

# S<sup>4</sup> ELEMENT OPEN



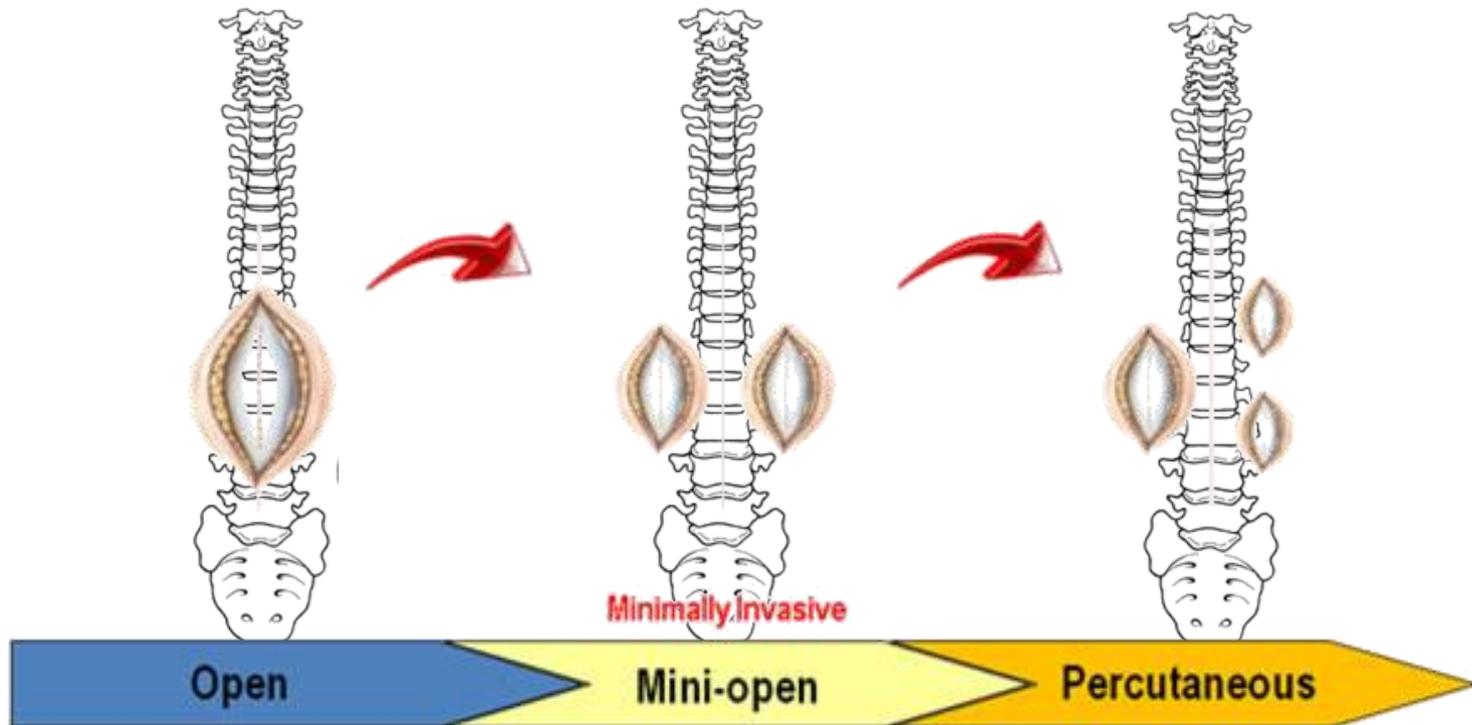
## S<sup>4</sup> Element - Indicações

Sistema de baixo perfil para fixação de pedículo toracolombar

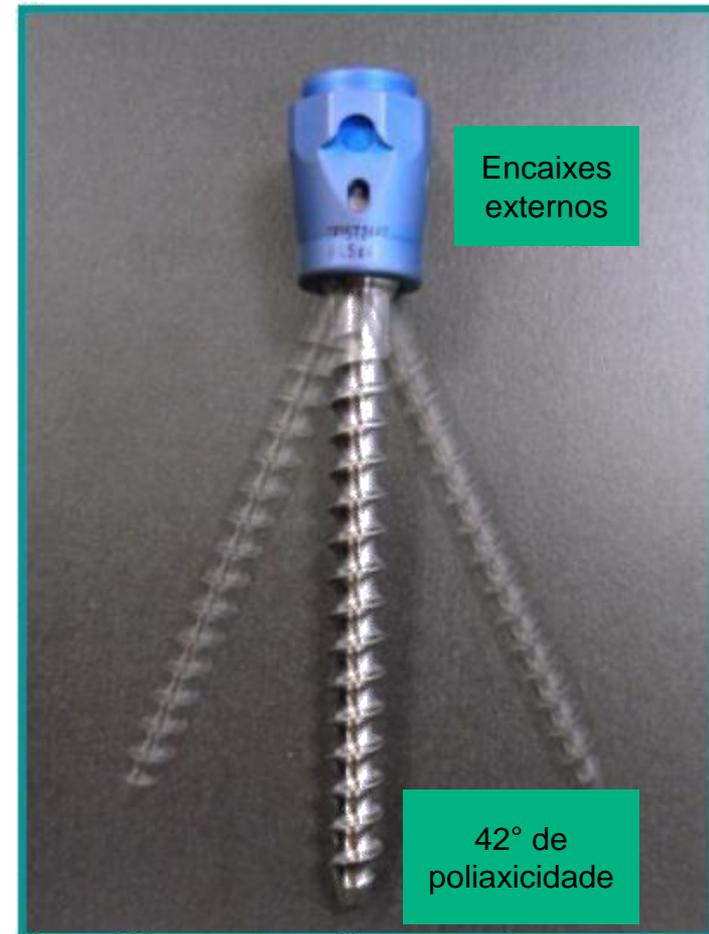
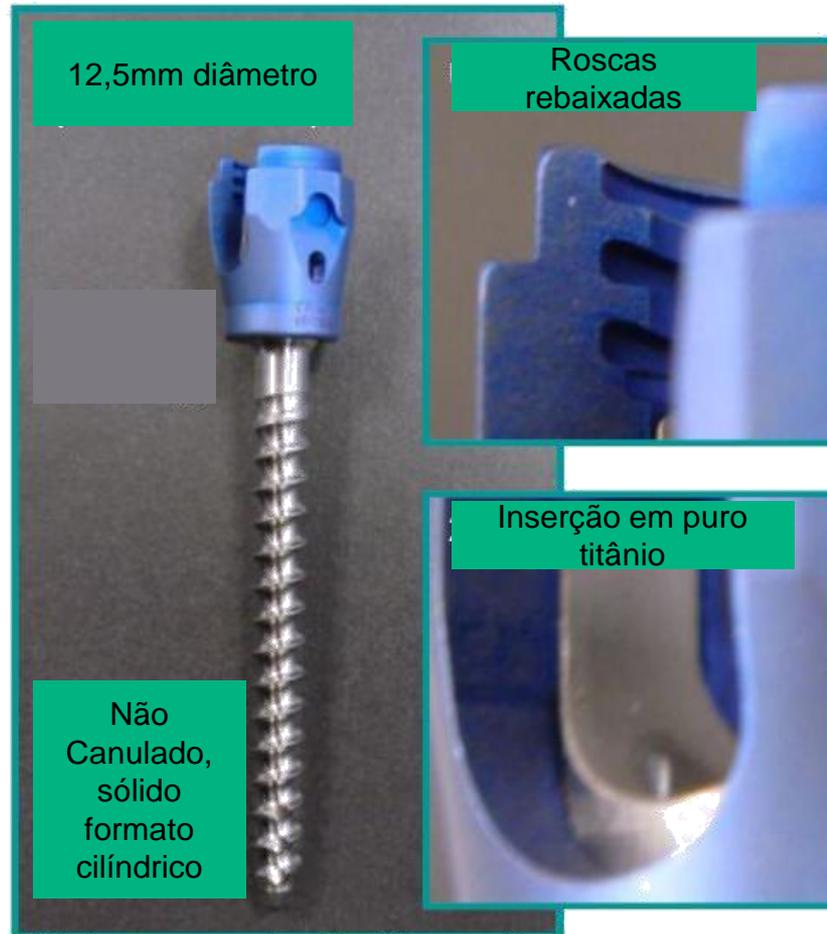
- Doenças degenerativas do disco
- Trauma ( fraturas e luxações )
- Estenose de Canal
- Deformidades ( Escoliose )
- Tumor
- Pseudoartrode



# S<sup>4</sup> Element – Abordagem



## S<sup>4</sup> Element – Características do Parafuso



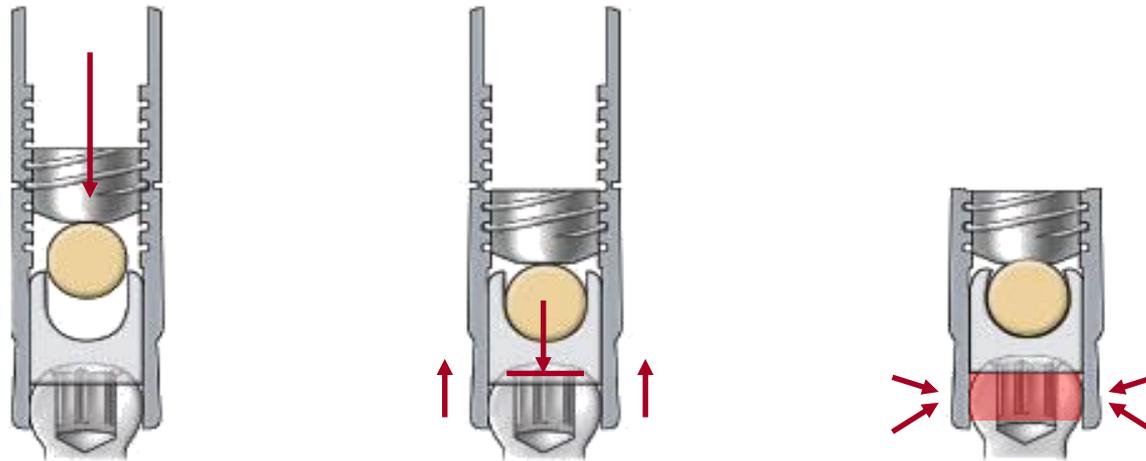
## S<sup>4</sup> Element – Simples e Fácil



- Encaixes desenvolvidos para facilitar o manuseio de instrumentais nos ajustes do Sistema.



## S<sup>4</sup> Element – Estável e Seguro



O parafuso por dentro tem um formato de puro titânio, onde encaixa perfeitamente a Haste

Ao apertar a porca há uma força que comprime contra o osso e o Sistema “devolve” essa força pra cima.

No aperto final a haste já está completamente encaixada, existe uma compressão na cabeça do parafuso.

S<sup>4</sup> & S<sup>4</sup> Element possui esse Sistema de fixação Pedicular que mantém força e estabilidade, oferecendo um perfil baixo.

# S<sup>4</sup> Element – Implantes



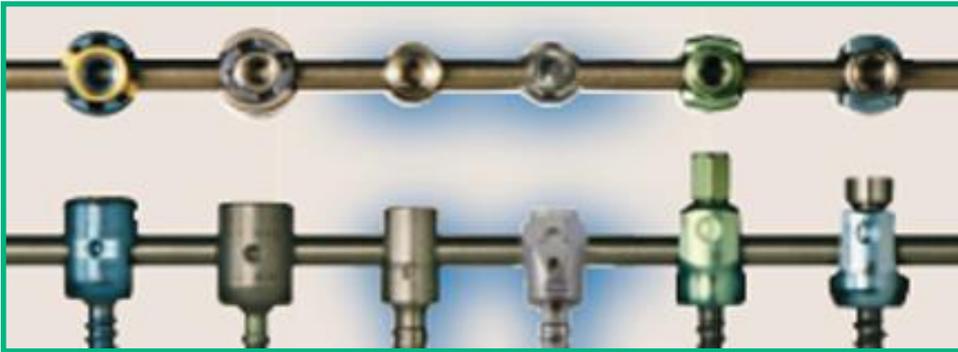
Parafuso Poliaxial  
e Monoaxial

| Diameter  |   | Lengths<br>(in 5mm increments) |
|---|---|--------------------------------|
|  4.5 |  5.0 | 25-50                          |
|  6.0 |  7.0 | 25-60                          |
|  8.0 |   | 30-60                          |



