ROMEO®2

QR LINK DEFORMITY SYSTEM

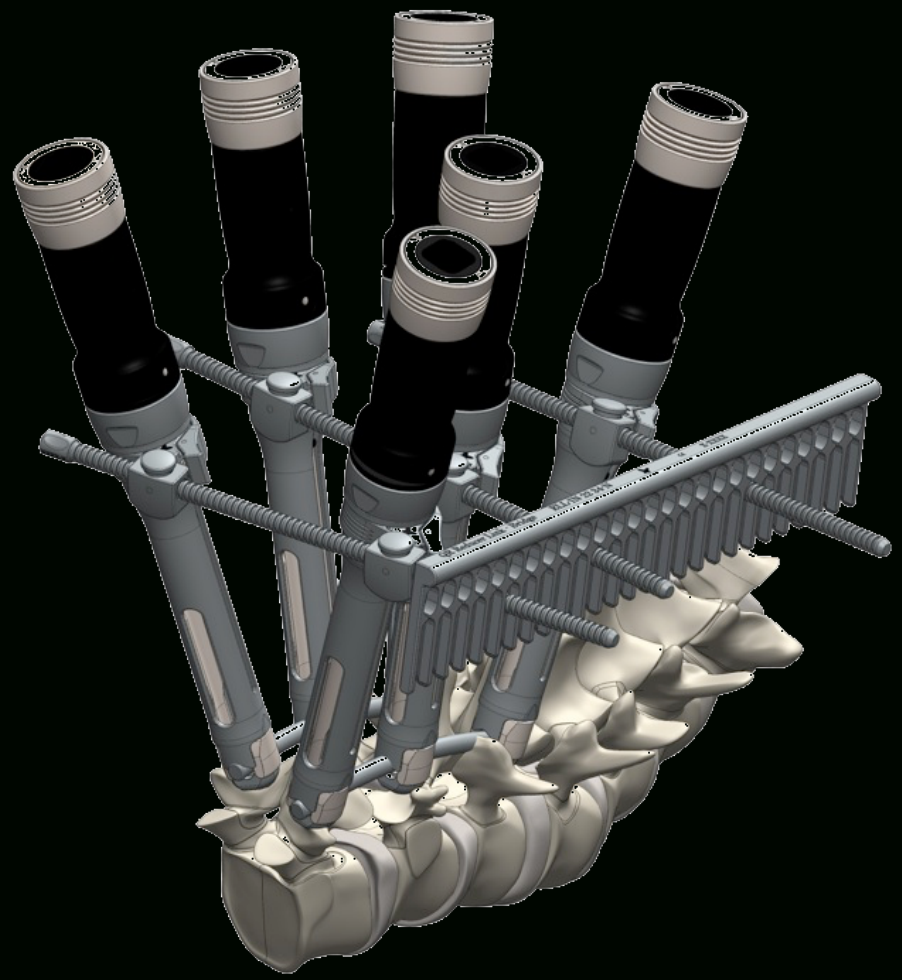
by spineart

Concept

Product line extension to complete our deformity product offering

Synergy with ROMEO®2 LC instrument set and ROMEO®2 25D pedicle screws

Enter the latest ‘En Bloc’ apical derotation treatment option



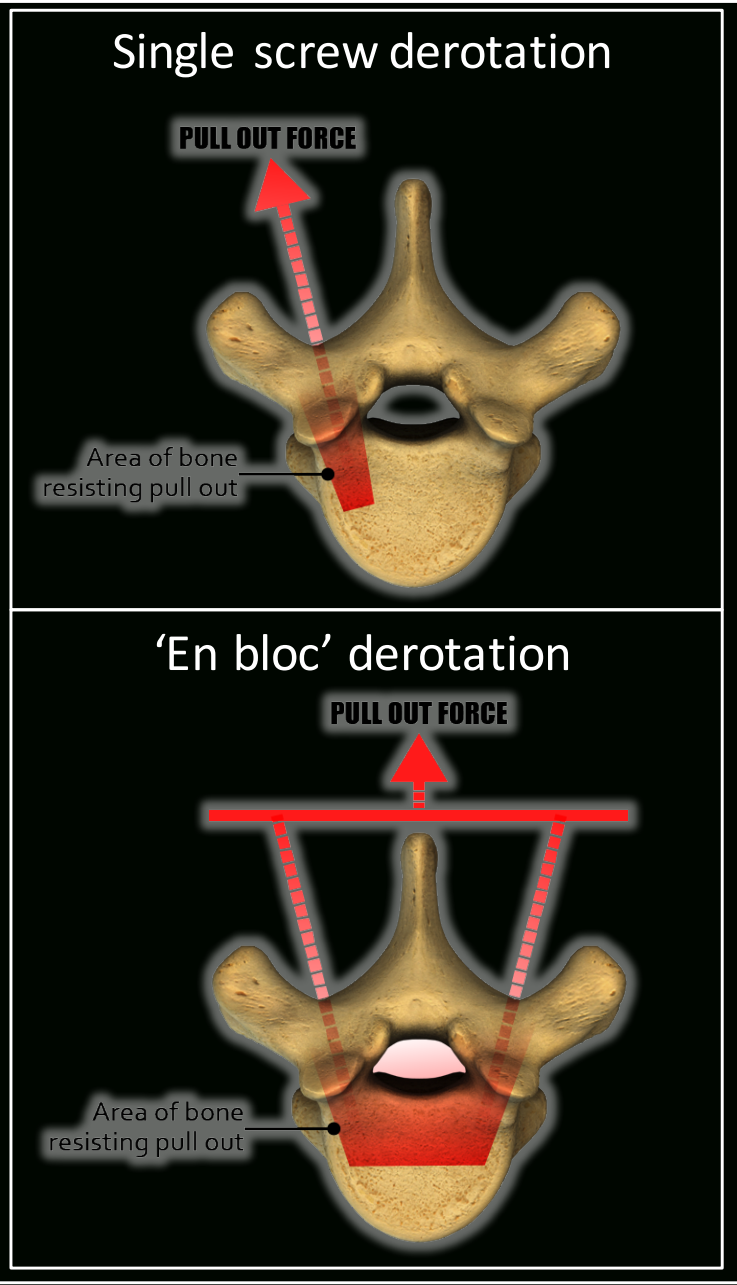
Rationale of QR Link

'En Bloc' derotation is a maneuver on multiple vertebra linked together

Reduction forces are shared between the 2 screws of the same vertebra (DVR & 'En Bloc')

