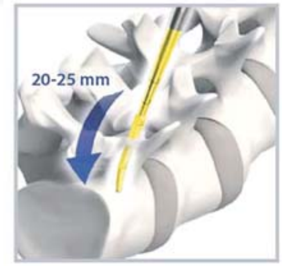
Response™
Spine System

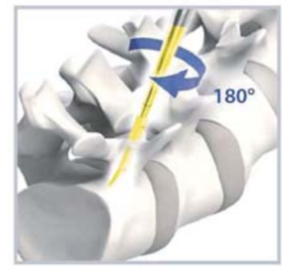
System Overview

Worldwide Leader in Pediatric Orthopedics

1 Pedicle Preparation

- Create a 3mm deep posterior cortical breach with the Pedicle Awl or burr. Grip the side of the handle to avoid applying too much pressure.
- Insert the tip approximately 20-25mm.
- Orient the probe so that the flat surface of the probe is in the same plane as the curve of the pedicle, then remove the probe to reorient it so that the tip points medially.
- Carefully place the probe into the base of the prior hole and use the instruments markings to advance the probe to the desired depth.
- Rotate the probe 180° to ensure adequate room for screw.





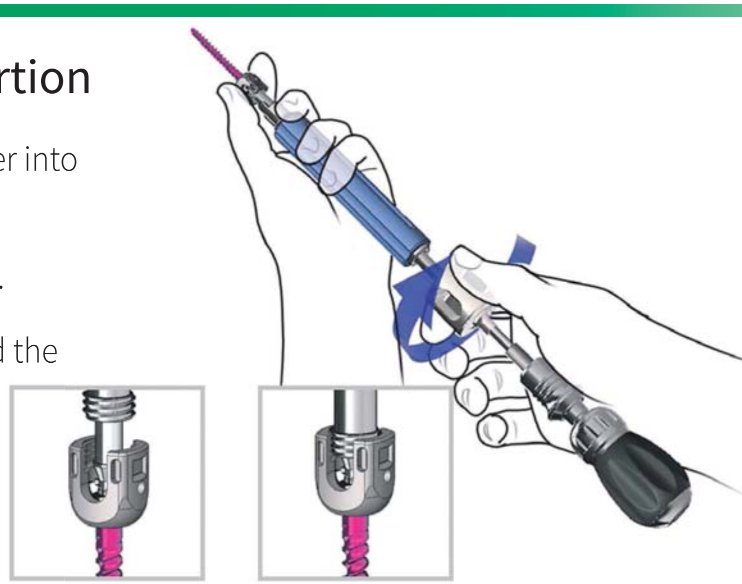
2 Feeler Probe and Tap

- Advance the feeler probe to the floor of the hole to confirm five bony borders (floor and four walls).

Tap Sizing	
Screw Size	**Tap Size**
4mm Screw	3mm Tap
5mm Screw	4mm Tap
6mm Screw	5mm Tap
7mm Screw	6mm Tap

3 Pedicle Screw Insertion

- Place the hexalobe tip of the driver into the screw.
- Engage the hex with the driver tip.
- Turn the threading knob to thread the driver to the screw.



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Read and understand indications, warnings, and adverse effects explained in IFU's prior to use.

4 Rod Reduction Options

Tower

- Snap-fit the rod reduction tower by pushing down over the top of the screw head.
- To reduce the rod, use the hex adapter to turn the hexagonal knob clockwise.
- After the rod has been reduced and the set screw provisionally tightened, the Rod Reduction Tower may be removed from the screw head. Turn the hexagonal knob counter clockwise a few turns, then pull up on the medial collar to disengage from the screw head.

Gun Style

- Attach the gun style reducer over the top of the screw head and click 4 times to lock onto the screw head. Continue clicking to engage the rod into the head of the screw.
- To remove, pull back on the release trigger.

5 Deformity Correction

- Once the contoured rod and all of the set screws have been placed, the rod is ready to rotated into final position.
- The rotation is done with two rod holders and is done slowly in order to prevent rapid neurological changes or injury to the spinal cord.

6 Coupled Derotation

a.

- Snap-fit to engage the Rod Reduction towers to each pedicle screw per the vertebral bodies to be manipulated.

b.