Uma única rosca para todos os Parafusos Pediculares

## S<sup>4</sup> Element – Comparativo



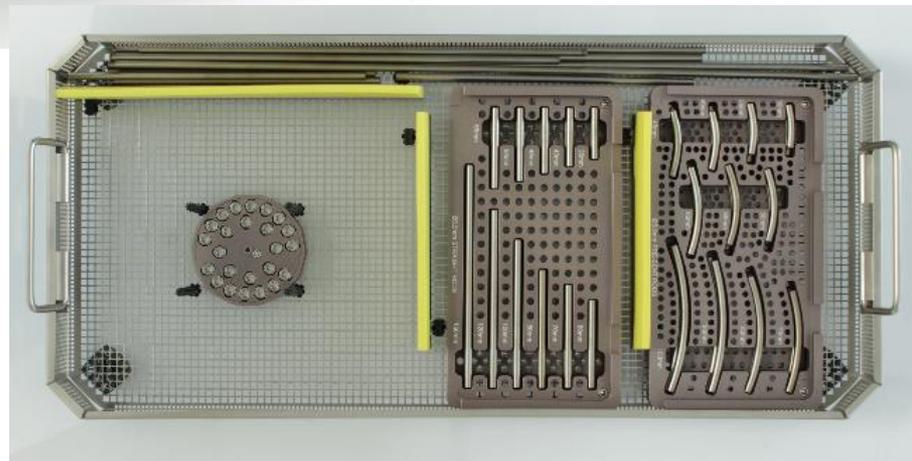
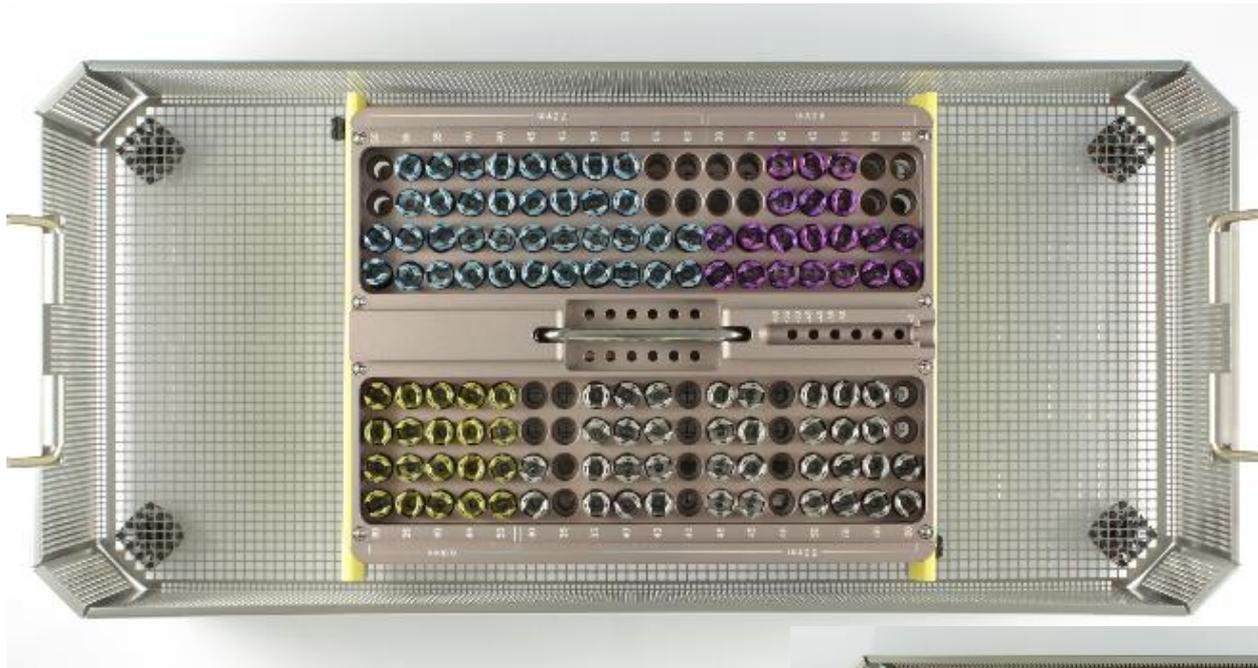
S<sup>4</sup> = 10.5mm

S<sup>4</sup> Element = 12.5mm

|                                | S <sup>4</sup> | Element | Competition |
|--------------------------------|----------------|---------|-------------|
| Diâmetro do cabeça do Parafuso | 10.5mm         | 12.5mm  | 12 – 15mm*  |
| Altura total                   | 15.5mm         | 16mm    | 15 – 18mm*  |
| Altura acima da haste          | 4mm            | 4mm     | 3.5 – 6mm*  |

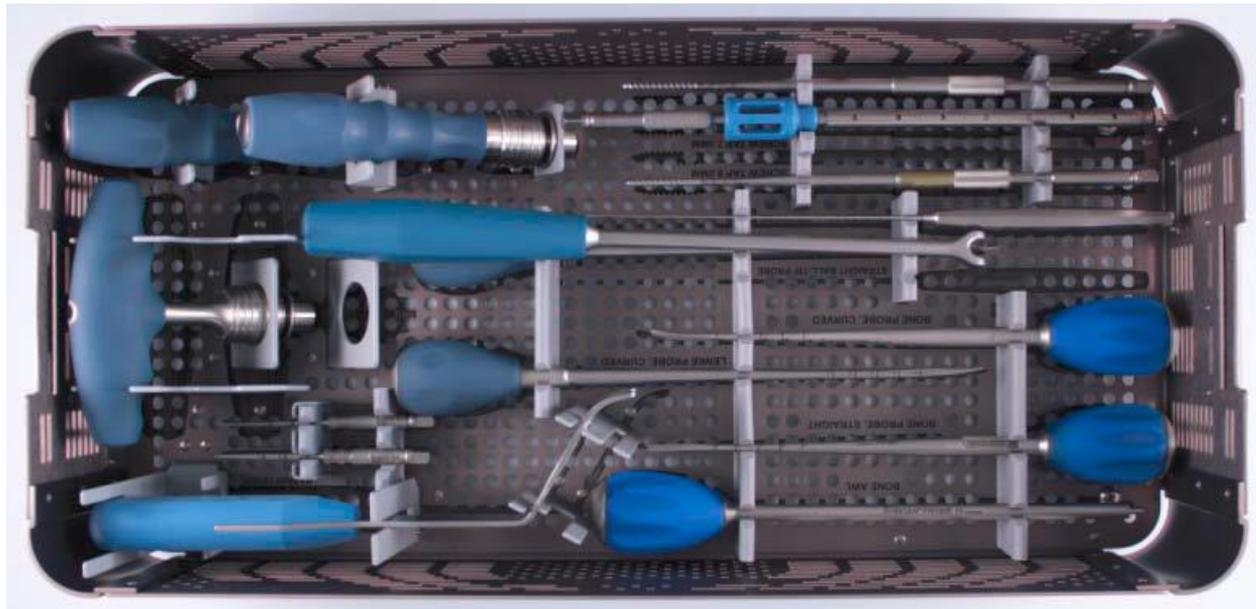
\* Based on published competitive literature

# S<sup>4</sup> Element – Set de Implantes



## S<sup>4</sup> Element – Simples e Seguro

- Instrumentais são intuitivos
- Bandeja organizada conforme os passos da Cirurgia.



# S<sup>4</sup> Element – Implantes

| Hastes em Titânio 5,5mm   |              |   |
|---|--------------|---|
|  <p><b>Retas</b></p>         | 35mm – 60mm  | 5mm increments  |
|   | 60mm – 80mm  | 10mm increments                                       |
|   | 80mm – 120mm | 20mm increments                                       |
|   | Extra Long   | 120mm, 150mm, 180mm,<br>200mm, 300mm, 400mm,<br>500mm |
|  <p><b>Pré-Moldadas</b></p> | 30mm – 60mm  | 5mm increments  |
|   | 60mm – 100mm | 10mm increments                                       |

# S<sup>4</sup> Element – Implantes

## Cross- Link



**Rigid**

21mm, 25mm, 29mm, 32mm,  
35mm, 38mm, 41mm

**Adjustable**

43-49mm, 49-60mm, 60-75mm

## Cross- Link Articulados



**Rigid**

28mm, 30mm, 32mm, 34mm

**Adjustable**

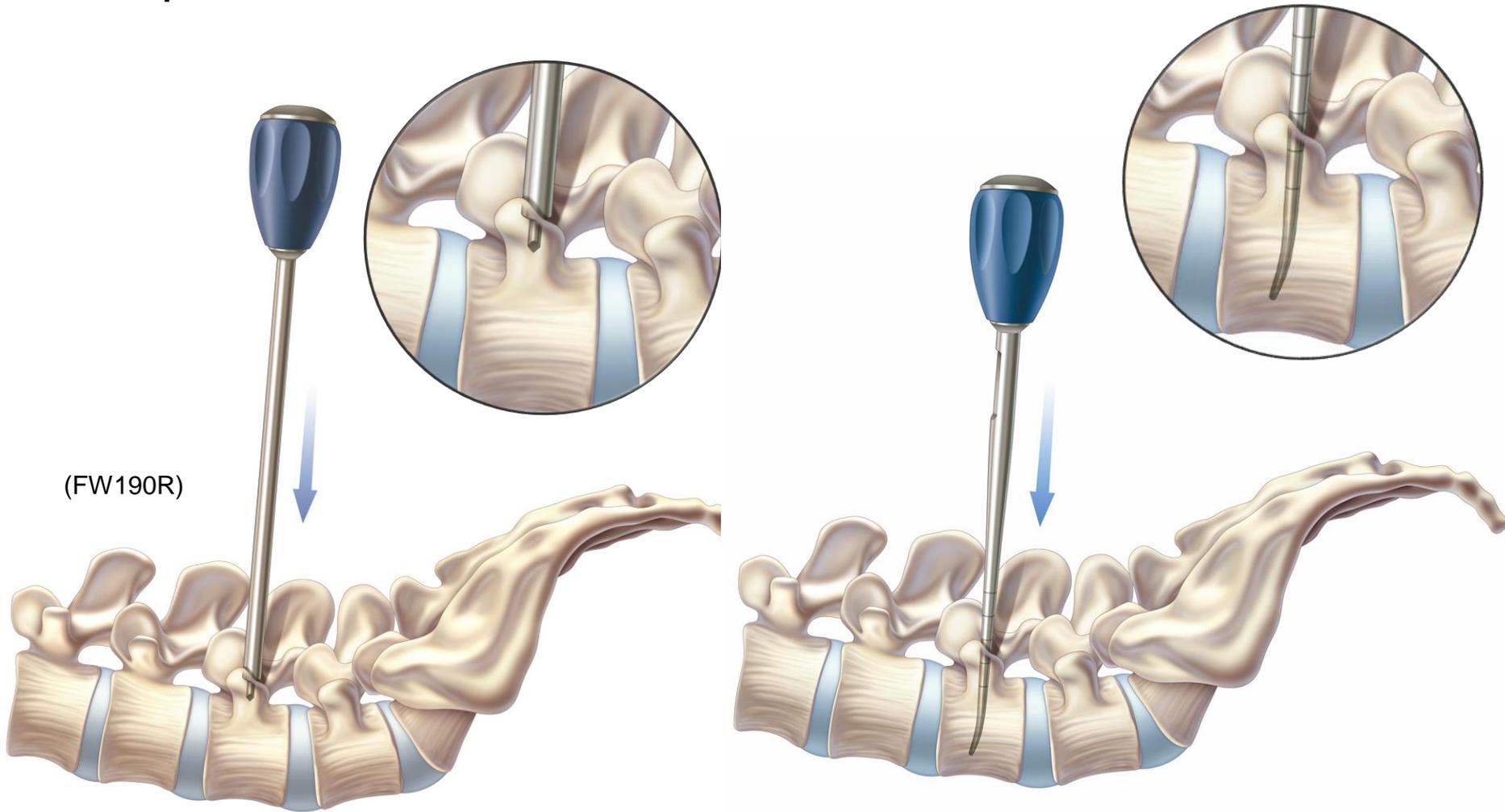
35-36mm, 36-38mm, 38-42mm,  
42-50mm, 50-60mm, 60-77mm,  
77-107mm