Reduction forces are shared among multiple vertebra ('En Bloc')

Possible diminution on implant density with shorter operative time



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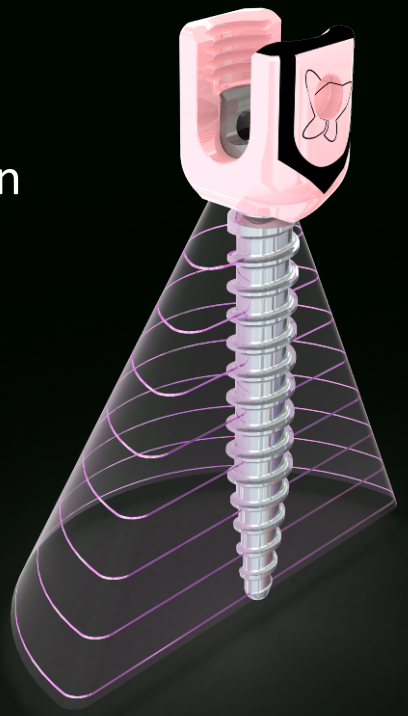
‘En bloc’ derotation preferred screw

‘En Bloc’ cluster is applied at the APEX of the curve(s) to enable apical vertebra derotation

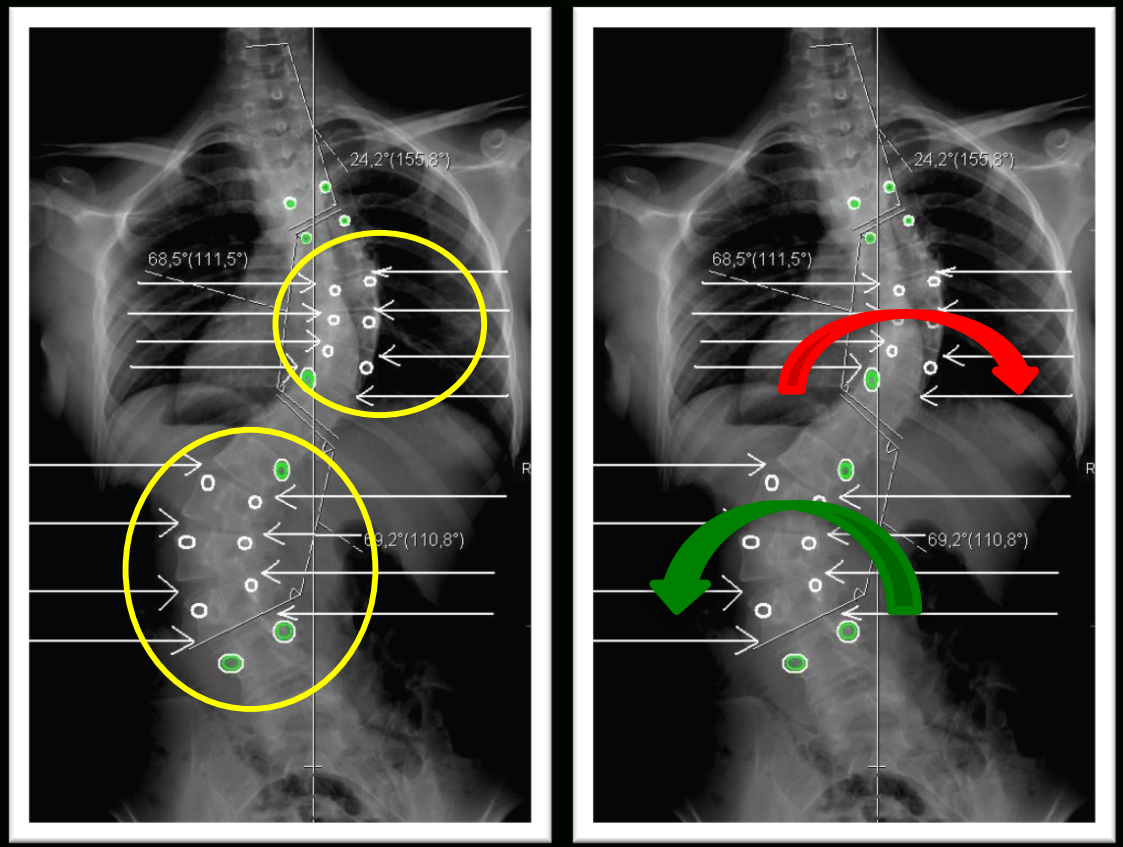
ROMEO2 25D screws

- Semi-polyaxiality to ease rod introduction
- Unidirectional control of the axial vertebral rotation
- Black laser marking facing curve convexity



