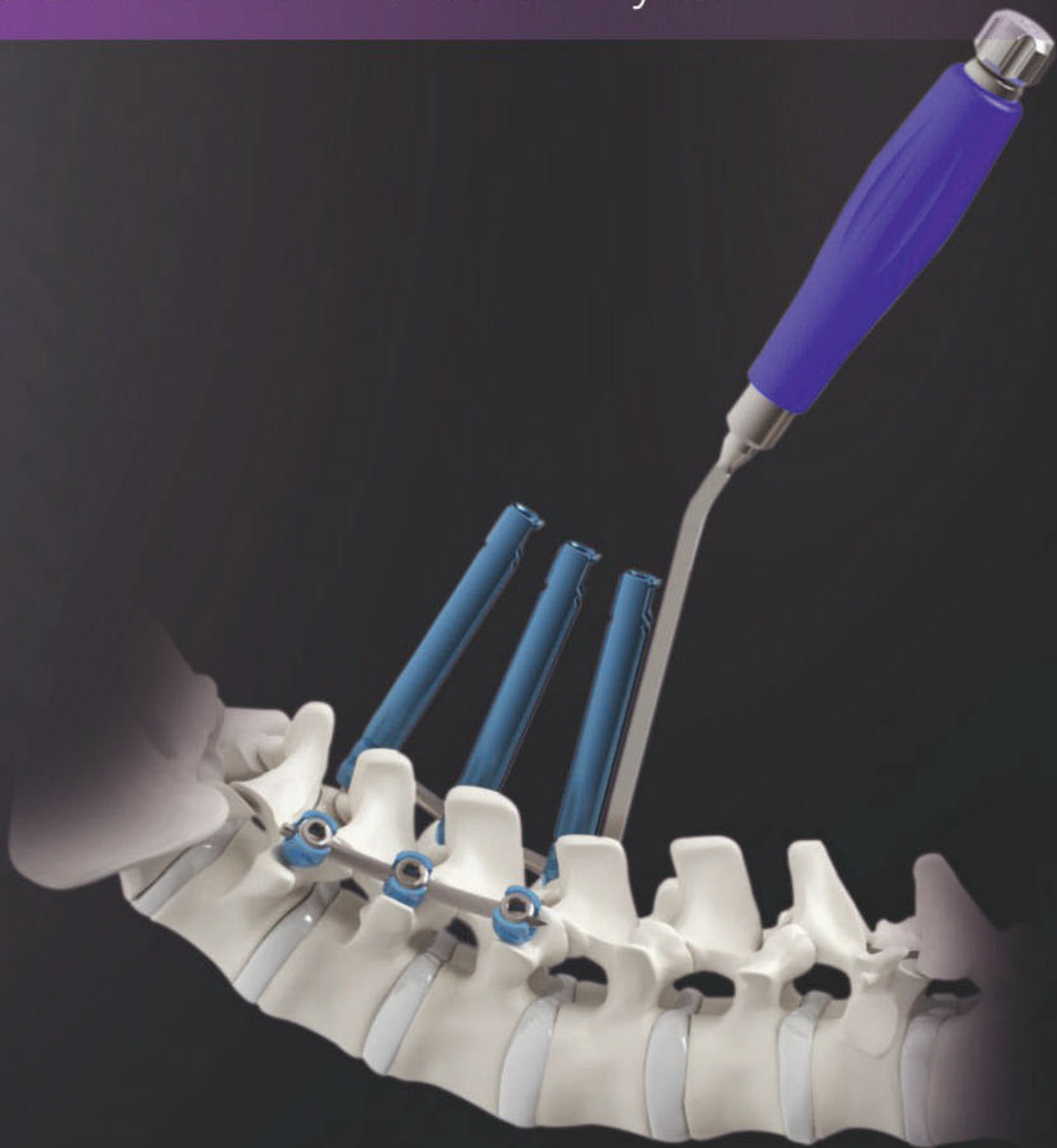


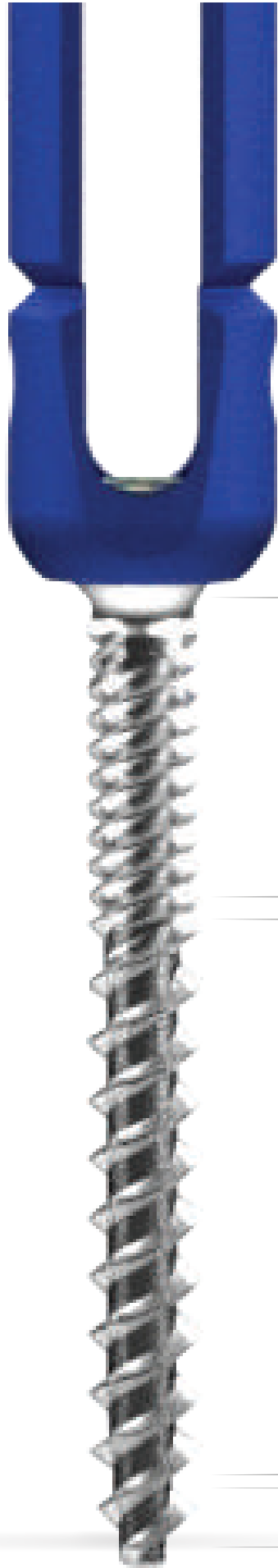
WILL

WHERE THERE IS A WILL THERE'S A WAY ...