# S<sup>4</sup> ELEMENT OPEN

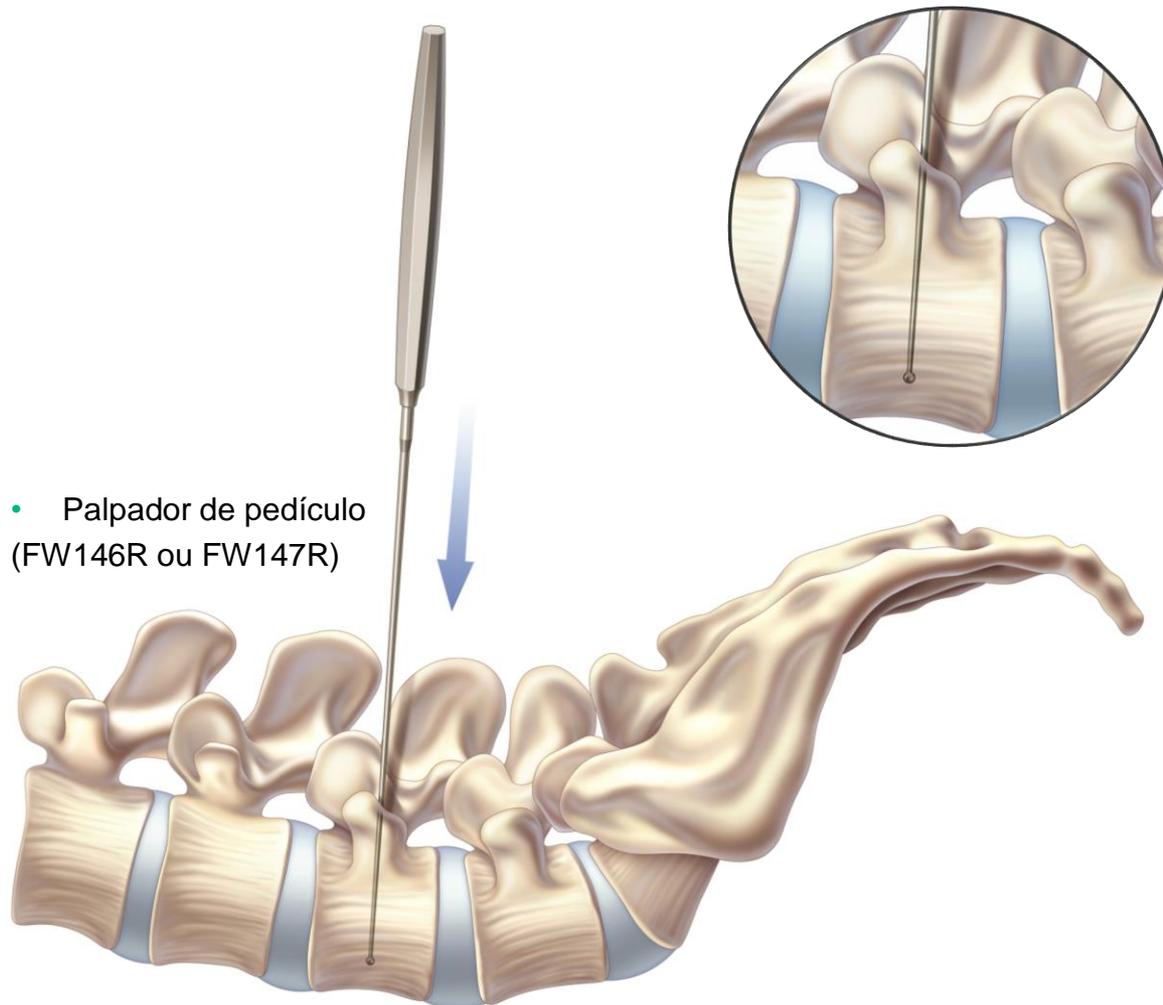
## TÉCNICA CIRÚRGICA



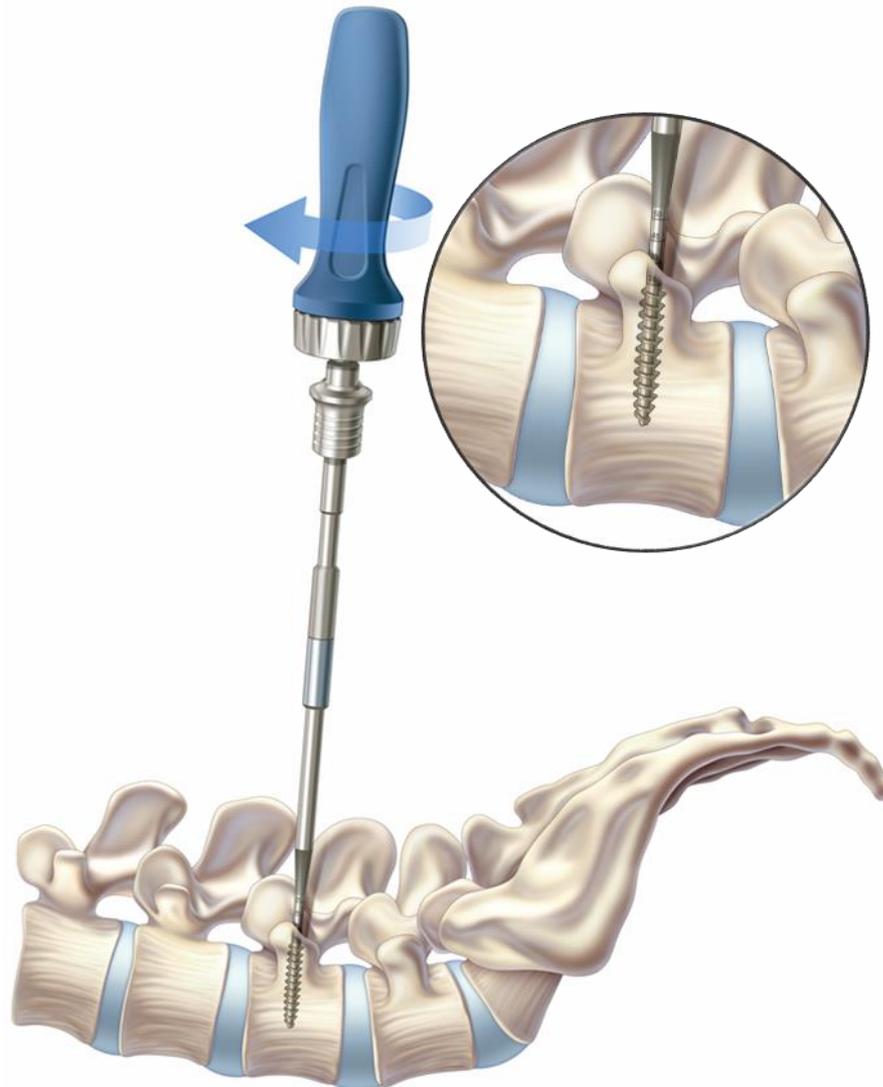
# Preparando o Pedículo



# Palpador de Pedículo



# Machear



FW194R



FW195R



FW196R

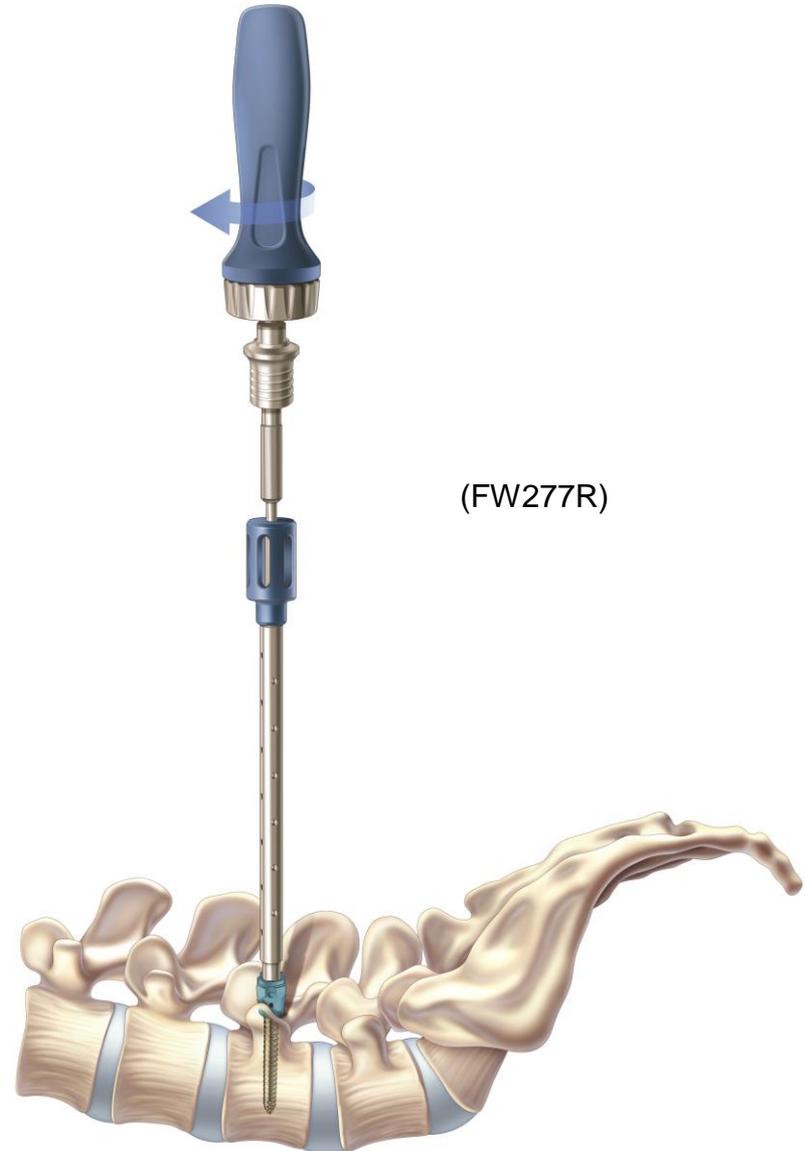
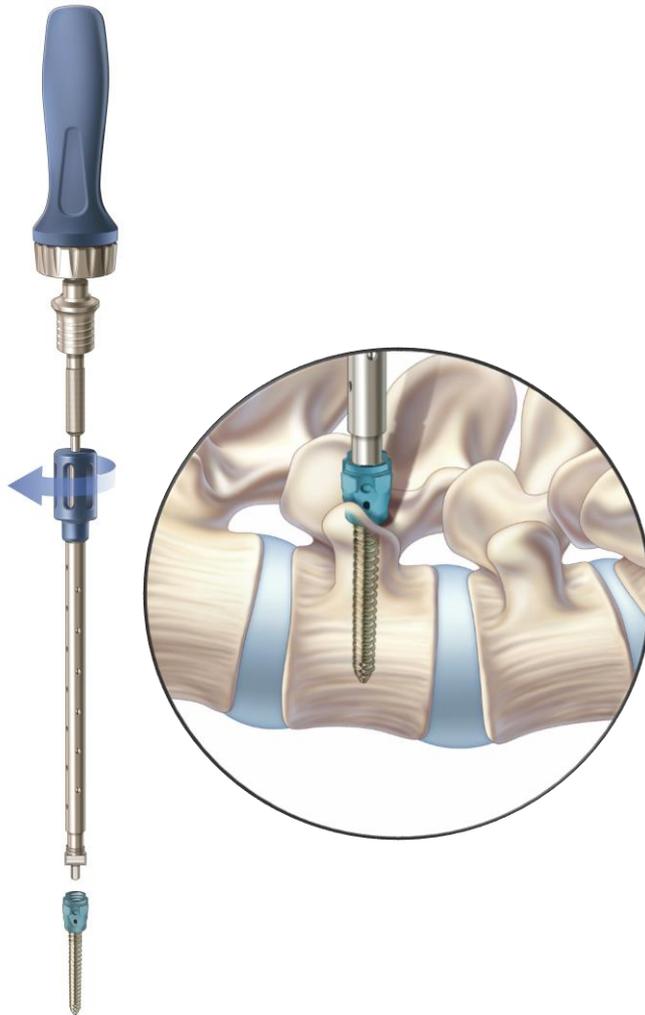