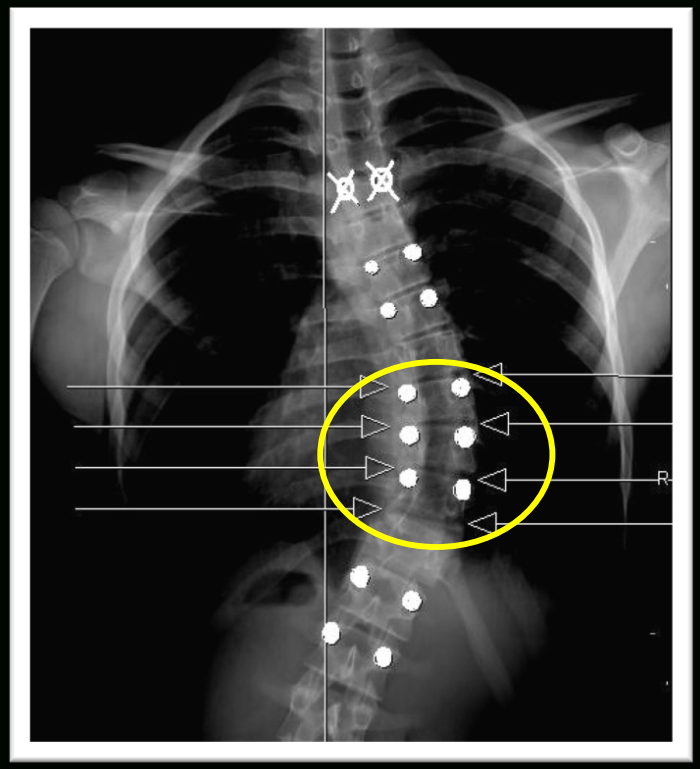
‘En bloc’ derotation surgical strategy

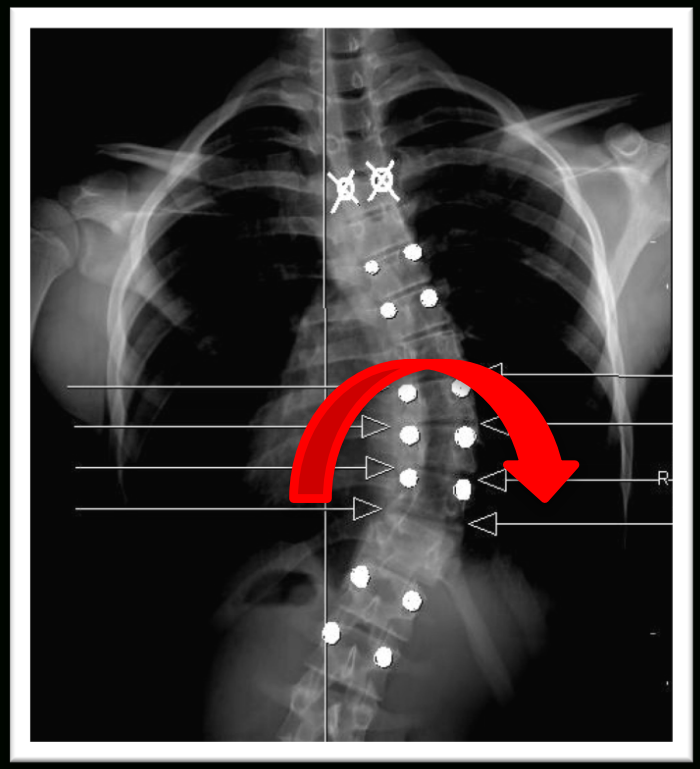
Double curve



‘En bloc’ derotation surgical strategy

Single curve





ROMEO®2 QR LINK

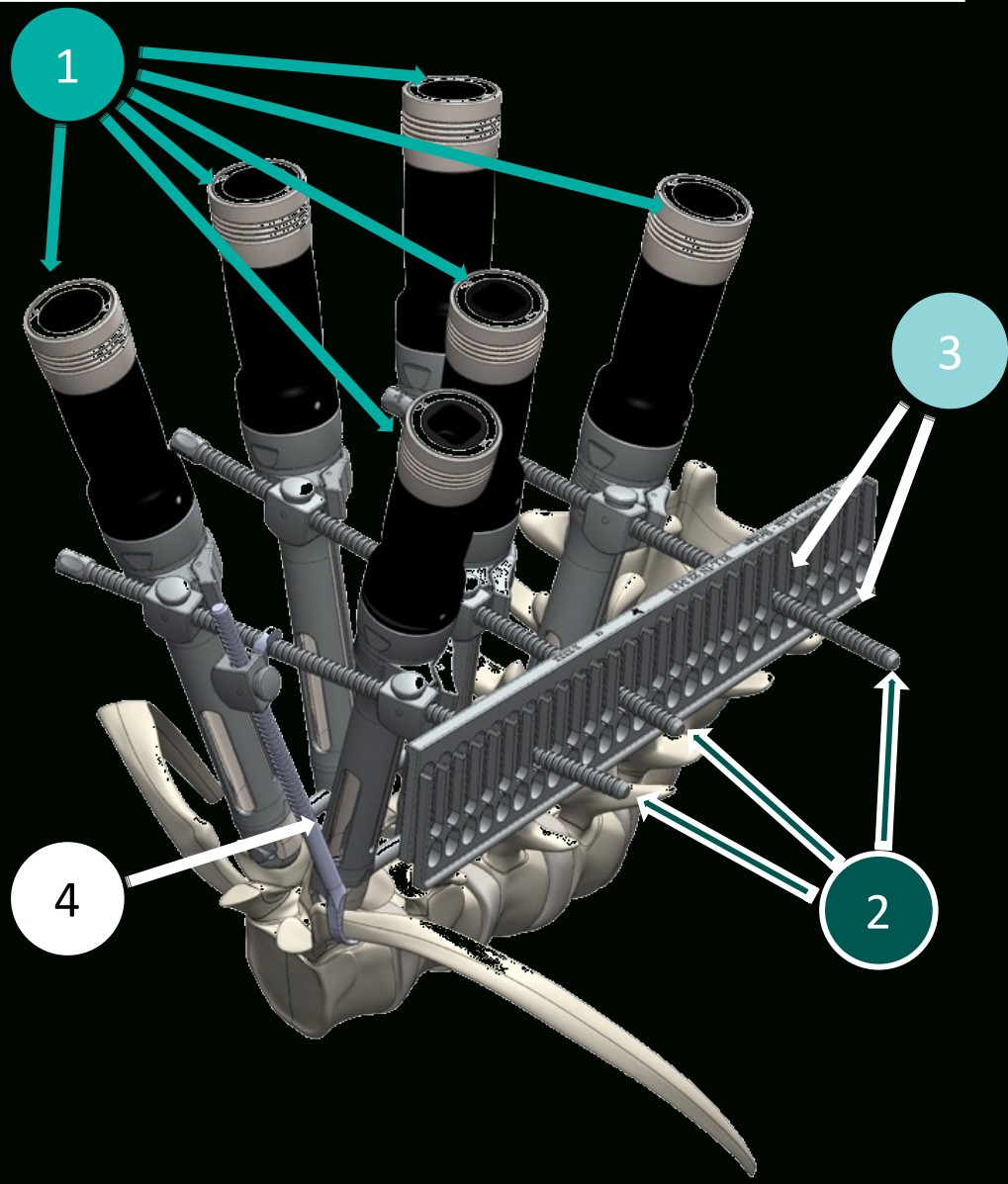
Components

1 QR Reducer