4CIS WILL Pedicle Screw System



WILL PEDICLE SCREW SYSTEM



- Patented Quad Lead thread form extends average 18mm from the head of the screw and doubles the Number of contact points with the cortical wall of the Pedicle.
- Increases the resistances to axial pull out forces (Compared to Traditional thread Pedicle Screw)
- Constant dual lead thread promotes rapid screw placement.
- Self-tapping and self-centering screw tip allows for insertion with or without tapping.

Surgical Technique

- Pedicle Preparation
- Guidewire Placement
- Tissue Dilation
- Tapping
- Screw implanting
- Rod Insertion
- Fixing Sleeve Insertion
- Nut Insertion
- Final Tightening
- Compression & Distraction
- Tap Removal



WILL PEDICLE SCREW SYSTEM

Surgical Technique

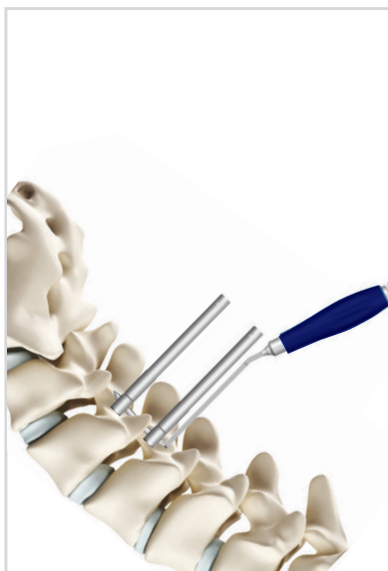
Steps



Guidewire Placement



Rod Insertion



Pedicle Preparation



Nut Insertion



Compression or Distraction

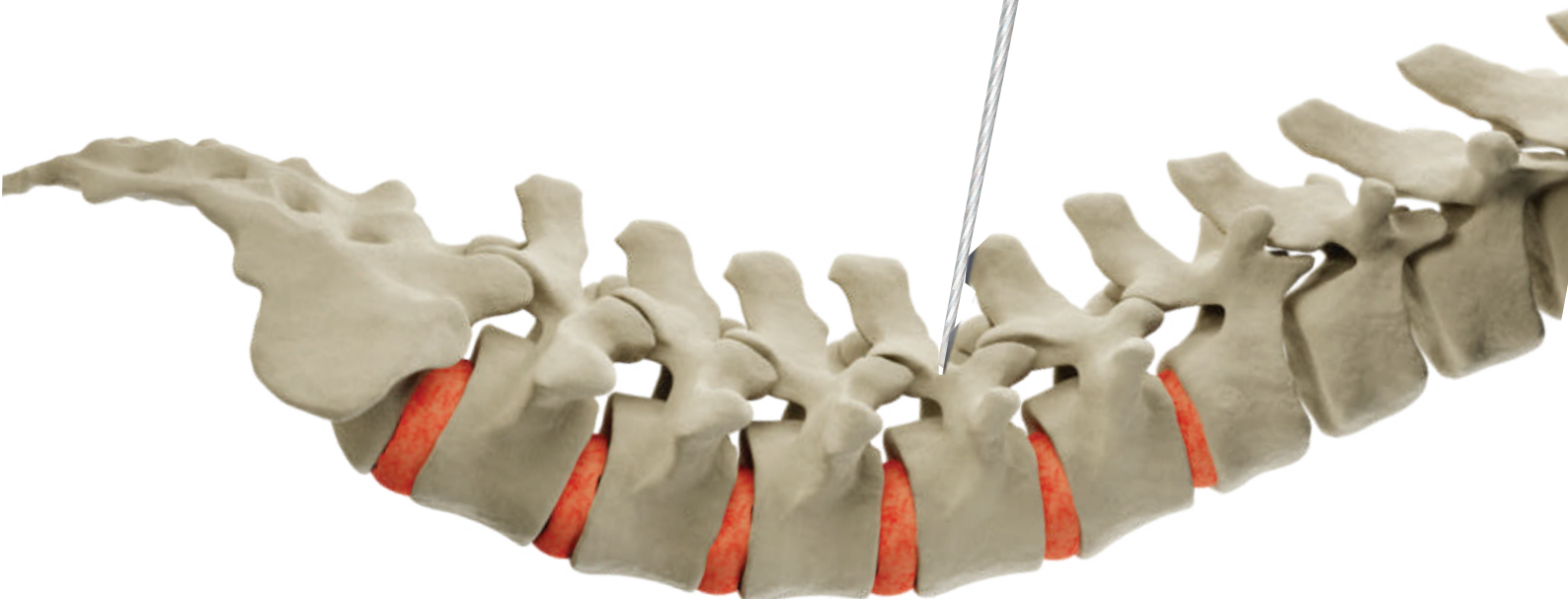


Surgical Technique

Step 1

Pedicle Preparation

It is recommended that preoperative planning is used to help determine the proper entry point and trajectory as the starting point is not usually at the point directly over the pedicle. Identify the operative levels using A/P and lateral fluoroscopy. Plan the entry point to target the pedicle from a transverse trajectory lateral to the facet. Make an incision through the skin and fascia. The typical starting point is 3-4cm off the midline. Insert the Targeting Needle and the Guide down to the surface of the pedicle and dock the tip on the bony anatomy of the desired level and confirm placement with A/P fluoroscopy. Adjustments to the entry angle and the trajectory should be made until the proper position is attained. Advance the Targeting Needle and the Guide down through the pedicle. Once proper placement is confirmed, remove the inner stylet of the targeting needle.