FW197R

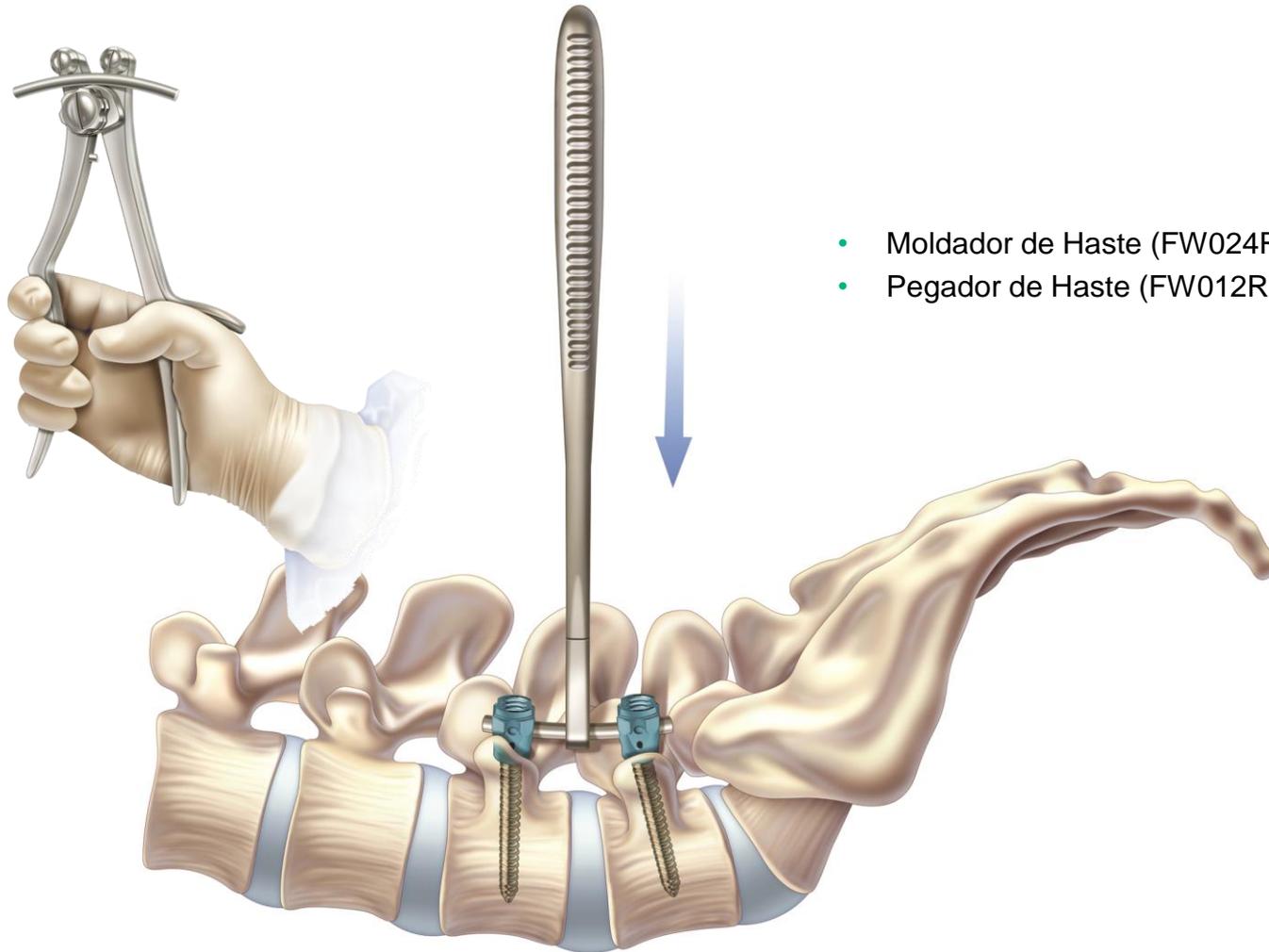


FW198R

# Fixando o Parafuso

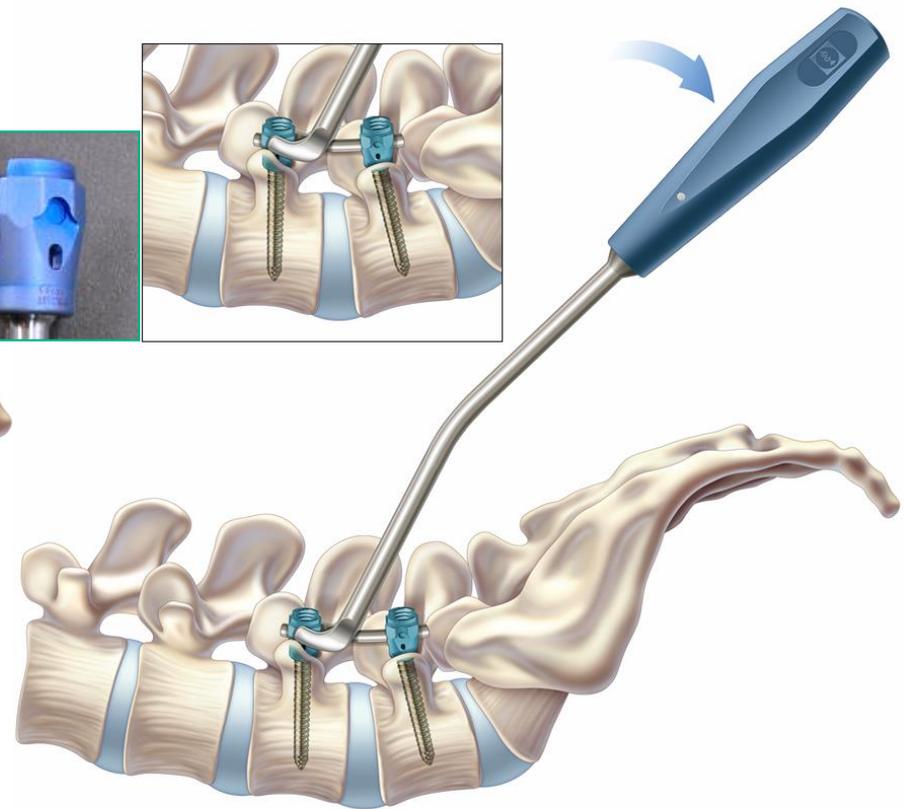
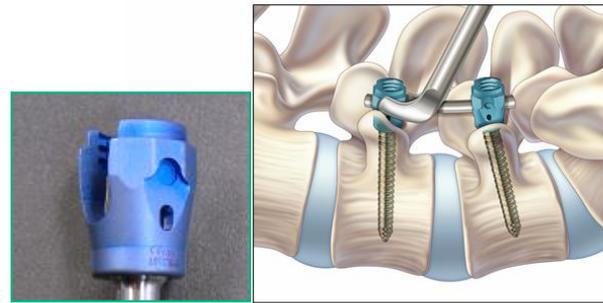
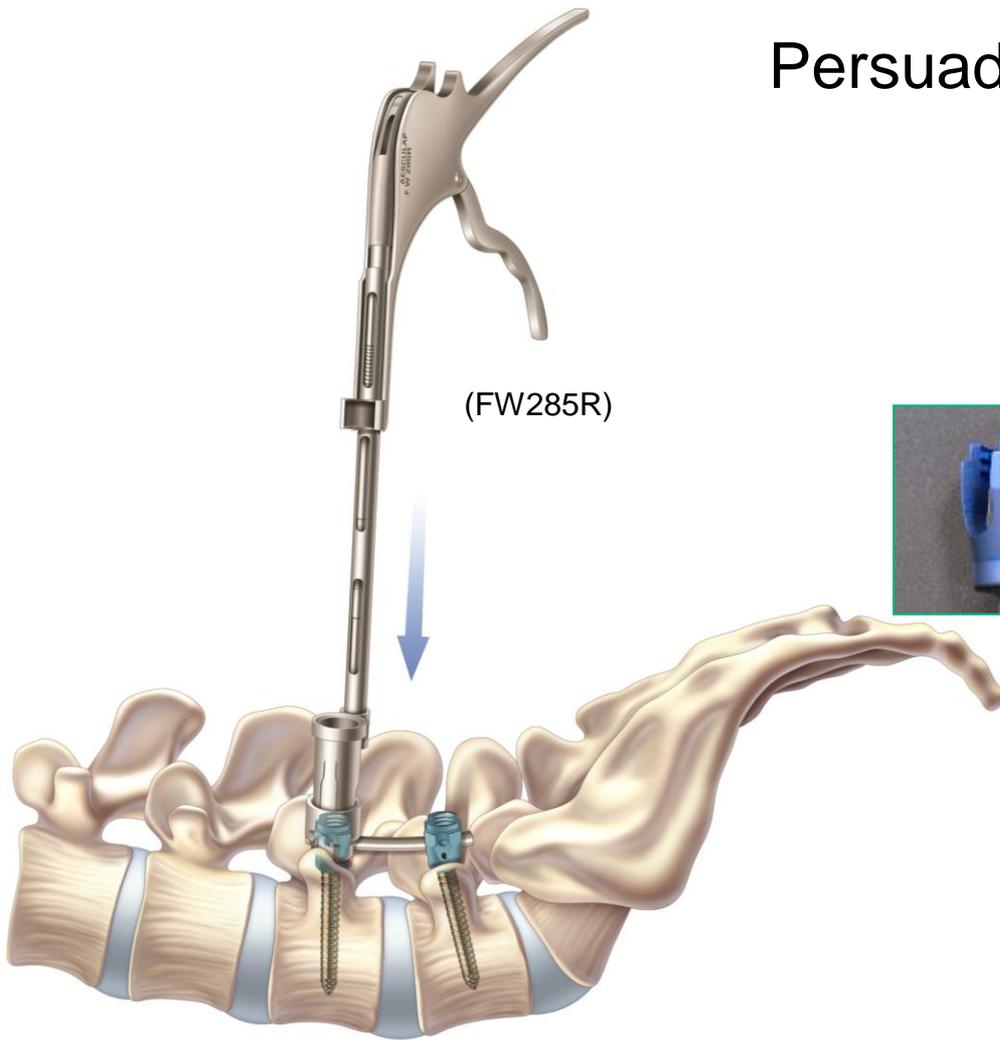


(FW277R)

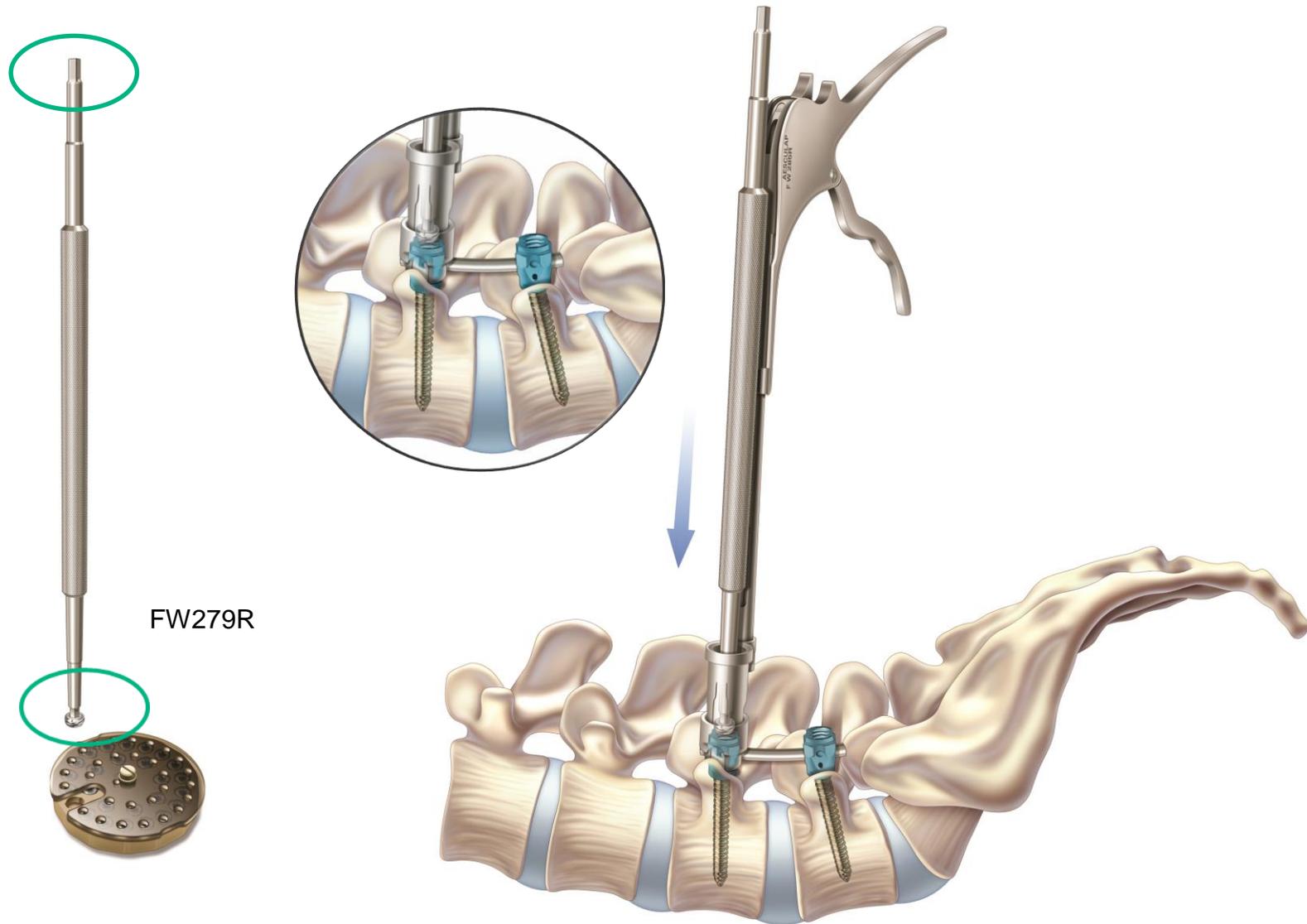


- Moldador de Haste (FW024R)
- Pegador de Haste (FW012R)