2 QR Link

3 QR Link bridge

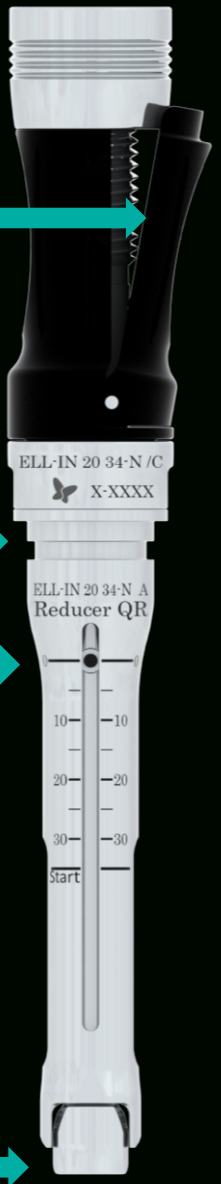
4 Ribac



QR reducer

Features

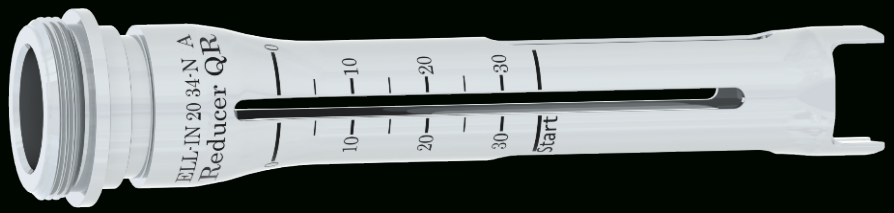
- Quick release handle
- Rotational connection to the QR link
- Reduction capability of 35mm
- Omnidirectional connection to the screw