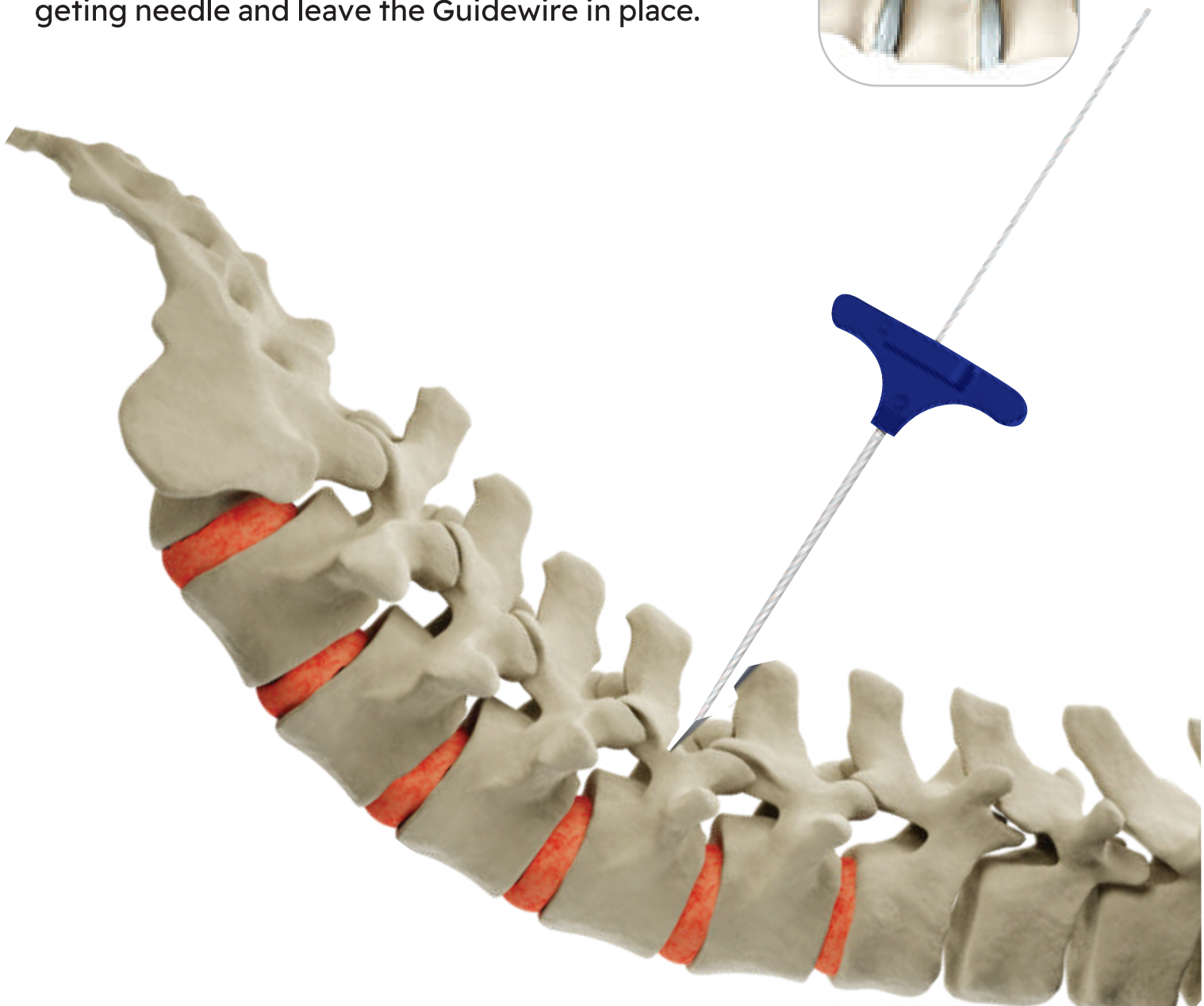
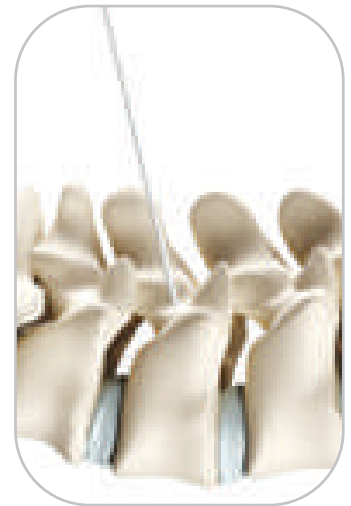


Surgical Technique

Step 2

Guidewire Placement

Insert the Guidewire through the cannulated target needle and advance the Guidewire just past the tip of the Targeting Guide. Use caution when advancing the Guidewire under fluoroscopy ensure the location of the Guidewire. Once the Guidewire is in place remove the Targeting needle and leave the Guidewire in place.

