



Agility



Universal Clamp





Concept



Congenital
Scoliosis

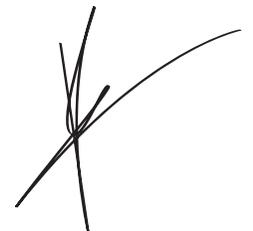
Idiopathic
Scoliosis

Neuromuscular
Scoliosis

«The weak point in a spinal osteosynthesis is the implant/bone interface. Our aim was to find a **strong connection** that diminishes the stress on bone to allow an increase in reduction forces. In addition, the ideal device should associate the **straightforwardness** of Luque-type implants, the **stability** of screws and the **adaptability** of hooks.»

We are satisfied that the Universal Clamp more than meets these goals.»

Professor Keyvan Mazda, Paris, France



Simple and Quick

The Universal Clamp consists of only 3 components



■ Woven Polyester Band

Manufactured according to the most advanced technologies, it combines biocompatibility, strength and flexibility without compromise.

■ Ti alloy Clamp

Only available for 5.5mm Ti rods, it ensures resistant and reliable stability of the construct.

■ Ti alloy Locking Screw

Simple and secure system to lock the clamp and the band onto the rod.

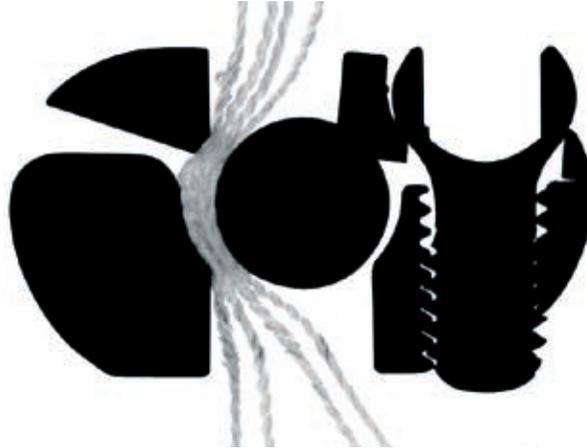
The Universal Clamp is indicated to address the surgical and biomechanical challenges encountered in all types of scoliosis. Shunting the use of pedicle screws, hooks and wires greatly reduces operative duration.

Strong and Stable



Fixation

The Universal Clamp can be considered as a “universal hook”. The mechanical stability of the construct is provided by the fixation of the clamp itself on the rod and by the high tension of the band firmly locked in the clamp.



Reliability

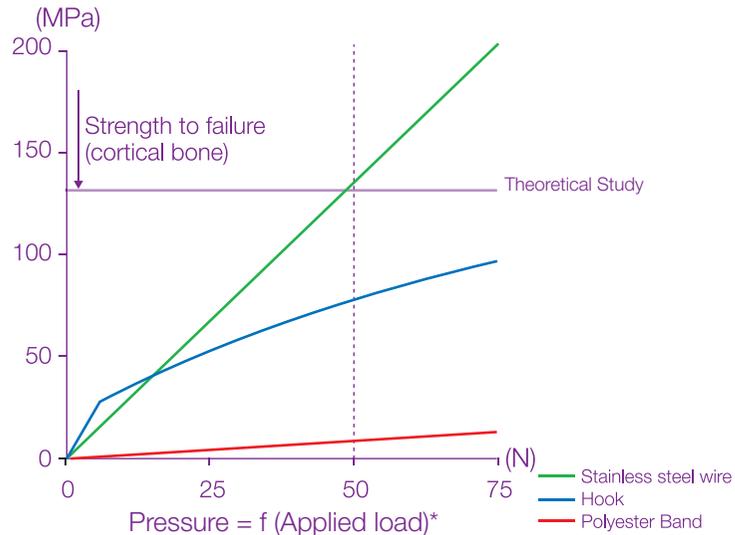
Thanks to its patented design, the powerful locking mechanism of the Universal Clamp permits the same compression or distraction maneuvers as any pedicle screw or hook system.



Tightening

The mechanical performances of the Universal Clamp are primarily attributable to the unique features of the polyester band. A dedicated tightening instrument enables the surgeon to attain high band tensions in safely controlled manner.

Conservative and Versatile



Bone preservation

In comparison with hooks and stainless steel wires, the flat polyester band loads the bony structure in a physiologically sound manner (at loads of 50N, the stress on the bone is 17 times lower than that produced by wires and 9.5 times lower than that of hooks). Moreover, since the Universal Clamp replaces screws, the bony structure is fully preserved. It may even be used in many osteoporotic patients.

** Theoretical study*

Reduction control

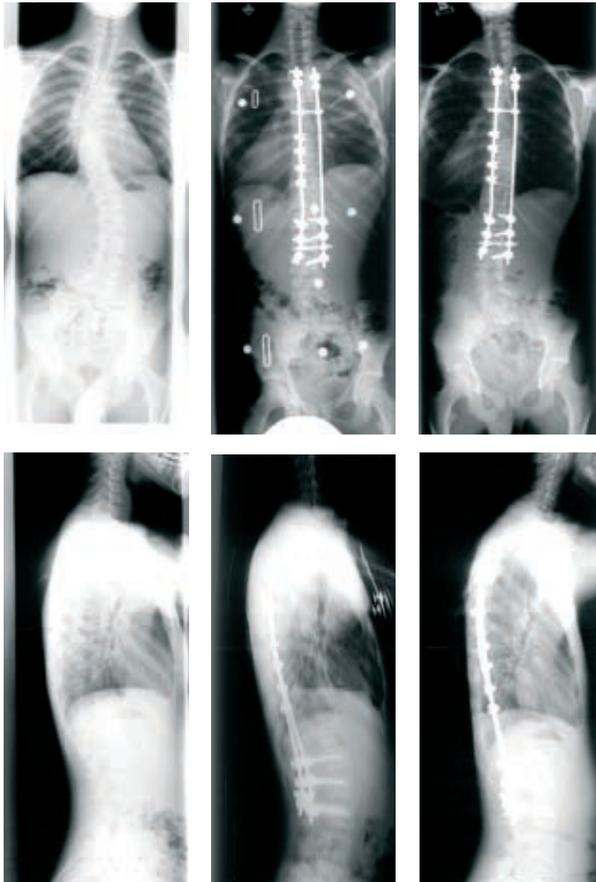
In order to perform a physiological reduction, several Universal Clamps can be positioned along the rods. In this manner, the clamps can be tightened independently and simultaneously to obtain a smoothly controlled reduction.

Adaptability

The flat polyester band is fully flexible allowing safer passage around bony landmarks for a powerful grip. Biological tests have demonstrated that the polyester band is completely innocuous for the surrounding spine and soft tissues.

Clinical cases

Male, 17 years old, idiopathic scoliosis



Pre-op

Post-op

6 months

Female, 15 years old, idiopathic scoliosis



Pre-op

Post-op

6 months

Our Legacy

Founded in 1996, Abbott Spine was built on a foundation of innovation. For inspiration, we have listened to surgeons, studied surgical indications, techniques and biomechanics. We have discovered innovations that deliver simplicity to the operating suite and successful clinical outcomes to patients.

In addition to the enhancement of our core line of spinal fusion products, Abbott Spine is strategically focused on the establishment of a more diverse field of solutions for surgeons and patients. In collaboration with surgeon partners, we are dedicated to the exploration of art and science, developing therapies that are less invasive and intervene earlier in the continuum of care, as well as providing improvements for both surgeons and their patients.

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