QR reducer

Reference: ELL-IN 20 34-N

Composed of
ELL-IN 20 34-N/A : tube



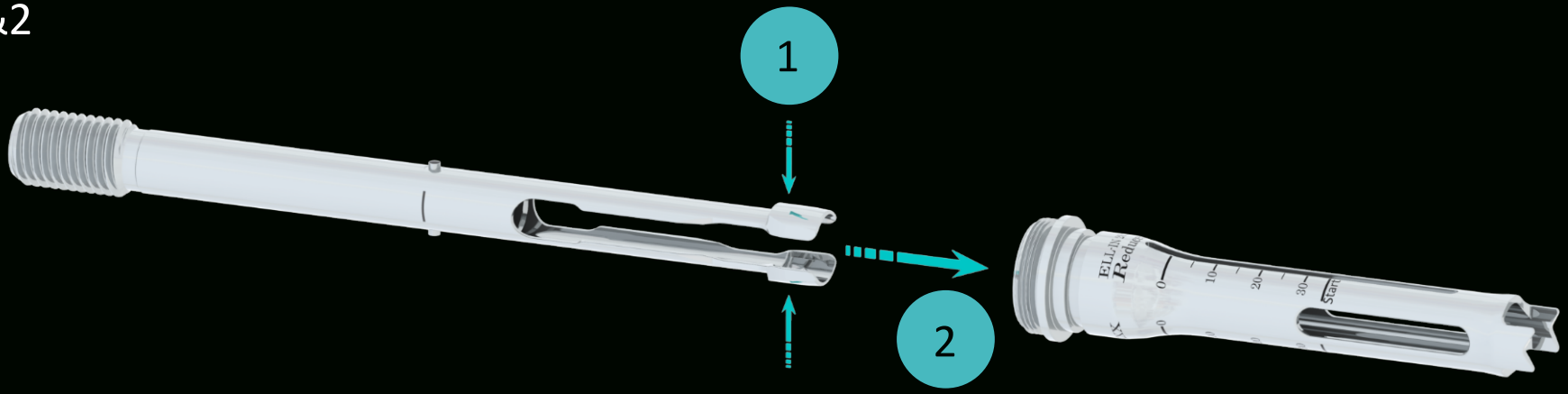
ELL-IN 20 34-N/B : shaft

ELL-IN 20 34-N/C : Handle

QR reducer

Mounting instructions

Step 1&2



Step 3

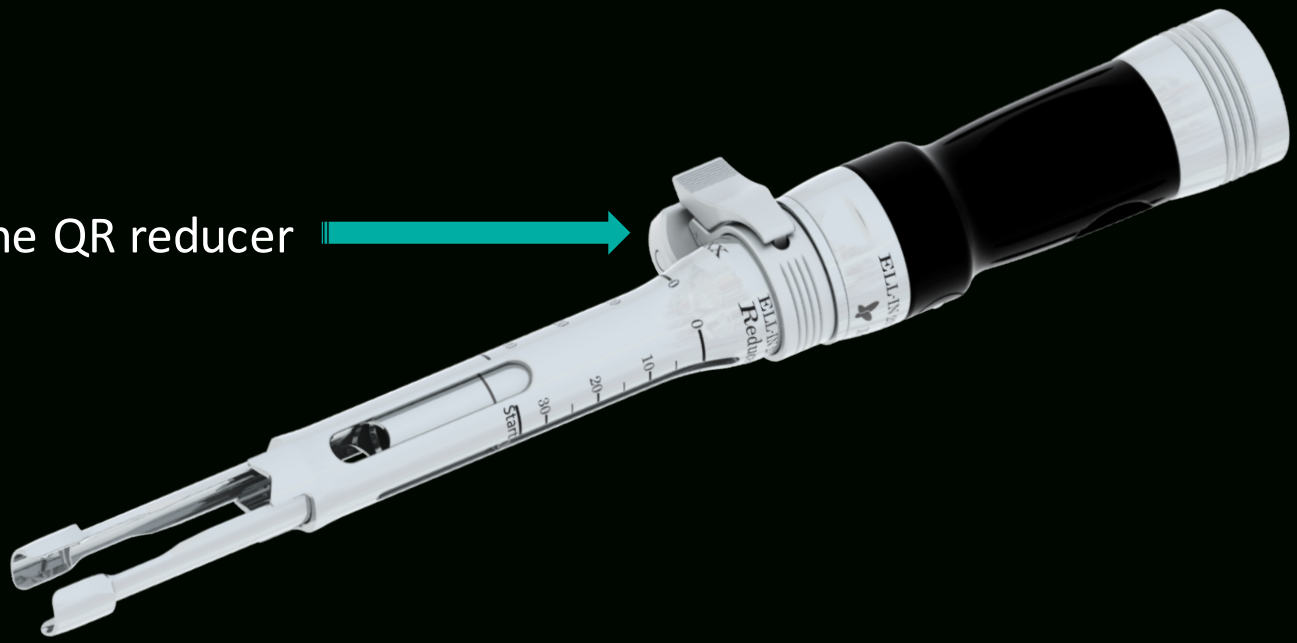
QR Link

Features

- Transversal link of the QR reducer
- Ring connect to the QR Reducer

- Multi-groove design of the stick for secured link

- Rotational connection to the QR reducer



QR Link

Reference: ELL-IN 21 34-N

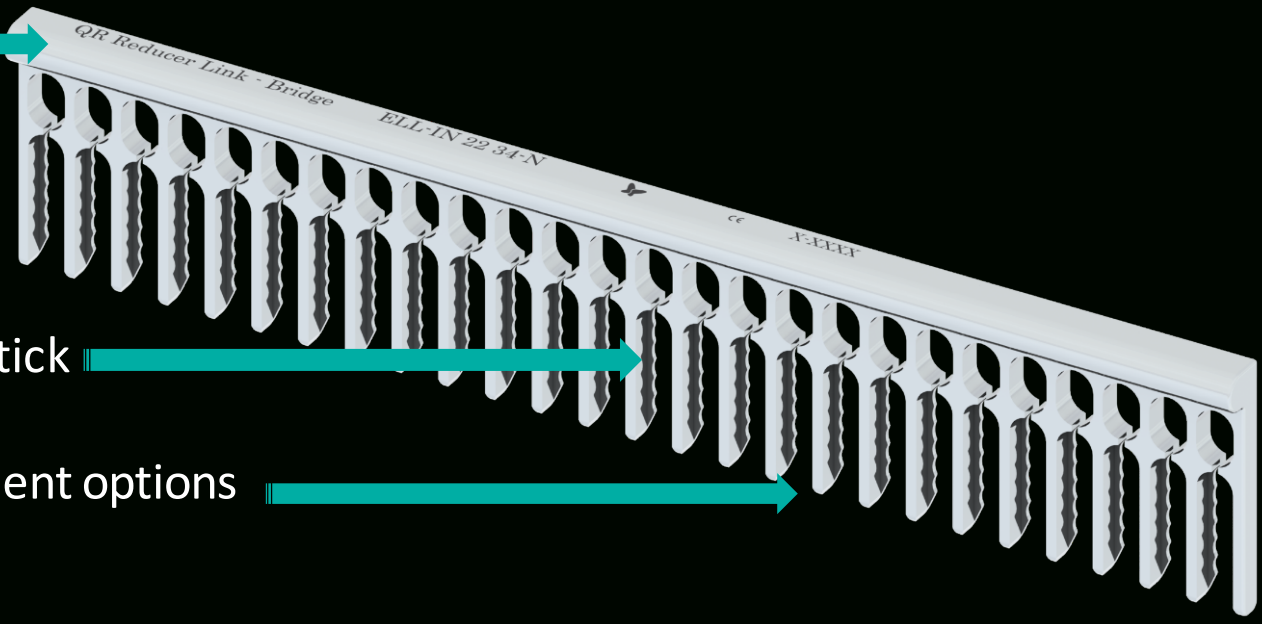
Composed of
ELL-IN 21 34-N/A : ring x2

ELL-IN 21 34-N/B : stick

QR Link Bridge

Features

- Longitudinal link of the QR link stick
- Grasping ridge
- Quick capture of the QR link stick
- Multiple QR link stick attachment options