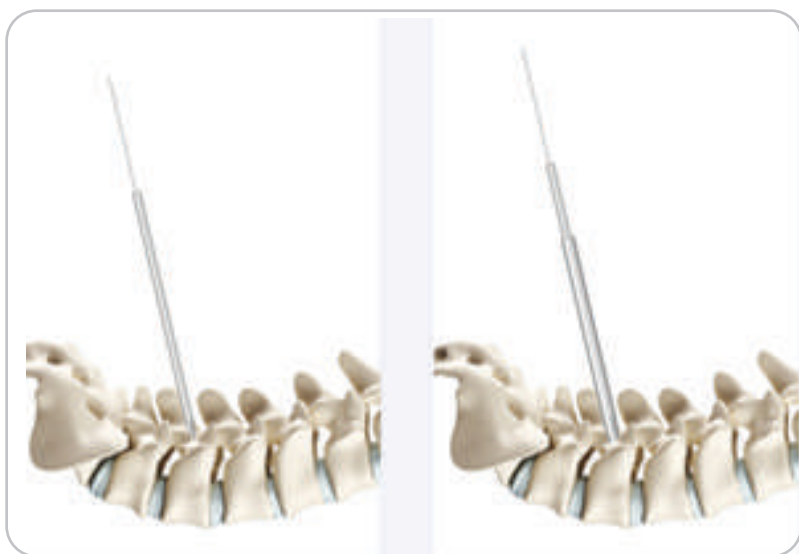


Surgical Technique

Step 3

Tissue Dilation

Insert the Guidewire through the cannulated target needle and advance the Guidewire just past the tip of the Targeting Guide. Use caution when advancing the Guidewire under fluoroscopy ensure the location of the Guidewire. Once the Guidewire is in place remove the Targeting needle and leave the Guidewire in place.



Surgical Technique

Step 4

Tapping



Attach the appropriate Tap size to the preferred handle. Place the tap over the Guidewire and through the Large Dilator to the surface of the pedicle. The depth markers on the Tap shaft where the Tap shaft meets the top of the Large Dilator are used to monitor insertion. They can also be used to determine screw length. Once desired depth has been achieved remove tap while maintaining control of guidewire.

Caution: Use fluoroscopy to monitor guidewire advancement during tapping

Surgical Technique

Step 5

Screw implanting

Insert the Guidewire through the cannulated target needle and advance the Guidewire just past the tip of the Targeting Guide. Use caution when advancing the Guidewire under fluoroscopy ensure the location of the Guidewire. Once the Guidewire is in place remove the Targeting needle and leave the Guidewire in place.

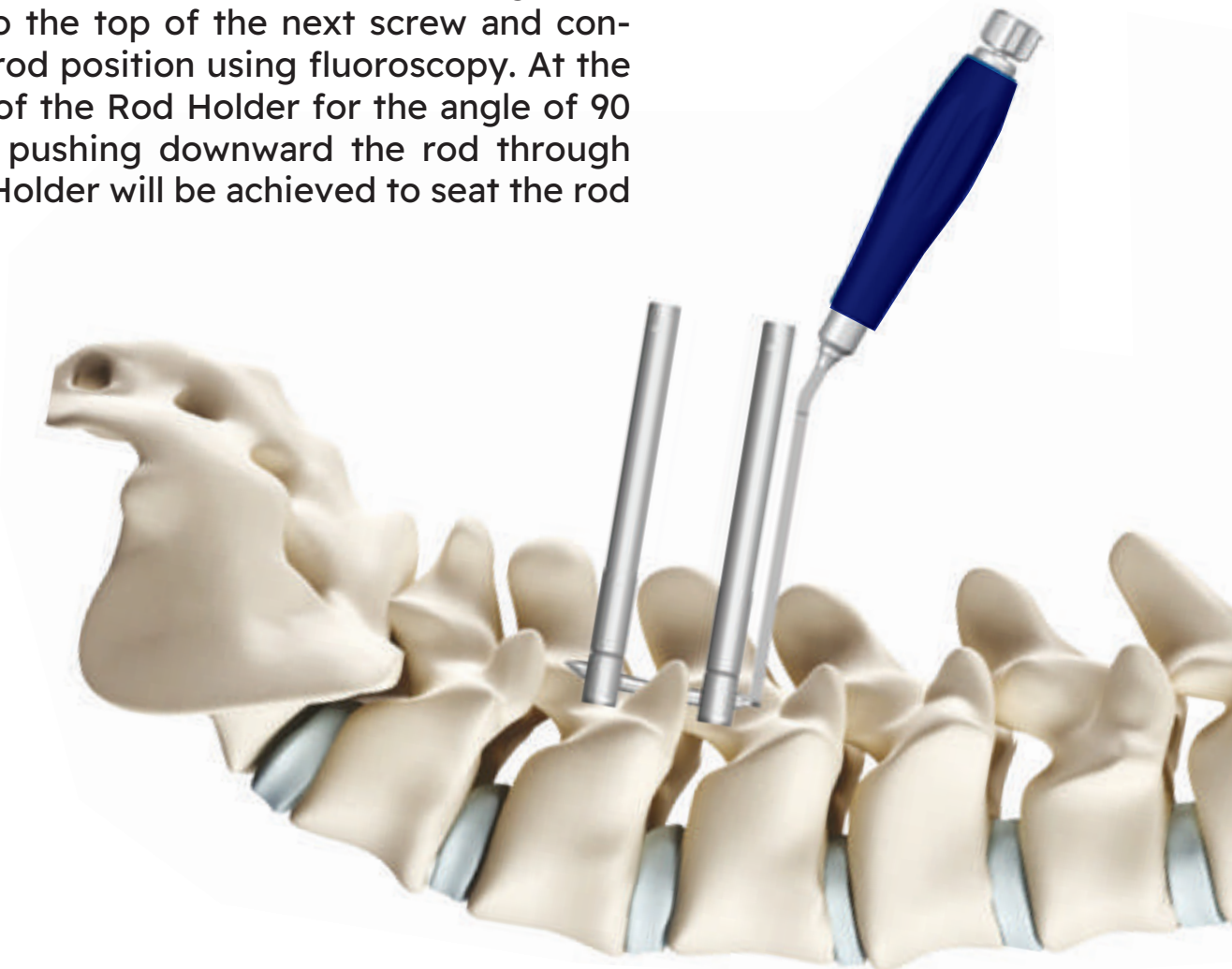


Surgical Technique

Step 6

Rod Insertion

Place an appropriate length of the pre-bent rod at the end tip of the Rod holder and rotate the handle on the top of the Rod Holder clock-wise. This will securely lock the rod in the insertion position. Pass the pre-bent rod through the window of the first screw blade. When the tip of the rod reaches the top of the screw head, advance the rod through the muscle to the top of the next screw and confirm the rod position using fluoroscopy. At the position of the Rod Holder for the angle of 90 degrees, pushing downward the rod through the Rod Holder will be achieved to seat the rod

