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X35
33443040	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X40
33443045	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X45
33443050	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X50
33443055	G5 Double Locking Multiaxial Pedicle Screws	ø6.0X55
33444030	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X30
33444035	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X35
33444040	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X40
33444045	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X45
33444050	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X50
33444055	G5 Double Locking Multiaxial Pedicle Screws	ø6.5X55
33445030	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X30
33445035	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X35
33445040	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X40
33445045	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X45
33445050	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X50
33445055	G5 Double Locking Multiaxial Pedicle Screws	ø7.0X55
33446030	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X30
33446035	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X35
33446040	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X40
33446045	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X45
33446050	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X50
33446055	G5 Double Locking Multiaxial Pedicle Screws	ø7.5X55

G5 Spine System

Product No.	Product Description	Size
33447025	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X25
33447030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X30
33447035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X35
33447040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X40
33447045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X45
33447050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X50
33447055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.0X55
33448025	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X25
33448030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X30
33448035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X35
33448040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X40
33448045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X45
33448050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X50
33448055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø4.5X55
33449025	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X25
33449030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X30
33449035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X35
33449040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X40
33449045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X45
33449050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X50
33449055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.0X55
33450025	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X25
33450030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X30
33450035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X35
33450040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X40
33450045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X45
33450050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X50
33450055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø5.5X55
33451030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X30
33451035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X35
33451040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X40
33451045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X45
33451050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X50
33451055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.0X55
33452030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X30
33452035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X35
33452040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X40
33452045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X45
33452050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X50
33452055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø6.5X55
33453030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X30
33453035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X35
33453040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X40
33453045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X45
33453050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X50
33453055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.0X55
33454030	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X30
33454035	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X35
33454040	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X40
33454045	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X45
33454050	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X50
33454055	G5 Double Locking Multiaxial Reduction Pedicle Screws	ø7.5X55



SURGICAL TECHNIQUE

Product No.	Product Description	Size
33455000	Cap	

Product No.	Product Description
33456000	Double Locking Cap



Product No.	Product Description	Size
33457050	Rod	ø5.5X50
33457060	Rod	ø5.5X60
33457070	Rod	ø5.5X70
33457080	Rod	ø5.5X80
33457090	Rod	ø5.5X90
33457100	Rod	ø5.5X100
33457110	Rod	ø5.5X110
33457120	Rod	ø5.5X120
33457130	Rod	ø5.5X130
33457140	Rod	ø5.5X140
33457150	Rod	ø5.5X150
33457160	Rod	ø5.5X160
33457170	Rod	ø5.5X170
33457180	Rod	ø5.5X180
33457190	Rod	ø5.5X190
33457200	Rod	ø5.5X200
33457210	Rod	ø5.5X210
33457220	Rod	ø5.5X220
33457230	Rod	ø5.5X230
33457240	Rod	ø5.5X240
33457250	Rod	ø5.5X250
33457260	Rod	ø5.5X260
33457280	Rod	ø5.5X280
33457300	Rod	ø5.5X300
33457350	Rod	ø5.5X350
33457400	Rod	ø5.5X400
33457420	Rod	ø5.5X420
33457450	Rod	ø5.5X450
33457500	Rod	ø5.5X500
33457550	Rod	ø5.5X550





Product No.	Product Description	Size
33458028	ø5.5 Crosslink, adjustable	28~31mm
33458031	ø5.5 Crosslink, adjustable	31~36mm
33458036	ø5.5 Crosslink, adjustable	36~41mm
33458041	ø5.5 Crosslink, adjustable	41~51mm
33458051	ø5.5 Crosslink, adjustable	51~70mm



Product No.	Product Description	Size
33459016	ø5.5 Crosslink, fixed	16mm
33459020	ø5.5 Crosslink, fixed	20mm
33459022	ø5.5 Crosslink, fixed	22mm
33459026	ø5.5 Crosslink, fixed	26mm



Product No.	Product Description	Size
33460028	ø5.5 Crosslink, Straight adjustable	28~31mm
33460031	ø5.5 Crosslink, Straight adjustable	31~36mm
33460036	ø5.5 Crosslink, Straight adjustable	36~41mm
33460041	ø5.5 Crosslink, Straight adjustable	41~51mm
33460051	ø5.5 Crosslink, Straight adjustable	51~70mm



Instruments





108280 Marker, left



108290 Marker, right



108300 Bending Iron, left



108310 Bending Iron, right



108320 Rod Holder Forceps, Curved



108330 Crosslink Hooks Holder

108440 Inner Nut Screwdriver,
for final tightening108450 Inner Nut Screwdriver,
for initial tightening

108470 Counter Torque



108480 Double Locking Cap Holder



108490 Double Locking Screwdriver



108500 Double Locking Reduction Screwdriver



108340 Touque Limiting Screw Driver (10NM)



108350 Nuts Holder, elastic



108360 Monoaxial Screwdriver



108510 Hex Sleeve



108520 Screwdriver, SW3.0



108530 5mm Tap



108370 Multi Axial Screwdriver



108380 Reduction Screws Driver



108390 Multiaxial Reduction Screw Driver



108540 6mm Tap



108550 7mm Tap



108560 Rod Bender



108410 Shaking Fork



108420 Outer Cap Screwdriver, for final tightening

108430 Outer Cap Screwdriver,
for initial tightening

108570 Rod Template



101295 Cap Screwdriver Shaft

KANCHUI
G5 Spine
Internal Fixation System

108000 G5 Spine Internal Fixation Instrument Set



108400 Medium-Lateral Reduction Device



108460 Reduction Device