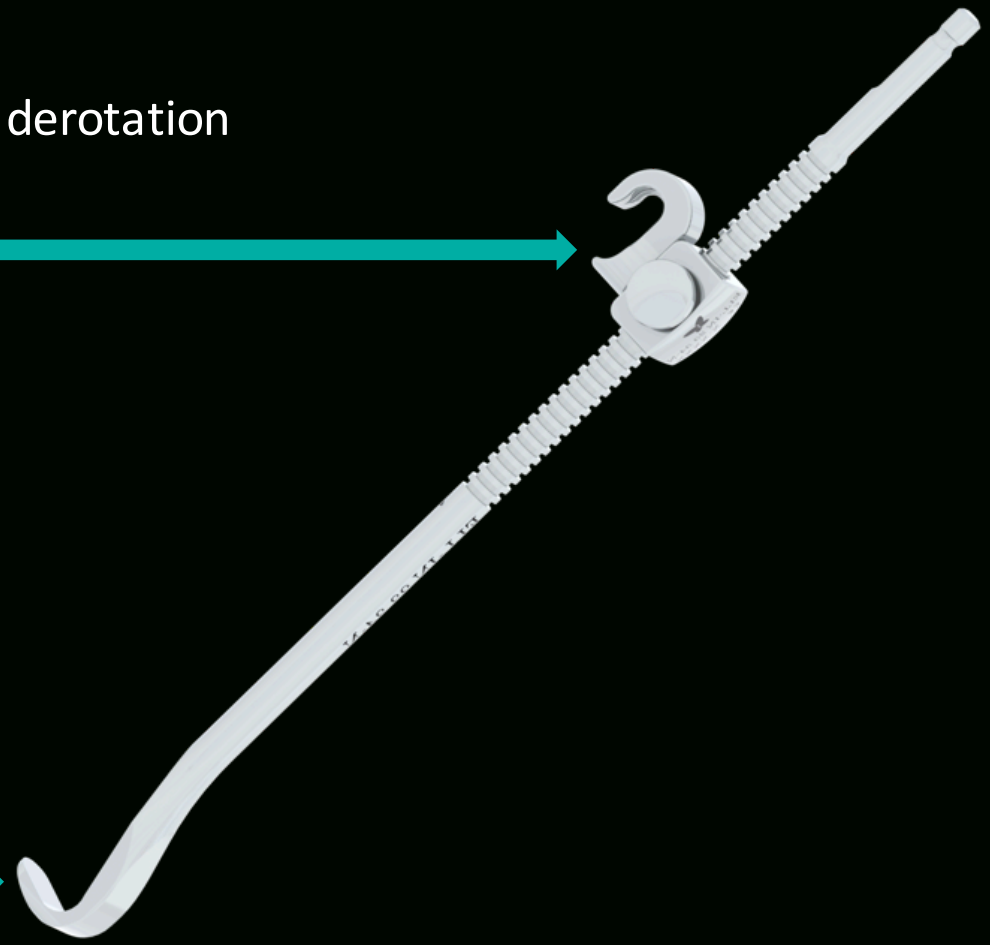
Reference: ELL-IN 22 34-N

ROMEO®2 QR LINK

Devices : RIBAC Option

Features

- Rib attachment to the frame
- Rib hump reduction while apical vertebra derotation
- Attachment to the QR link stick
- Attachment to the rib



Reference: ELL-IN 23 34-N

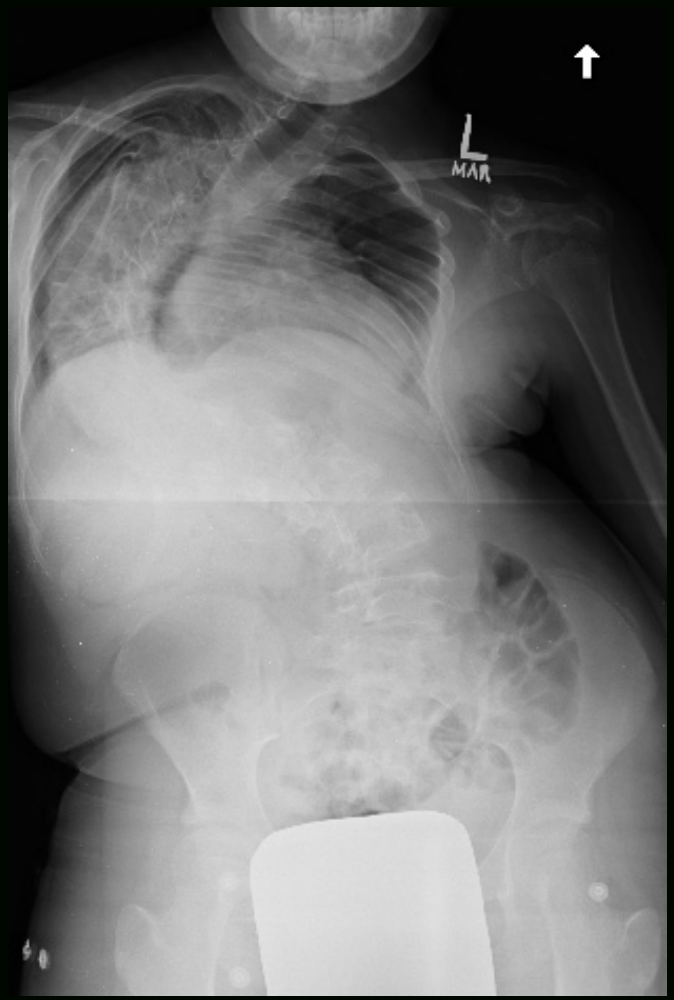
Clinical case – courtesy of Dr Cunningham