- Assemble the Multi Segment rotation handles to the Rod Reduction towers.
- Pass the handle over and lock over the collar of the Rod Reduction tower

c.

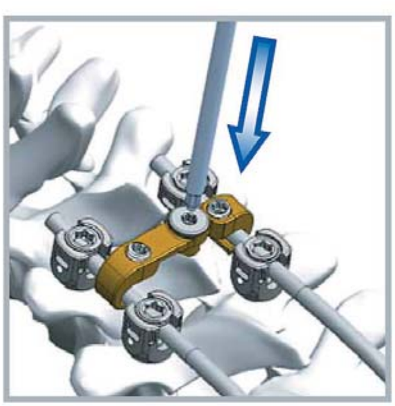
- Derotate the spine by manipulating the construct. With continued derotation and translational forces applied by the triangulated constructs.

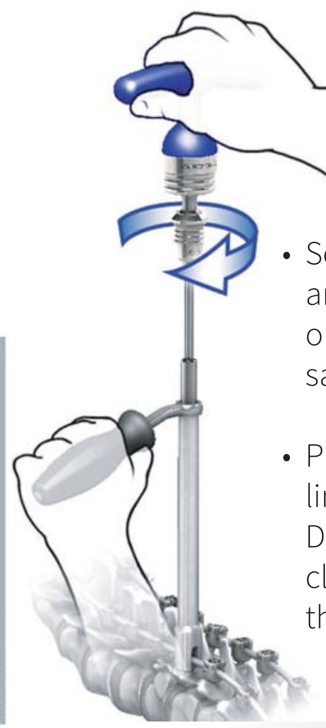
d.

- Position the multi segment handles parallel to each other.
- Insert multi segment rotation pin through the slots in the handles. *The pins may be offset to accomodate possible differing orientation of the towers relative to the vertebral body.*

7 Cross Connector Insertion & Final Tightening

- Capture both rods and confirm placement. Place Small Set Screws using the Small Set Screw Starter. Provisionally tighten using the Small Set Screw Driver to secure the connector to the rods.
- For final tightening, seat the Counter Torque Tube and the Small Set Screw Driver onto the connector, rod and set screw.
- Turn the Green T-handle until an audible click is heard (50 in-lbs), indicating that proper torque has been met.





- Seat the counter torque wrench and the set screw driver shaft onto the open pedicle screw, saddle, and set screw.
- Place the blue set screw torque limiter T Handle (82in-lbs) on the Driver Shaft, and turn the handle clockwise while firmly holding the Counter torque wrench.

Implant Ordering Information

4.0mm

5.0mm

6.0mm

7.0mm

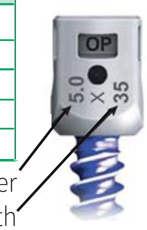
Polyaxial Screws	
4.0mm x 20mm	00-1003-4066
4.0mm x 25mm	00-1003-4067
4.0mm x 30mm	00-1003-4068
4.0mm x 35mm	00-1003-4069
4.0mm x 40mm	00-1003-4070
5.0mm x 20mm	00-1003-4099
5.0mm x 25mm	00-1003-4100
5.0mm x 30mm	00-1003-4101
5.0mm x 35mm	00-1003-4102
5.0mm x 40mm	00-1003-4103
5.0mm x 45mm	00-1003-4104
5.0mm x 50mm	00-1003-4105
5.0mm x 55mm	00-4003-4106
6.0mm x 30mm	00-1003-4135
6.0mm x 35mm	00-1003-4136
6.0mm x 40mm	00-1003-4137
6.0mm x 45mm	00-1003-4138
6.0mm x 50mm	00-1003-4139
6.0mm x 55mm	00-1003-4140
7.0mm x 35mm	00-1003-4170
7.0mm x 40mm	00-1003-4171
7.0mm x 45mm	00-1003-4172
7.0mm x 50mm	00-1003-4173
7.0mm x 55mm	00-1003-4174
7.0mm x 60mm	00-1003-4175
7.0mm x 65mm	00-1003-4176
7.0mm x 70mm	00-1003-4177
7.0mm x 75mm	00-1003-4178
7.0mm x 80mm	00-1003-4179