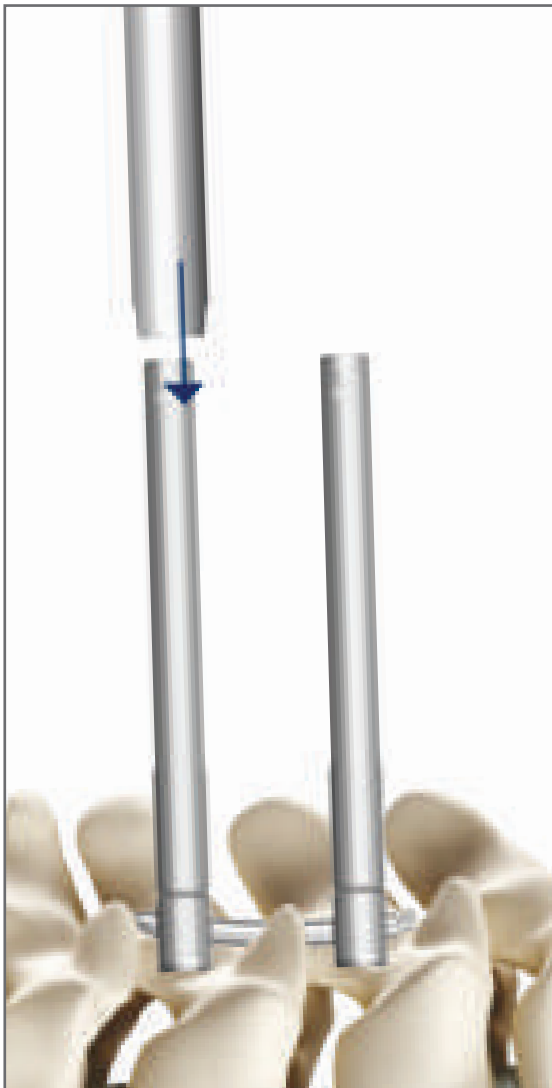


Surgical Technique

Step 7

Fixing Sleeve Insertion

After the rod is loaded into the bottom of the head of the screw, put a Fixing Sleeve over a blade of Will Poly Cannulated Screw and apply another Fixing Sleeve over a blade of adjacent Will Poly Cannulated Screw



Surgical Technique

Step 8

Nut Insertion

Load the Nut on the Nut Starter, and the Nut is inserted into the each screw head until it is fully seated.

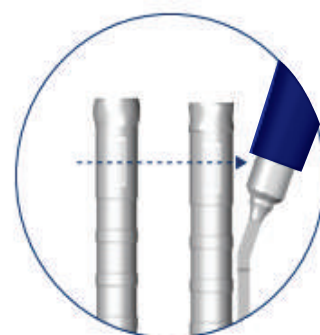


Surgical Technique

Step 9

Final Tightening

Fit Torque Stabilizer over the exterior of the fixing sleeve and secure the screw with the Torque Stabilizer. Attach the Torque Limit Handle to the Nut final Driver. With the Driver,