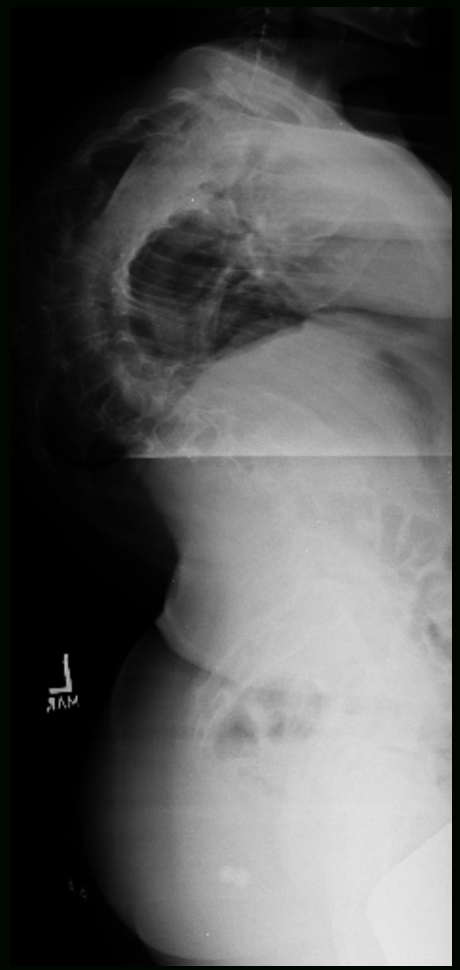
13 yo girl presents with 130 degree right thoracic scoliosis and back pain

- History of mild hydromyelia, no surgical intervention
- No tethered cord or Chiari malformation by MRI

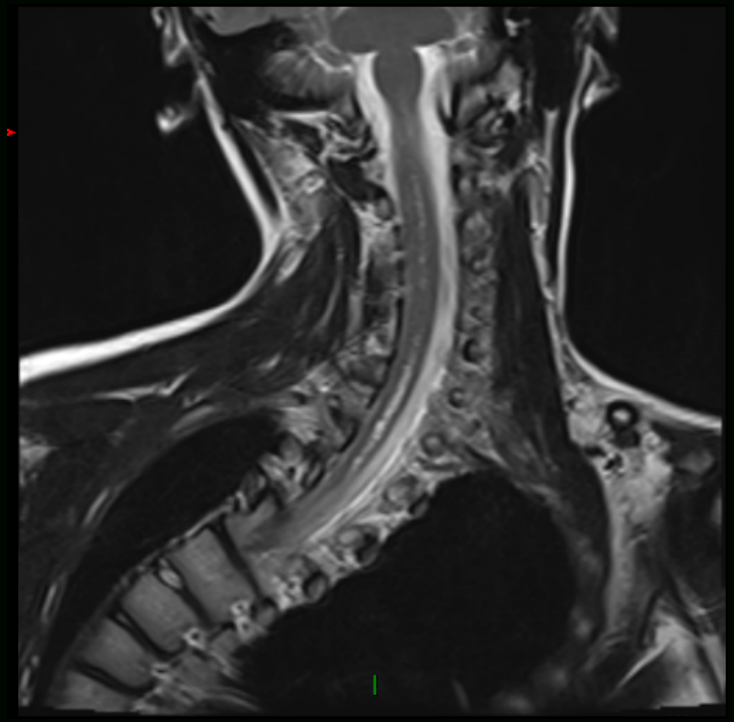
Neurologically intact

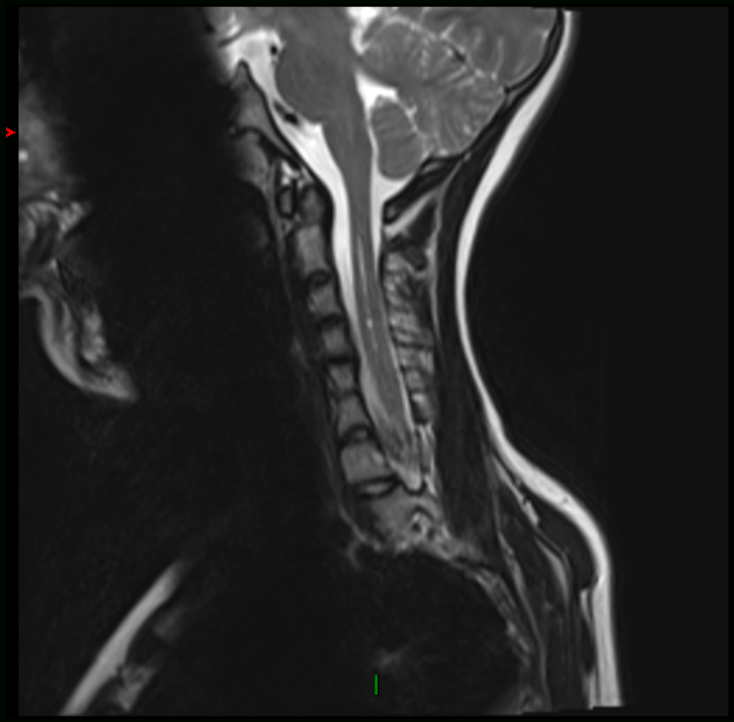
Clinical case – courtesy of Dr Cunningham