# Persuader

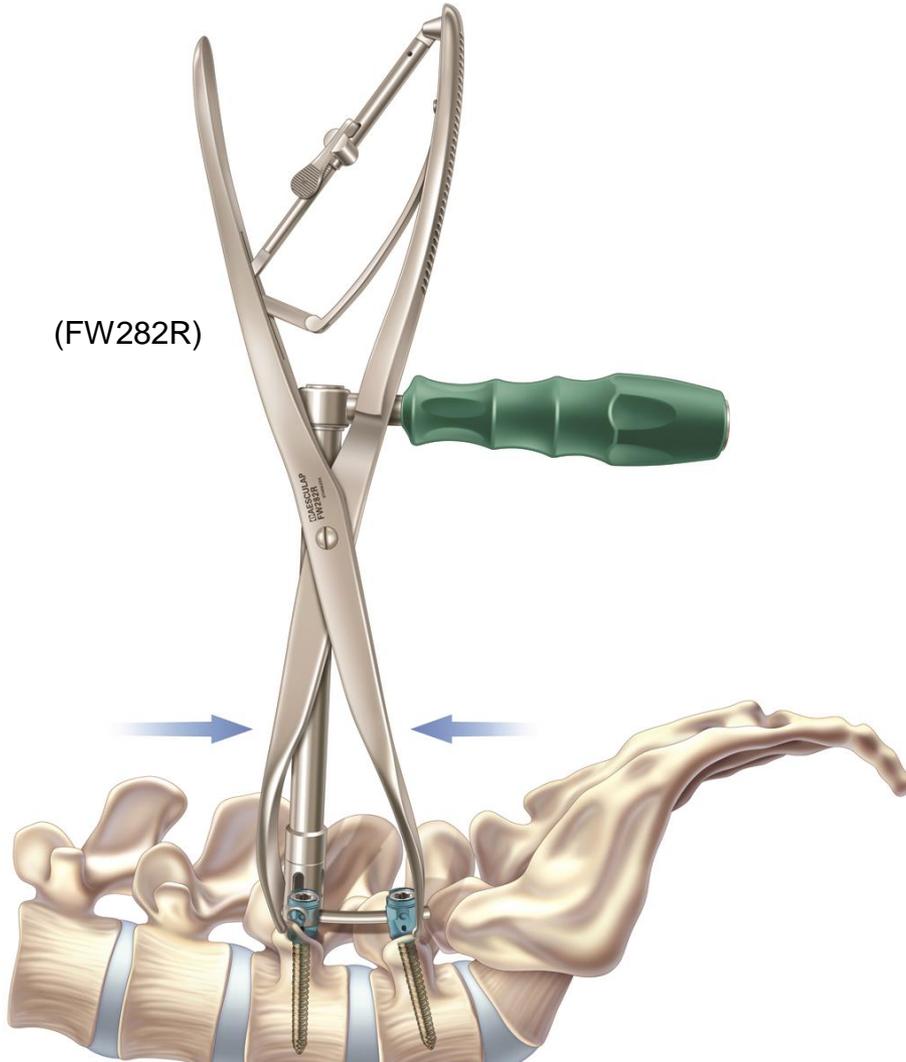


# Parafuso de Bloqueio



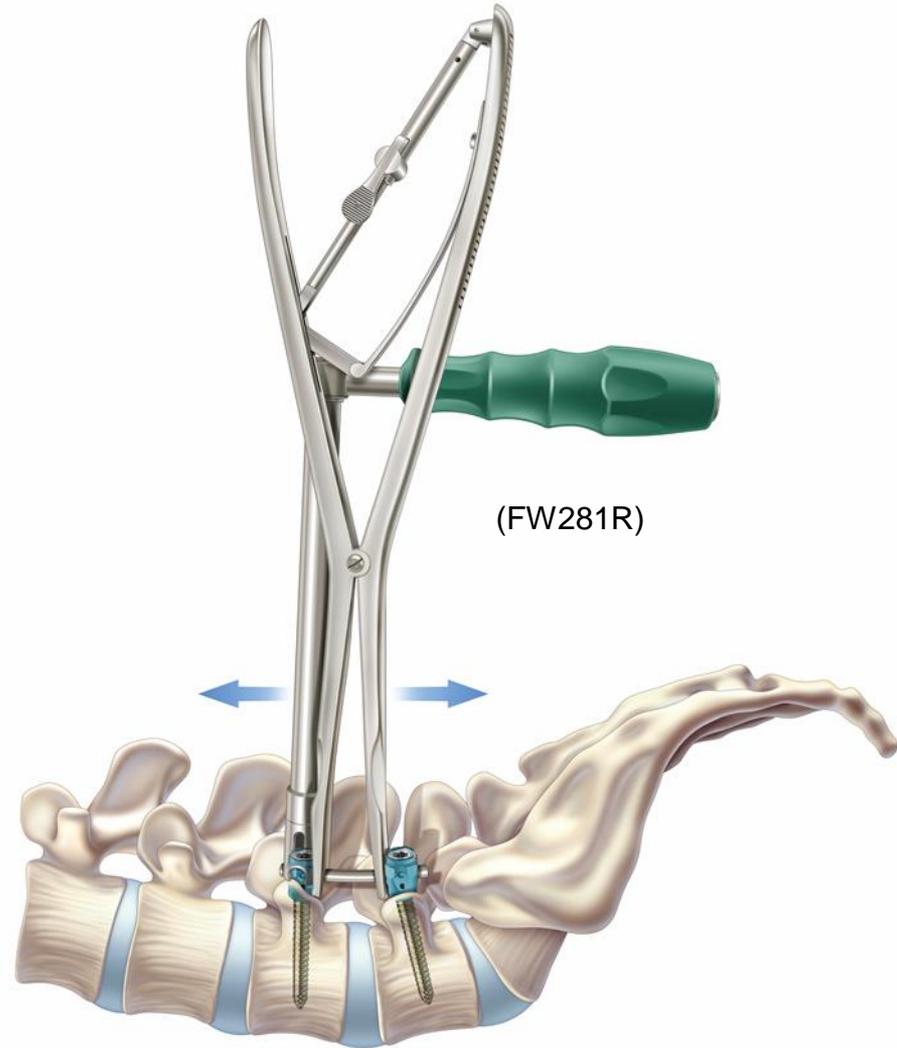
# Compressor

(FW282R)



# Distractor

(FW281R)

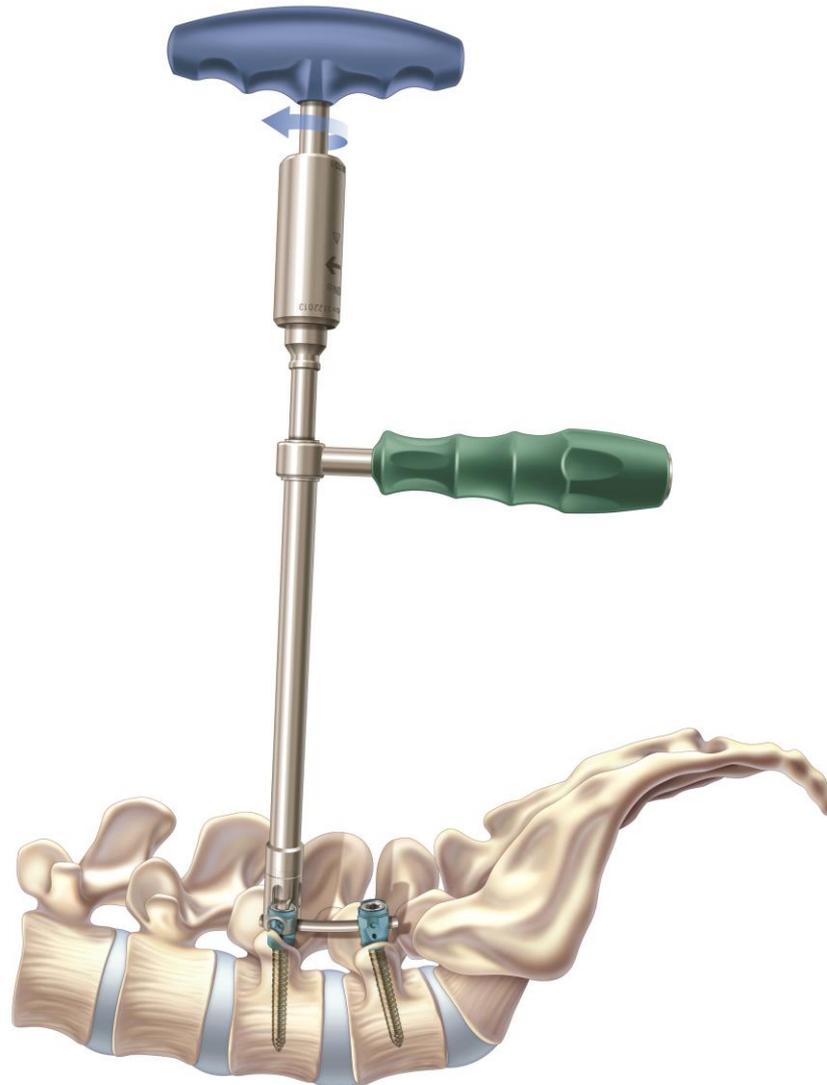
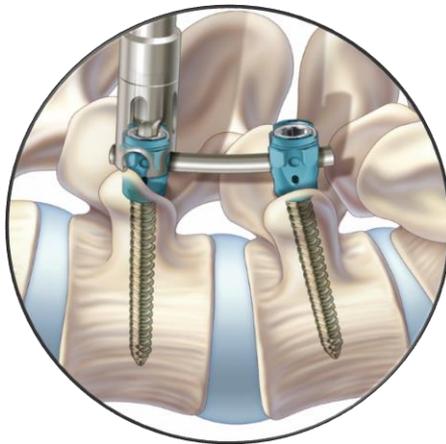


# Cápsulas para Derrodar Vértebra



FW287R

# Aperto Final





# S<sup>4</sup> ELEMENT MULTINÍVEIS

## S<sup>4</sup> Element Multiníveis

O Conjunto auxiliar Multiníveis oferece Parafuso de Íliaco e uma ampla Seleção de Conectores. Ampliando as indicações para o Sistema S4 e S4 Element, promovendo rapidez e segurança para o cirurgião.

### Indicações :

- Extensão de artrodese
- Reop
- Escolioses

### Benefícios:

- Versatilidade: os conectores são compatíveis para o Sistema S4 e S4 Element
- Instrumentais Simples
- A ampla variedade de tamanhos e modelos de implantes, permite a compatibilidade com diferentes anatomias dos pacientes.



# S<sup>4</sup> Element - Parafuso de Ilíaco



Poliaxial

| Diameter  |   | Lengths<br>(in 10 mm increments) |
|---|---|----------------------------------|
|  7.0 |  8.0 | 70-110mm                         |