Surgical Technique

Step 10

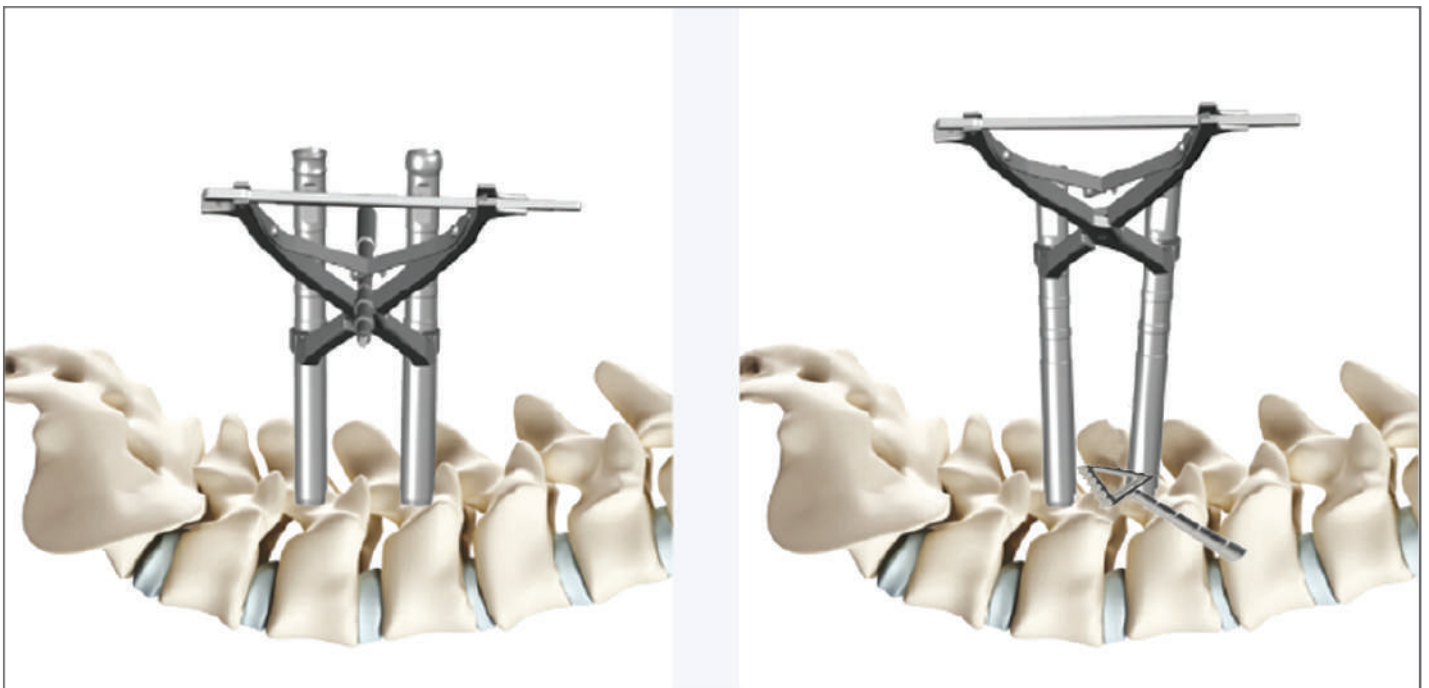
Compression & Distraction

Compression

Attach the tool as close as possible to the surface of the skin. The bar, which acts as a fulcrum, is inserted and above the pivot point between the two

Distraction

Attach the tool as close as possible to the surface of the skin. The bar, which acts as a fulcrum, is inserted and below the pivot point between the two sleeves. Provisionally tighten one of the set screws and then apply force to the handle of the Compression-Distraction tool



Surgical Technique

Step 11

Tap Removal

Will pedicle screw system is designed with breakaway features for easy removal after locking the construct. First, Remove the Fixing Sleeve



Product Catalog

Instruments

VP NEEDLE

0114-0001



GUIDE WIRE SINGLE SIDE BLUNT AND THREADED (500mm)

5815-1504



GUIDEWIRE DOUBLE SIDE BLUNT (500mm)

5816-1504



DILATOR-1(Ø5.3x248)

0114-0013



DILATOR-2(Ø9.3x210)

0114-0014



DILATOR-3(Ø14.9x160)
0114-0016



DILATOR-4(Ø15x110)
0114-0017



TAP 4.3 mm 0114-0002
TAP 4.7 mm 0114-0034
TAP 5.3 mm 0114-0003
TAP 6.3 mm 0114-0004
TAP 7.3 mm 0114-0010