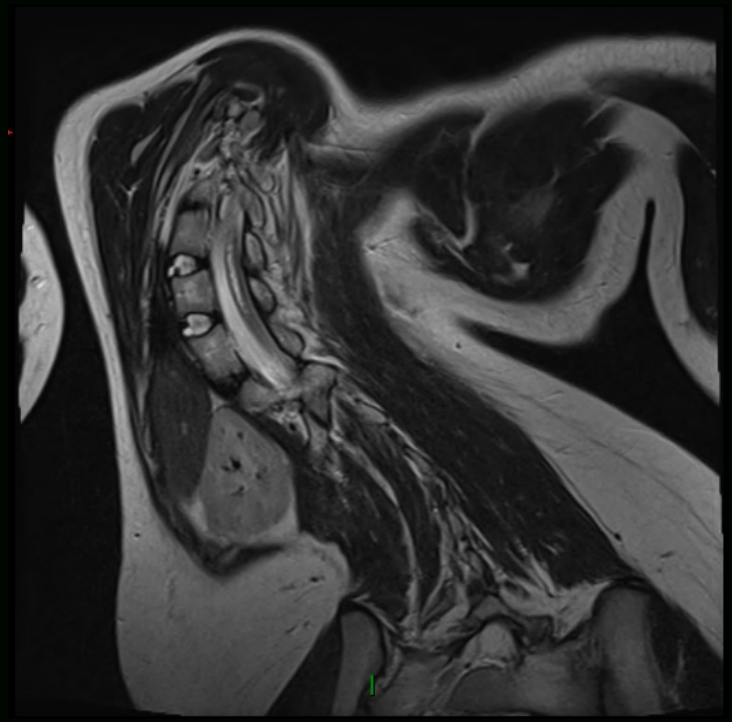


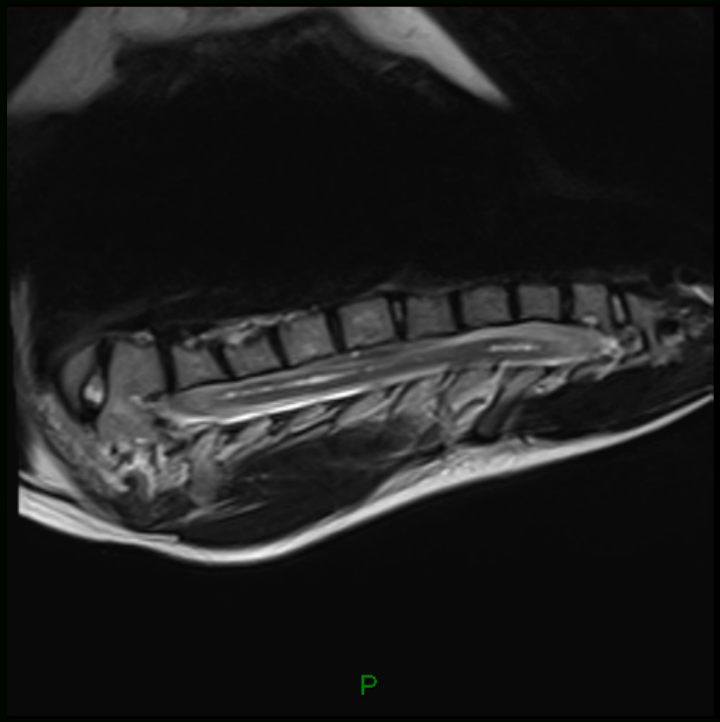
Clinical case – courtesy of Dr Cunningham





Clinical case – courtesy of Dr Cunningham





Clinical case – courtesy of Dr Cunningham

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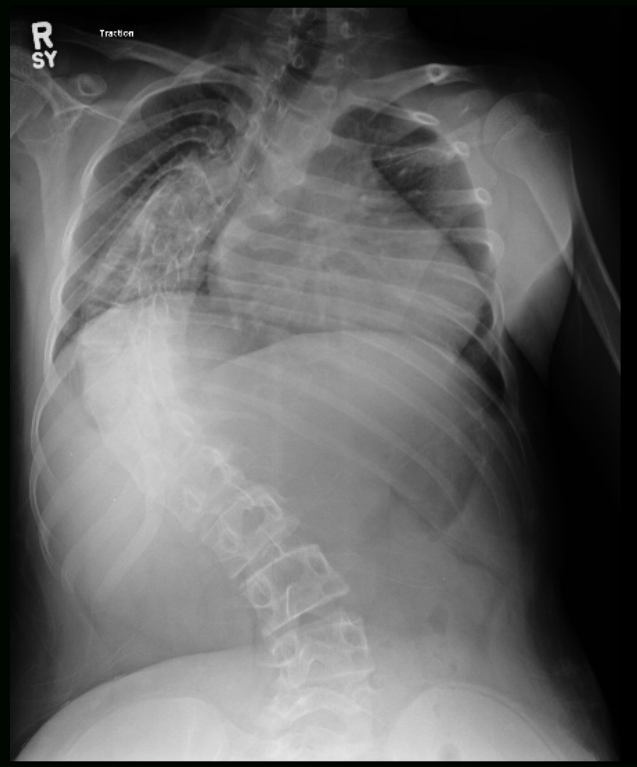
- Bending studies of limited use due to deformity severity and contact of ribs against pelvis
- Traction film showed correction of curve to 94 degrees



Clinical case – courtesy of Dr Cunningham

- Due to limited flexibility, staged procedure was planned
- ASF T8-L3 with complete discectomies and far-side annulus resection at each level followed by halo-gravity traction
  - Segmentals preserved
- 9 days later PSIF T2-L4 with multiple Ponte osteotomies

Clinical case – courtesy of Dr Cunningham

- During traction, developed double vision with right CN VI nerve palsy
  - Resolved 2 months postop

- After posterior fusion, noted decreased abdominal sensation in roughly T10-12 distribution, otherwise neuro intact
  - Abdominal sensation improving at 2 mos postop

Final Correction- 2 mths postop

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