Uniaxial Screws	
4.0mm x 20mm	00-1003-4318
4.0mm x 25mm	00-1003-4319
4.0mm x 30mm	00-1003-4320
4.0mm x 35mm	00-1003-4321
4.0mm x 40mm	00-1003-4322
5.0mm x 20mm	00-1003-4351
5.0mm x 25mm	00-1003-4352
5.0mm x 30mm	00-1003-4353
5.0mm x 35mm	00-1003-4354
5.0mm x 40mm	00-1003-4355
5.0mm x 45mm	00-1003-4356
5.0mm x 50mm	00-1003-4357
5.0mm x 55mm	00-1003-4358
6.0mm x 30mm	00-1003-4387
6.0mm x 35mm	00-1003-4388
6.0mm x 40mm	00-1003-4389
6.0mm x 45mm	00-1003-4390
6.0mm x 50mm	00-1003-4391
6.0mm x 55mm	00-1003-4392
7.0mm x 35mm	00-1003-4422
7.0mm x 40mm	00-1003-4423
7.0mm x 45mm	00-1003-4424
7.0mm x 50mm	00-1003-4425

Fixed Angled Screws	
4.0mm x 20mm	00-1003-5066
4.0mm x 25mm	00-1003-5067
4.0mm x 30mm	00-1003-5068
4.0mm x 35mm	00-1003-5069
4.0mm x 40mm	00-1003-5070
5.0mm x 20mm	00-1003-5099
5.0mm x 25mm	00-1003-5100
5.0mm x 30mm	00-1003-5101
5.0mm x 35mm	00-1003-5102
5.0mm x 40mm	00-1003-5103
5.0mm x 45mm	00-1003-5104
5.0mm x 50mm	00-1003-5105
5.0mm x 55mm	00-1003-5106
6.0mm x 30mm	00-1003-5135
6.0mm x 35mm	00-1003-5136
6.0mm x 40mm	00-1003-5137
6.0mm x 45mm	00-1003-5138
6.0mm x 50mm	00-1003-5139
6.0mm x 55mm	00-1003-5140
7.0mm x 35mm	00-1003-5174
7.0mm x 40mm	00-1003-5175
7.0mm x 45mm	00-1003-5176
7.0mm x 50mm	00-1003-5177

Polyaxial

Uniaxial



Set Screw

Large	00-1003-4001

Used In: Pedicle Screws, Open Hooks

Small	00-1003-3012

Used In: Closed Hooks, Lateral Connectors, Inline Connectors, Wedding Band Connectors, Domino Connectors

Inline Connector
00-1003-3050

Cross Connector Assembly

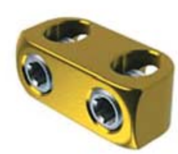
XS	00-1003-3041
S	00-1003-3043
M	00-1003-3045
L	00-1003-3047
XL	00-1003-3049

Cobalt Chrome Rod (CoCr)

5.50mm x 500mm	00-1003-6001
5.50mm x 600mm	00-1003-6003

Titanium Rod (Ti)

5.50mm x 500mm	00-1003-6004



Wedding Band Connector
00-1003-3055

Fixed Cross Connector Assembly

14mm	00-1003-3086
16mm	00-1003-3087
18mm	00-1003-3088
20mm	00-1003-3089
22mm	00-1003-3090
24mm	00-1003-3091
26mm	00-1003-3092
28mm	00-1003-3093
30mm	00-1003-3094
32mm	00-1003-3095
34mm	00-1003-3096
36mm	00-1003-3097

Closed Lateral Connector

20mm	00-1003-3065
30mm	00-1003-3066
40mm	00-1003-3067
60mm	00-1003-3068

Domino Connector
00-1003-3054

Implant Ordering Information

Closed Pedicle Hook, 5.0mm	00-1003-3099
Closed Pedicle Hook, 6.5mm	00-1003-3100
Closed Pedicle Hook, 8mm	00-1003-3101
Closed Pedicle Hook, 11mm	00-1003-3102
Closed Pedicle Hook, 9.5mm	00-1003-3103