## Conectores



Closed Domino Connector

7 mm  
11 mm



Closed/Open Domino Connector

7 mm  
11 mm



Axial Connector

Short



Axial Connector

Long



Closed Lateral Offset Connector

20 mm  
35 mm  
50 mm



Open Lateral Offset Connector

20 mm  
35 mm  
50 mm

# S<sup>4</sup> ELEMENT MULTINÍNEIS

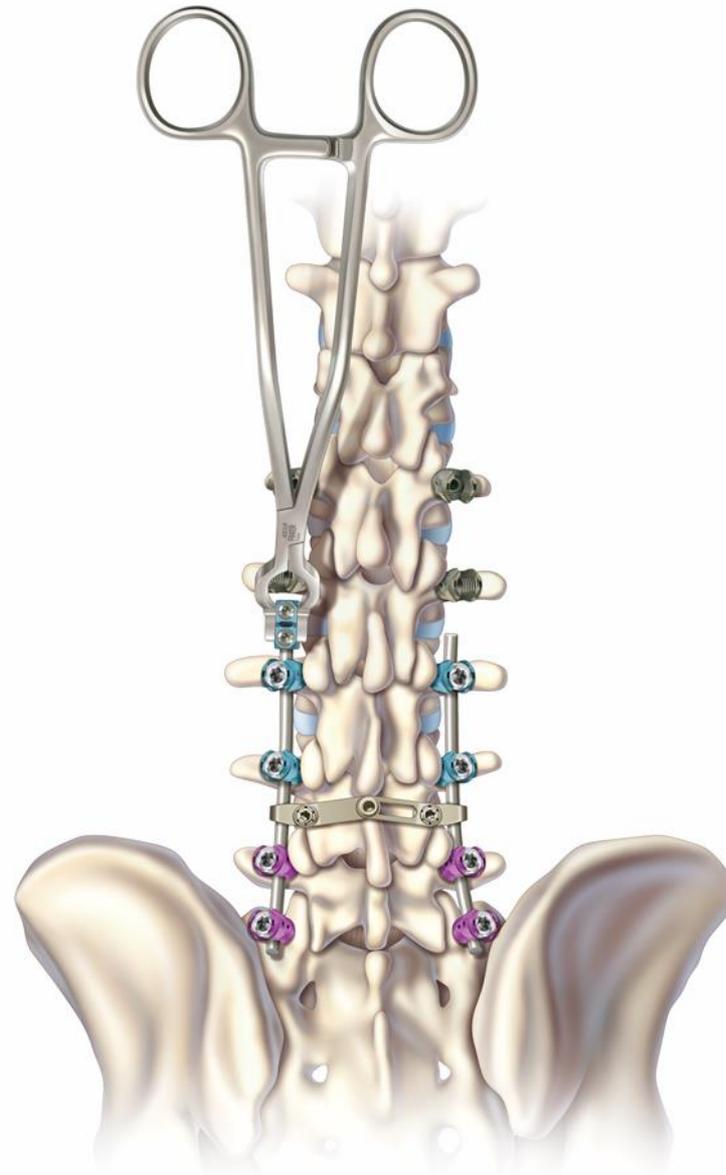
## TÉCNICA CIRÚRGICA



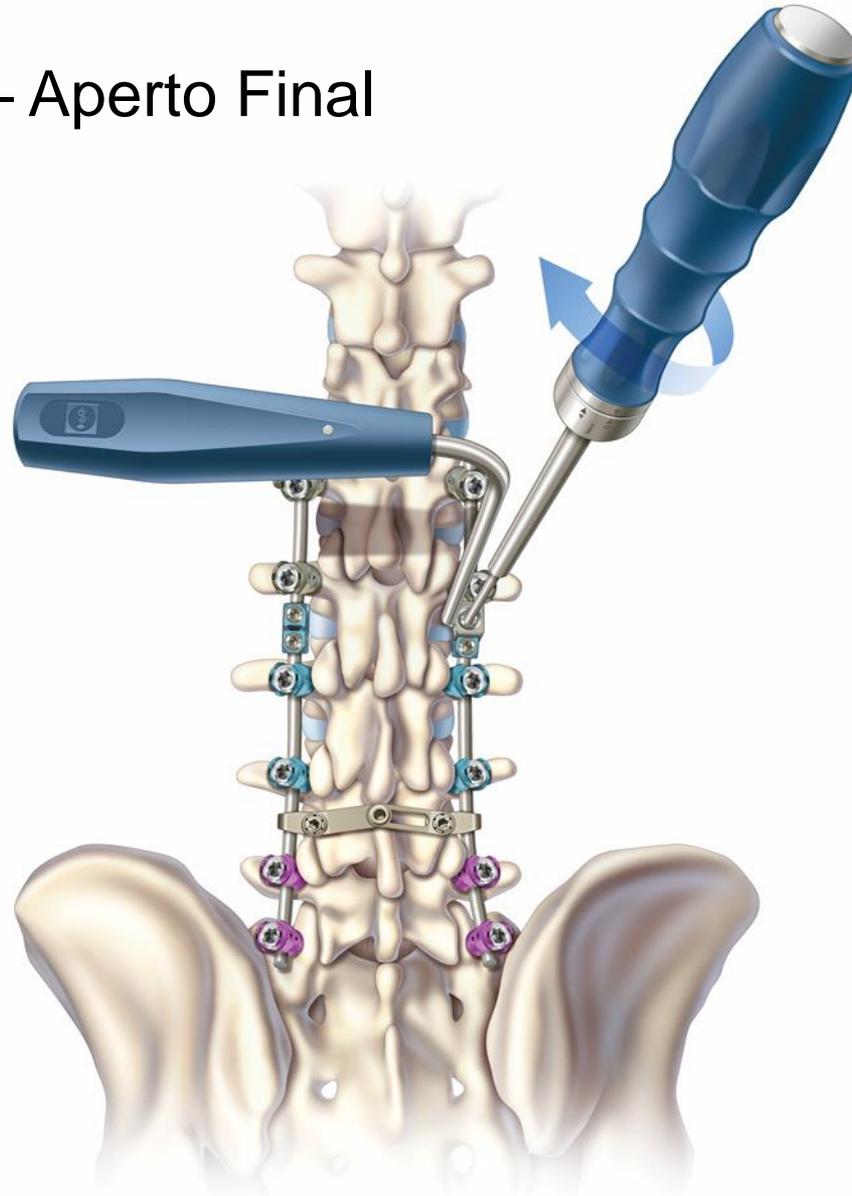
# Conector Axial



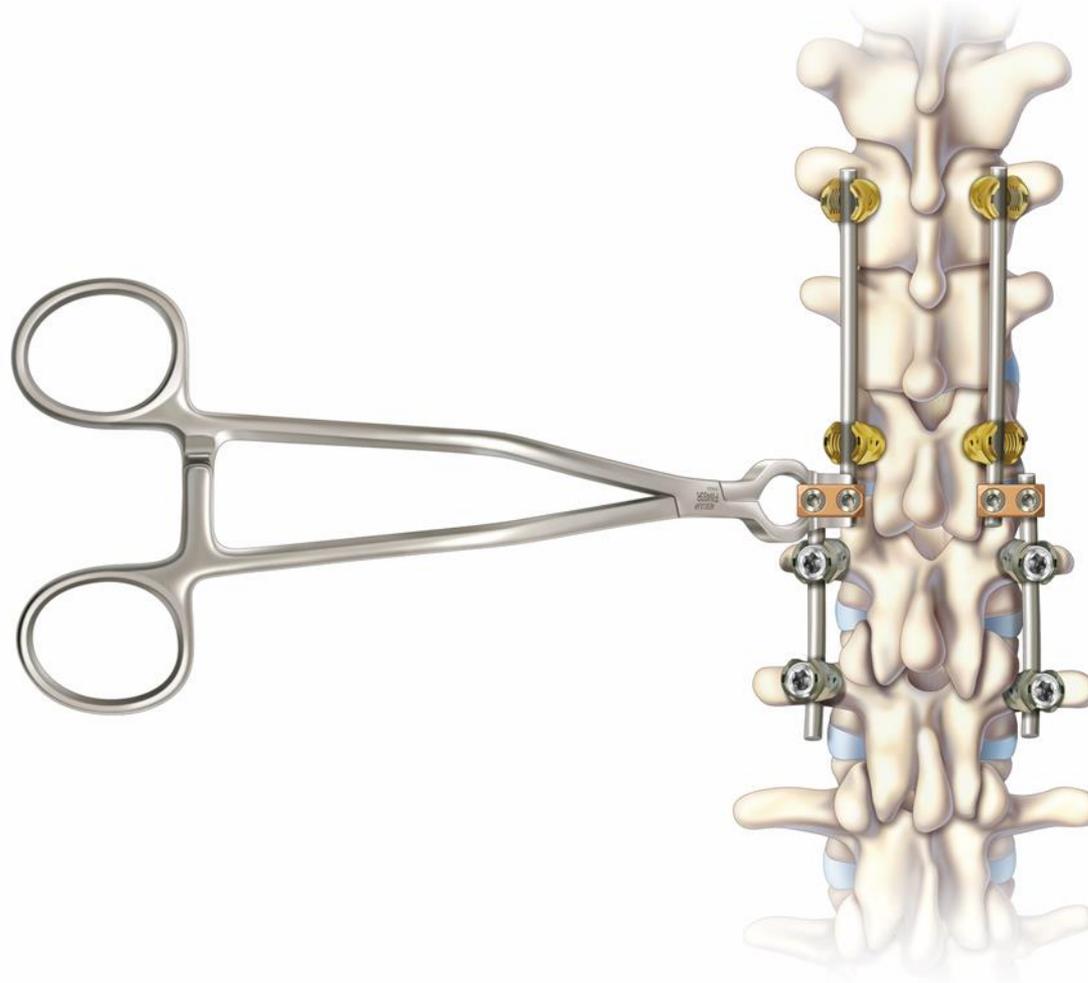