CANNULATED IN- LINE HANDLE
0114-0024



CANNULATED T HANDLE
0114-0025



POLY AXIAL SCREW DRIVER
0114-0006



ROD INSERTER

0114-0030



EXTENSION SLEEVE

0114-0115



ANTI TORQUE DEVICE

0114-0012



NUT STARTER

0105-0014



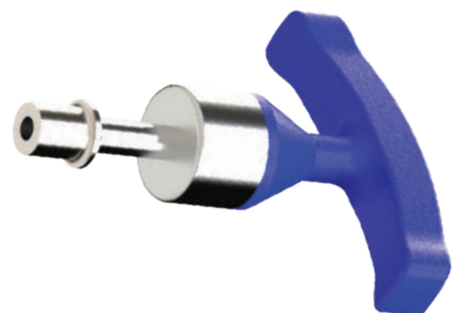
NUT FINAL DRIVER

0114-0001



TORQUE LIMITER

0114-0026



OUTER COMPRESSOR

0114-0008



OUTER DISTRACTOR

0114-0009



DISTRACTOR SPACER

0114-0011



ROD MEASURER

0114-0022



**COUNTER TORQUE
WRENCH**

0114-0021



GUIDE WIRE REMOVAL

0114-0023



RING CUTTER

0107-0004



TAB BREAKER

0114-0007



ROD BENDER

0105-0033



REDUCTION CUTTER

0114-0027



POLY BONE SCREW FINAL DRIVER

0105-0021



MIS INSTRUMENT CONTAINER

0105-XXXX



MIS IMPLANT CONTAINER
0105-XXXX



★ IMPLANTS ★

POLY-AXIAL CANNULATED PEDICLE SCREW
LONG ARM, SEMI CLOSED TYPE 95MM



POLY-AXIAL CANNULATED PEDICLE SCREW
LONG ARM, SEMI CLOSED TYPE 120MM



STRAIGHT ROD



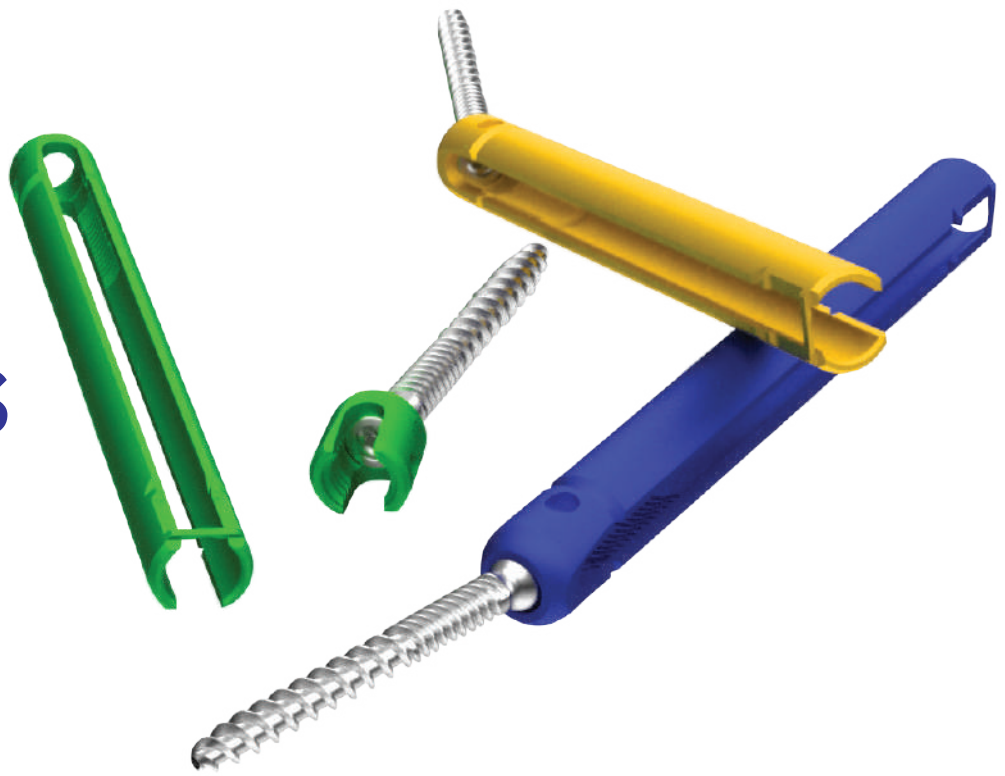
PRE-BENT RODS



NUT



IMPLANTS



LONG ARM POLY-AXIAL CANNULATED PEDICLE SCREW - SEMI CLOSED - 95MM

L. (mm)	Ø 5.0 (Optional)	Ø 5.5	Ø 6.0 (Optional)	Ø 6.5	Ø 7.0 (Optional)	Ø 7.5	Ø 8.0 (Optional)
25mm	1058-5025	1058-5525	1058-6025	1058-6525	1058-7025	1058-7525	1058-8025
30mm	1058-5030	1058-5530	1058-6030	1058-6530	1058-7030	1058-7530	1058-8030
35mm	1058-5035	1058-5535	1058-6035	1058-6535	1058-7035	1058-7535	1058-8035
40mm	1058-5040	1058-5540	1058-6040	1058-6540	1058-7040	1058-7540	1058-8040
45mm	1058-5045	1058-5545	1058-6045	1058-6545	1058-7045	1058-7545	1058-8045
50mm	1058-5050	1058-5550	1058-6050	1058-6550	1058-7050	1058-7550	1058-8050
55mm	1058-5055	1058-5555	1058-6055	1058-6555	1058-7055	1058-7555	1058-8055
60mm	1058-5060	1058-5560	1058-6060	1058-6560	1058-7060	1058-7560	1058-8060
65mm	1058-5065	1058-5565	1058-6065	1058-6565	1058-7065	1058-7565	1058-8065
70mm	1058-5070	1058-5570	1058-6070	1058-6570	1058-7070	1058-7570	1058-8070
75mm	1058-5075	1058-5575	1058-6075	1058-6575	1058-7075	1058-7575	1058-8075
80mm	-	-	1058-6080	1058-6580	1058-7080	1058-7580	1058-8080
85mm	-	-	-	1058-6585	1058-7085	1058-7585	1058-8085
90mm	-	-	-	1058-6590	1058-7090	1058-7590	1058-8090
95mm	-	-	-	1058-6595	1058-7095	1058-7595	1058-8095
100mm	-	-	-	1058-6510	1058-7010	1058-7510	1058-8010

LONG ARM POLY-AXIAL CANNULATED PEDICLE SCREW - SEMI CLOSED - 120MM

L. (mm)	Ø 5.0 (Optional)	Ø 5.5	Ø 6.0 (Optional)	Ø 6.5	Ø 7.0 (Optional)	Ø 7.5	Ø 8.0 (Optional)
25mm	1059-5025	1059-5525	1059-6025	1059-6525	1059-7025	1059-7525	1059-8025
30mm	1059-5030	1059-5530	1059-6030	1059-6530	1059-7030	1059-7530	1059-8030
35mm	1059-5035	1059-5535	1059-6035	1059-6535	1059-7035	1059-7535	1059-8035
40mm	1059-5040	1059-5540	1059-6040	1059-6540	1059-7040	1059-7540	1059-8040
45mm	1059-5045	1059-5545	1059-6045	1059-6545	1059-7045	1059-7545	1059-8045
50mm	1059-5050	1059-5550	1059-6050	1059-6550	1059-7050	1059-7550	1059-8050
55mm	1059-5055	1059-5555	1059-6055	1059-6555	1059-7055	1059-7555	1059-8055
60mm	1059-5060	1059-5560	1059-6060	1059-6560	1059-7060	1059-7560	1059-8060
65mm	1059-5065	1059-5565	1059-6065	1059-6565	1059-7065	1059-7565	1059-8065
70mm	1059-5070	1059-5570	1059-6070	1059-6570	1059-7070	1059-7570	1059-8070
75mm	1059-5075	1059-5575	1059-6075	1059-6575	1059-7075	1059-7575	1059-8075
80mm	-	-	1059-6075	1059-6580	1059-7080	1059-7580	1059-8080
85mm	-	-	-	1059-6585	1059-7085	1059-7585	1059-8085
90mm	-	-	-	1059-6590	1059-7090	1059-7590	1059-8090
95mm	-	-	-	1059-6595	1059-7095	1059-7595	1059-8095
100mm	-	-	-	1059-6510	1059-7010	1059-7510	1059-8010