Open Pedicle Hook, 5.0mm	00-1003-3149
Open Pedicle Hook, 6.5mm	00-1003-3150
Open Pedicle Hook, 8mm	00-1003-3151
Open Pedicle Hook, 11mm	00-1003-3152
Open Pedicle Hook, 9.5mm	00-1003-3153

Closed Laminar Hook, 5.0mm Narrow	00-1003-3199
Closed Laminar Hook, 6.5mm, Narrow	00-1003-3200
Closed Laminar Hook, 8mm, Narrow	00-1003-3201
Closed Laminar Hook, 9.5mm Narrow	00-1003-3206
Closed Laminar Hook, 11mm, Narrow	00-1003-3202

Closed Laminar Hook, 5.0mm Wide	00-1003-3207
Closed Laminar Hook, 6.5mm, Wide	00-1003-3203
Closed Laminar Hook, 8mm, Wide	00-1003-3204
Closed Laminar Hook, 9.5mm Wide	00-1003-3208
Closed Laminar Hook, 11mm, Wide	00-1003-3205

Open Laminar Hook, 5.0mm, Narrow	00-1003-3249
Open Laminar Hook, 6.5mm, Narrow	00-1003-3250
Open Laminar Hook, 8mm, Narrow	00-1003-3251
Open Laminar Hook, 9.5mm, Narrow	00-1003-3256
Open Laminar Hook, 11mm, Narrow	00-1003-3252

Open Laminar Hook, 5.0mm, Wide	00-1003-3257
Open Laminar Hook, 6.5mm, Wide	00-1003-3253
Open Laminar Hook, 8mm, Wide	00-1003-3254
Open Laminar Hook, 9.5mm, Wide	00-1003-3258
Open Laminar Hook, 11mm, Wide	00-1003-3255

Open Thoracic Hook, 6.5mm, Narrow	00-1003-3260
Open Thoracic Hook, 8.0mm, Narrow	00-1003-3261
Open Thoracic Hook, 9.5mm, Narrow	00-1003-3262

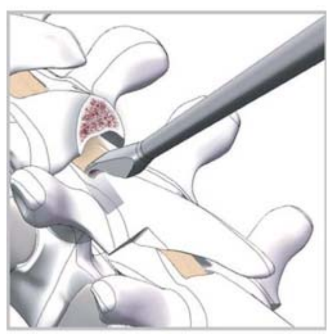
Open Thoracic Hook, 6.5mm, Wide	00-1003-3265
Open Thoracic Hook, 8.0mm, Wide	00-1003-3266
Open Thoracic Hook, 9.5mm, Wide	00-1003-3267

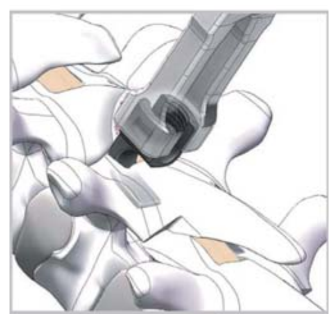
Open Left Offset Thoracic Hook	00-1003-3300
Open Right Offset Thoracic Hook	00-1003-3301

Open Left Offset Lumbar Hook	00-1003-3302
Open Right Offset Lumbar Hook	00-1003-3303

The RESPONSE™ Spine System offers top loading open and closed hooks of different anatomic shapes and sizes. The surgeon must choose the appropriate hook based on the individual patient's anatomy, deformity degree and type, method of correction chosen, and amount of compression/distraction that will be needed to provide proper and stable purchase of the implants.

Several different instruments can be used for hook insertion. The Straight or Lateral Implant Holder combined with the Hook Pusher.





Indications: The RESPONSE Spine System is intended for posterior, non-cervical fixation (pedicle screw fixation T1-S2/ilium and hook fixation (T1-L5)) in pediatric patients is indicated as an adjunt to fusion to treat adolescent idiopathic scoliosis. The device is intended to be used with autograft and/or allograft.

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Instructions For Use (IFU), cleaning instructions, and surgical techniques may be obtained by calling OrthoPediatrics® Customer Service at 574-268-6379. Read and understand indications, warnings, and adverse effects explained in IFU's prior to use.

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