Pinça de inserção FW493R



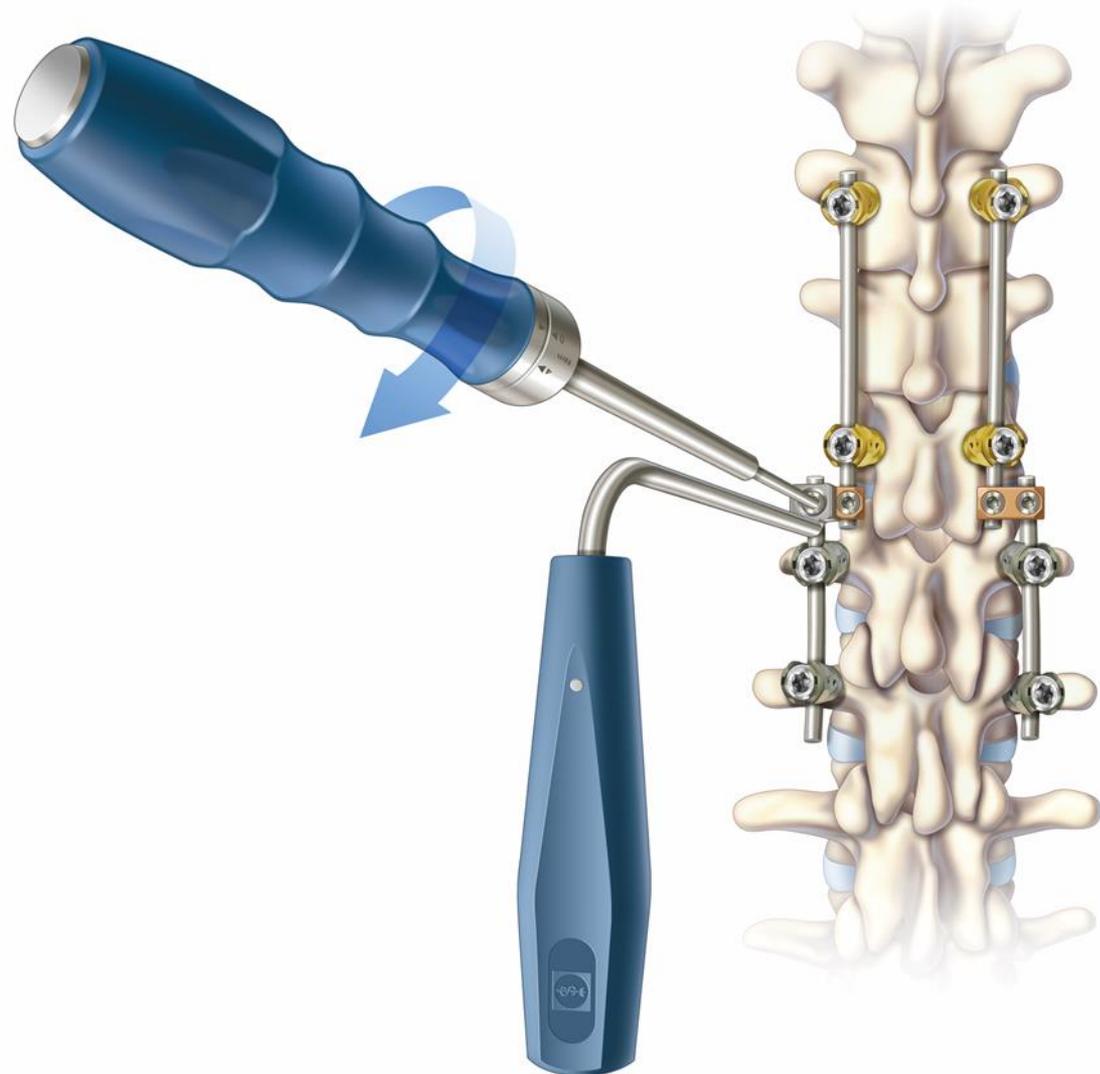
## Conector Axial – Aperto Final



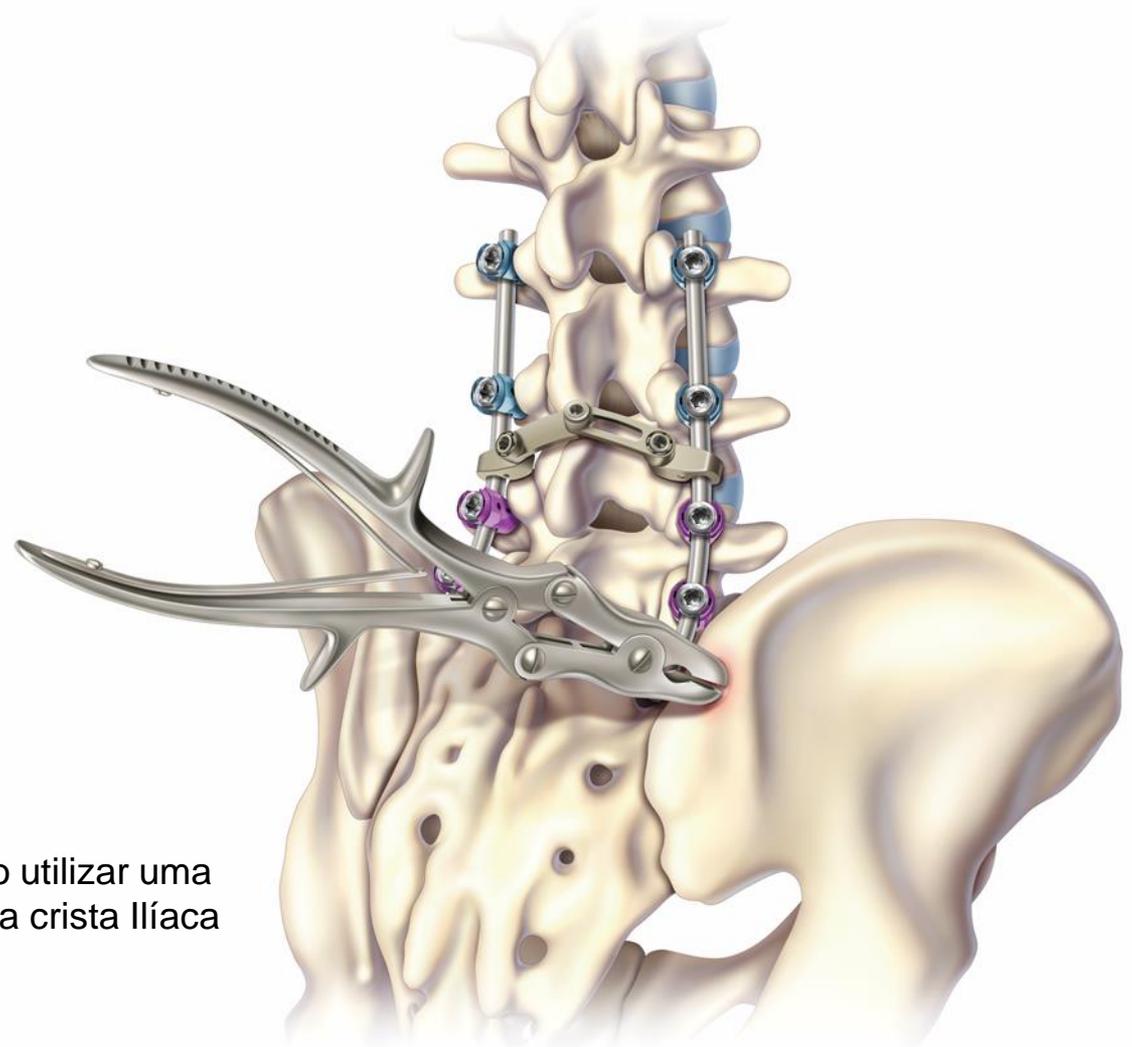
# Conector Dominó



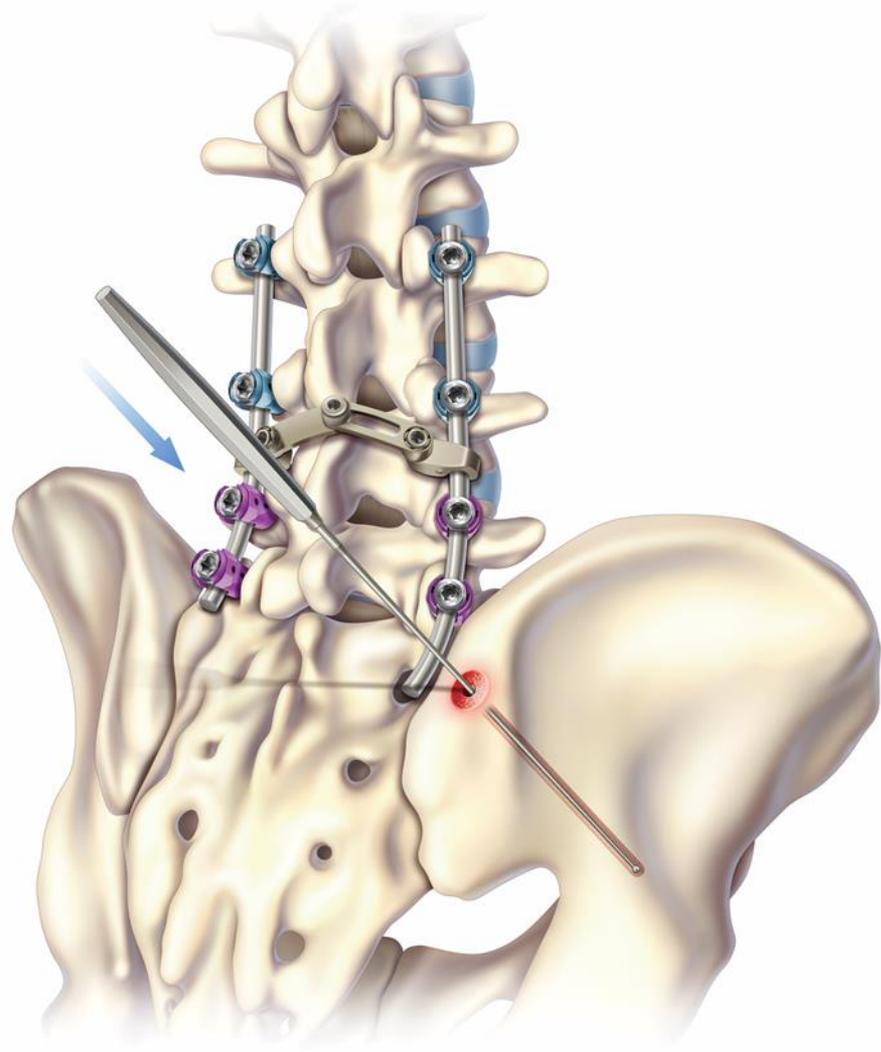
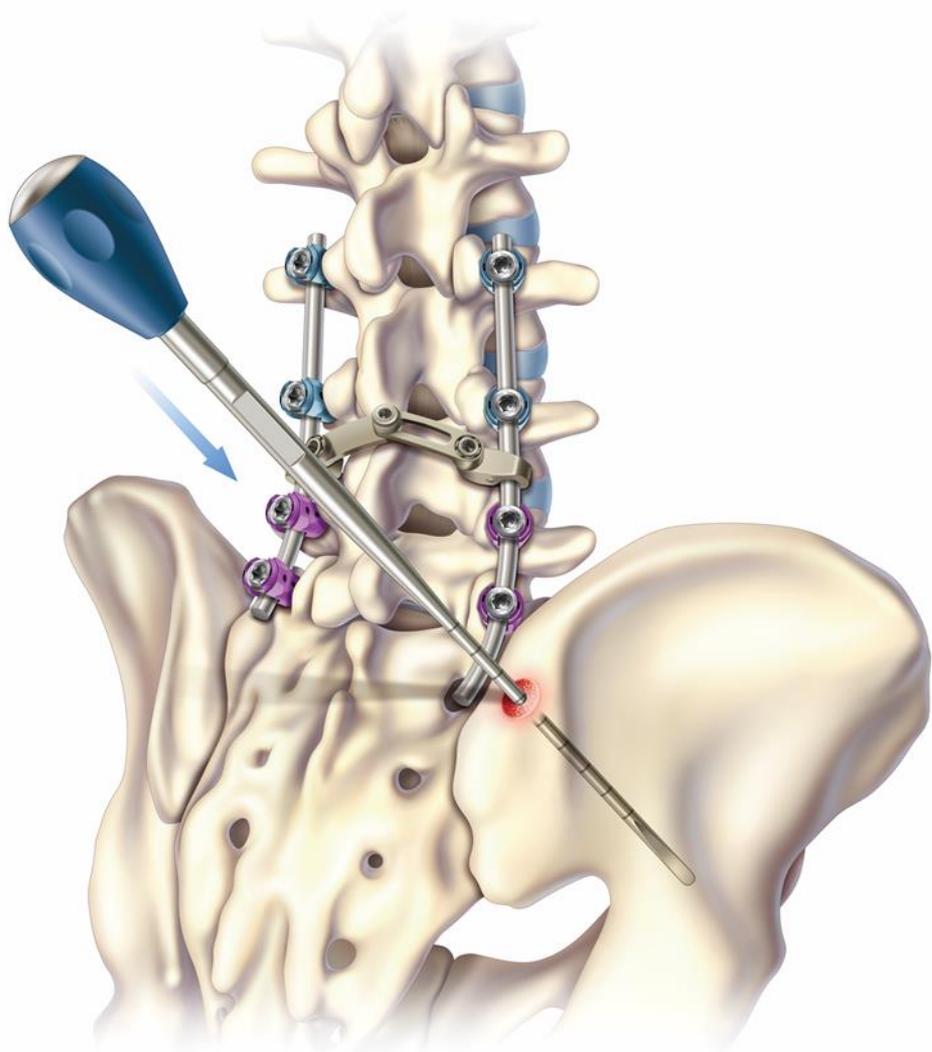
## Conector Dominó – Aperto Final



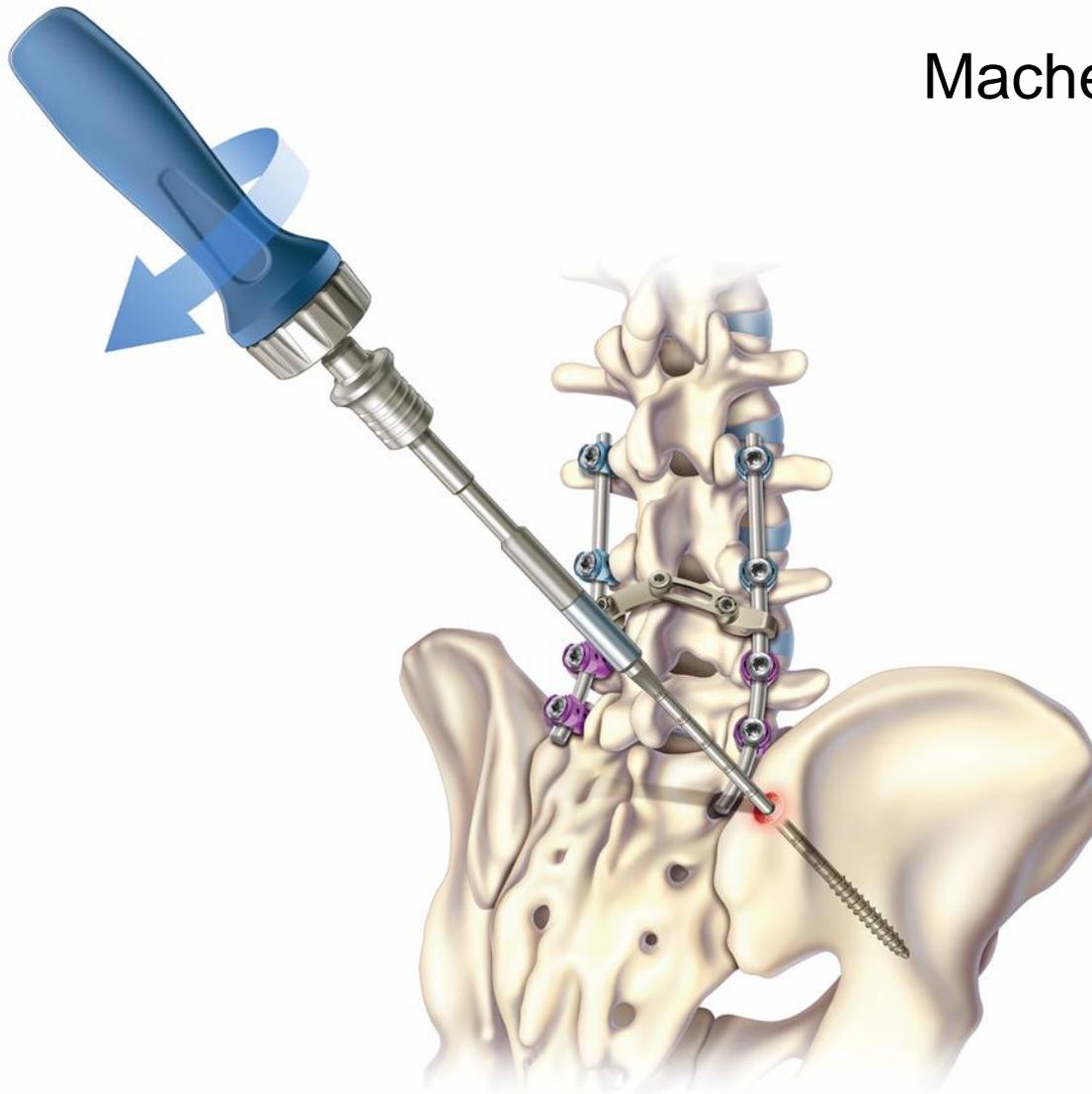
## Parafuso de Ilíaco e Conector Offset



Para esse procedimento é necessário utilizar uma GOIVA para expor a parte posterior da crista Ilíaca