LONG ARM POLY-AXIAL CANNULATED PEDICLE SCREW - SEMI CLOSED - 95MM

L. (mm)	Ø 5.0	Ø 5.5	Ø 6.0	Ø 6.5	Ø 7.0	Ø 7.5	Ø 8.0
25mm	1058-5025	1058-5525	1058-6025	1058-6525	1058-7025	1058-7525	1058-8025
30mm	1058-5030	1058-5530	1058-6030	1058-6530	1058-7030	1058-7530	1058-8030
35mm	1058-5035	1058-5535	1058-6035	1058-6535	1058-7035	1058-7535	1058-8035
40mm	1058-5040	1058-5540	1058-6040	1058-6540	1058-7040	1058-7540	1058-8040
45mm	1058-5045	1058-5545	1058-6045	1058-6545	1058-7045	1058-7545	1058-8045
50mm	1058-5050	1058-5550	1058-6050	1058-6550	1058-7050	1058-7550	1058-8050
55mm	1058-5055	1058-5555	1058-6055	1058-6555	1058-7055	1058-7555	1058-8055
60mm	1058-5060	1058-5560	1058-6060	1058-6560	1058-7060	1058-7560	1058-8060
65mm	1058-5065	1058-5565	1058-6065	1058-6565	1058-7065	1058-7565	1058-8065
70mm	1058-5070	1058-5570	1058-6070	1058-6570	1058-7070	1058-7570	1058-8070
75mm	1058-5075	1058-5575	1058-6075	1058-6575	1058-7075	1058-7575	1058-8075
80mm	-	-	1058-6080	1058-6580	1058-7080	1058-7580	1058-8080
85mm	-	-	-	1058-6585	1058-7085	1058-7585	1058-8085
90mm	-	-	-	1058-6590	1058-7090	1058-7590	1058-8090
95mm	-	-	-	1058-6595	1058-7095	1058-7595	1058-8095
100mm	-	-	-	1058-6510	1058-7010	1058-7510	1058-8010

LONG ARM POLY-AXIAL CANNULATED PEDICLE SCREW - SEMI CLOSED - 120MM

L. (mm)	Ø 5.0	Ø 5.5	Ø 6.0	Ø 6.5	Ø 7.0	Ø 7.5	Ø 8.0
25mm	1059-5025	1059-5525	1059-6025	1059-6525	1059-7025	1059-7525	1059-8025
30mm	1059-5030	1059-5530	1059-6030	1059-6530	1059-7030	1059-7530	1059-8030
35mm	1059-5035	1059-5535	1059-6035	1059-6535	1059-7035	1059-7535	1059-8035
40mm	1059-5040	1059-5540	1059-6040	1059-6540	1059-7040	1059-7540	1059-8040
45mm	1059-5045	1059-5545	1059-6045	1059-6545	1059-7045	1059-7545	1059-8045
50mm	1059-5050	1059-5550	1059-6050	1059-6550	1059-7050	1059-7550	1059-8050
55mm	1059-5055	1059-5555	1059-6055	1059-6555	1059-7055	1059-7555	1059-8055
60mm	1059-5060	1059-5560	1059-6060	1059-6560	1059-7060	1059-7560	1059-8060
65mm	1059-5065	1059-5565	1059-6065	1059-6565	1059-7065	1059-7565	1059-8065
70mm	1059-5070	1059-5570	1059-6070	1059-6570	1059-7070	1059-7570	1059-8070
75mm	1059-5075	1059-5575	1059-6075	1059-6575	1059-7075	1059-7575	1059-8075
80mm	-	-	1059-6075	1059-6580	1059-7080	1059-7580	1059-8080
85mm	-	-	-	1059-6585	1059-7085	1059-7585	1059-8085
90mm	-	-	-	1059-6590	1059-7090	1059-7590	1059-8090
95mm	-	-	-	1059-6595	1059-7095	1059-7595	1059-8095
100mm	-	-	-	1059-6510	1059-7010	1059-7510	1059-8010



NUT

1520-0001



STRAIGHT ROD

L. (mm)	Reference
25mm	1527-5525
30mm	1527-5530
35mm	1527-5535
40mm	1027-5540
45mm	1027-5545
50mm	1027-5550
60mm	1027-5560
70mm	1027-5570
80mm	1027-5580
90mm	1027-5590
100mm	1027-5510
110mm	1027-5511
120mm	1027-5512
130mm	1027-5513
140mm	1027-5514
160mm	1027-5516
180mm	1027-5518
200mm	1027-5520



PRE-BENT RODS

L. (mm)	Reference
25mm	1527-5525
30mm	1527-5530
35mm	1527-5535
40mm	1027-5540
45mm	1027-5545
50mm	1027-5550
60mm	1027-5560
70mm	1027-5570
80mm	1027-5580
90mm	1027-5590
100mm	1027-5510
110mm	1027-5511
120mm	1027-5512
130mm	1027-5513
140mm	1027-5514
160mm	1027-5516
180mm	1027-5518
200mm	1027-5520



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Plant

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