# Machear



FW194R



FW195R



FW196R

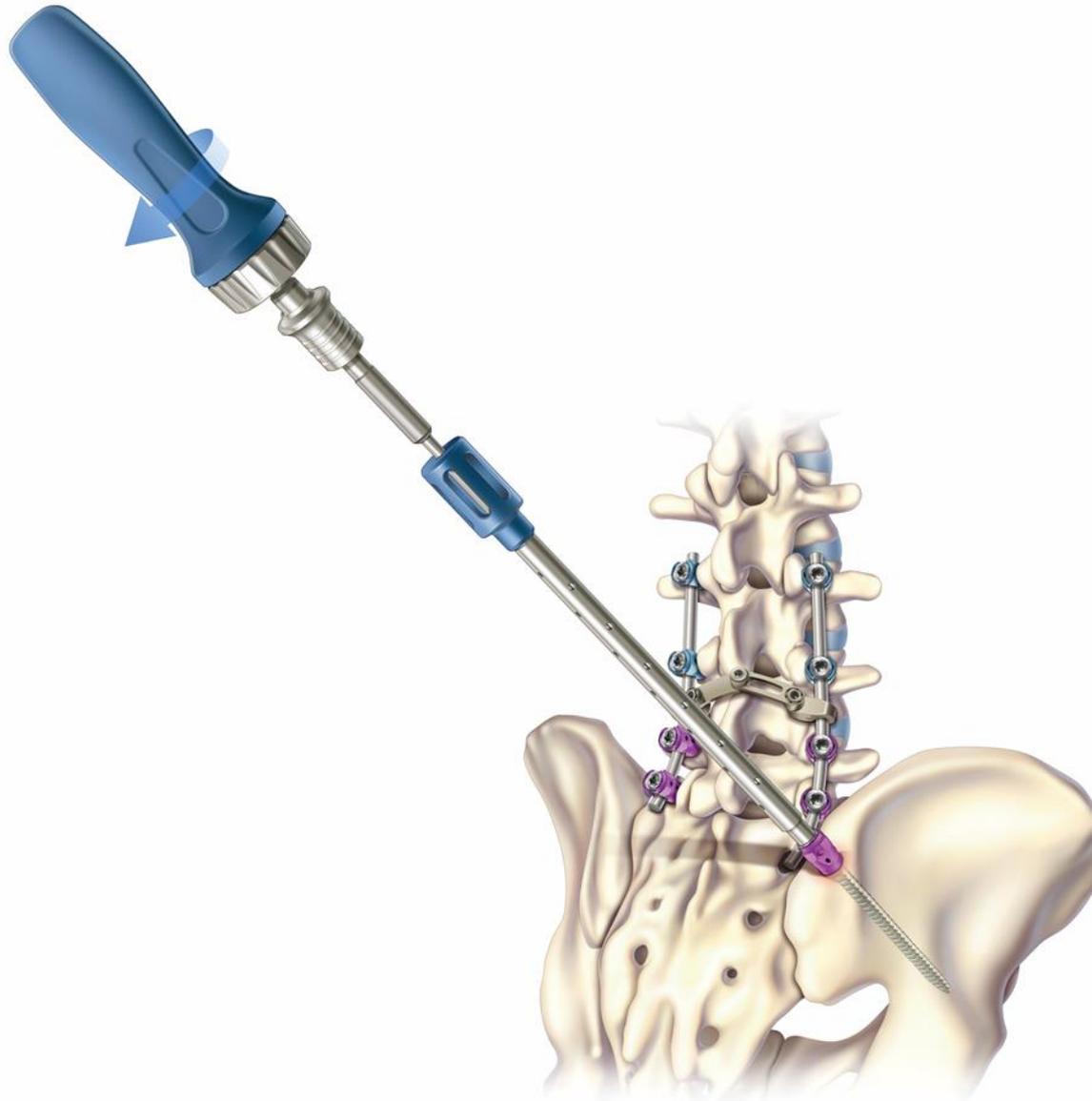


FW197R

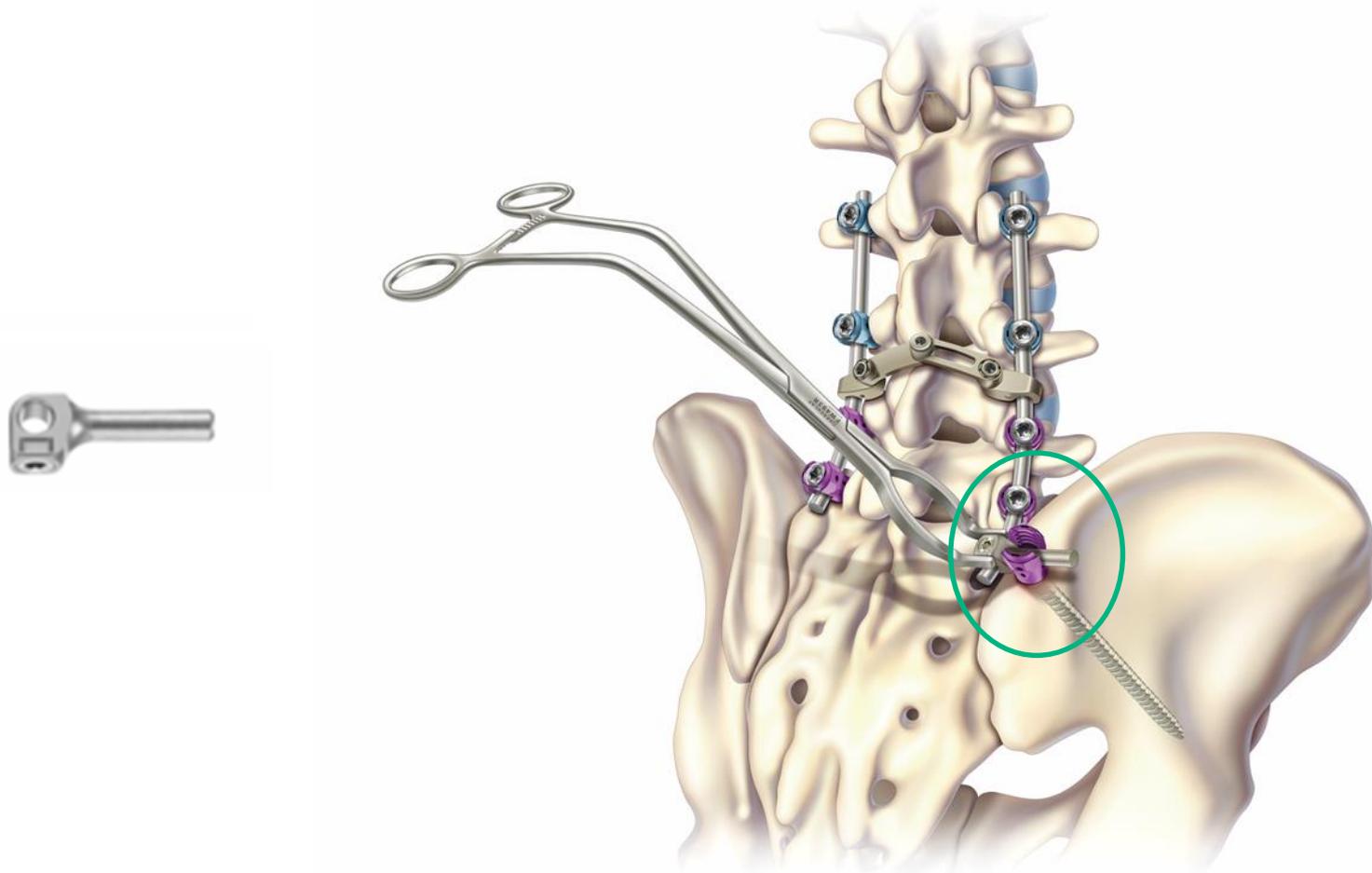


FW198R



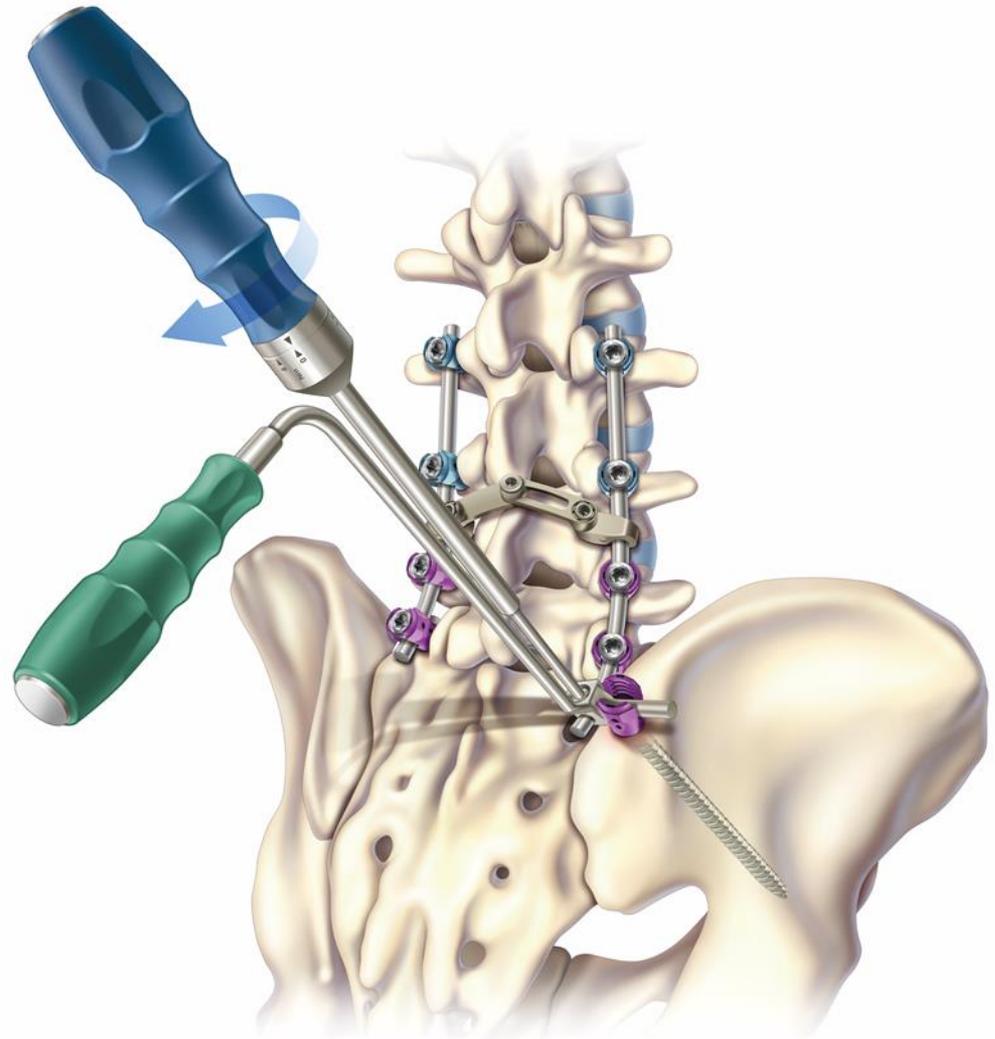


## Conexão entre: Parafuso de Íliaco + Conector Offset

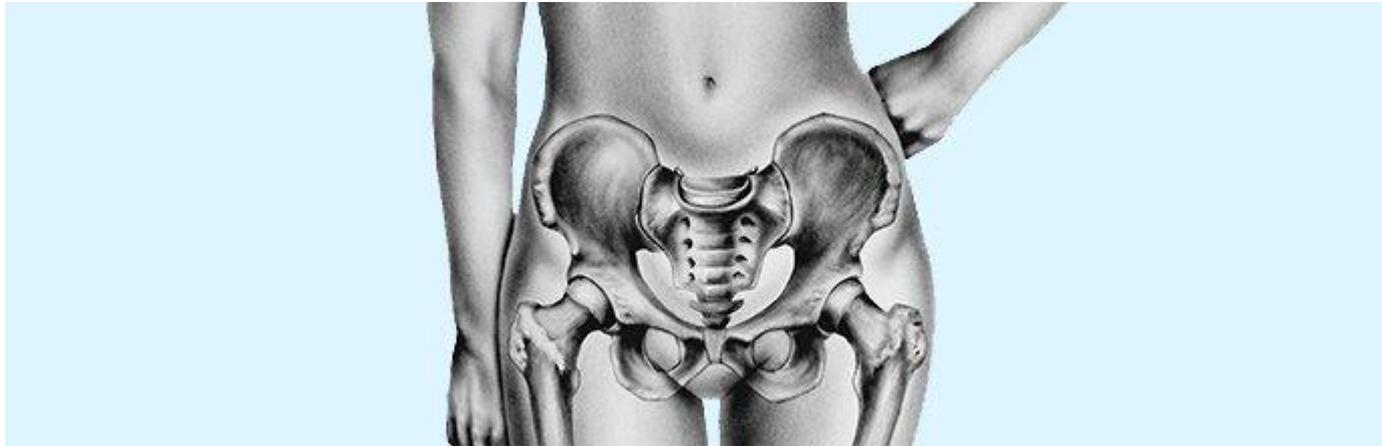


## Aperto Final

Para um melhor ajuste da Haste no Conector, pode ser usado o Persuader ou o garfo manual.



## Quando fixar o Ilíaco?



Quando precisamos de mais estabilidade para a Coluna, se mostra mais eficaz do que quando fixo apenas a região lombosacral.

### Patologias:

- Escoliose
- Pseudoartrose
- Doenças degenerativa em pacientes idosos
- Espondilolistese grave