

# FITBONE® Product Information

Smarter Limb  
Lengthening



# Favorite Implant Technology for Bone growth with Operation support and Networking with Experts

## FITBONE® Smarter Limb Lengthening:

- Cutting edge **German engineering**.
- Several thousand devices implanted since 1997, with an implant-related **technical failure rate of less than 1 %**.
- **No over-reaming** necessary.
- **Accurate and controlled** limb lengthening achieved with three fold visual and audible control feedback.
- **Comfortable lengthening** process facilitated with the small, light weight and silent Control Set.
- There is **no interference** with **magnetic** instruments or devices.
- **Accidental retraction is not possible**.

The FITBONE® was developed in partnership with Prof. Dr. Dr. Baumgart. The product was launched in 1997. Since then, this innovative treatment concept has grown into a global success story.

The FITBONE® TAA intramedullary lengthening system is intended for limb lengthening of the femur and tibia.

With appropriate preoperative planning, it is possible to make axial and torsional corrections as part of limb lengthening.

Reliability / Quality / Experience: several thousand implants since 1997 with an implant related technical failure rate of less than 1%.

## Why the FITBONE® System?



Source: Krieg AH, UKBB Basel

“The potential advantages are many: fewer scars, improved aesthetics, better body image and psychological wellbeing, no irritation through pins and wires, reduced pain, uncommon infections, secondary axial deviation avoided, less joint stiffness, higher activity level during lengthening consolidation, faster rehabilitation, less risk of neurovascular compromise due to wire or screw insertion, and improvement in the ability to work during and after treatment.”

(Hasler CC, Krieg AH. Current concepts of leg lengthening. *J Child Orthop.* 2012;6:89-104)

## All you need for smarter limb lengthening

- The external Control Set consists of control electronics and transmitter. The energy needed for the distraction process is provided to the subcutaneously implanted receiver via the external transmitter. There is no direct connection between implanted receiver and body surface (minimize the infection risk).
- The Control Set can be initiated as early as during surgery, i.e. distraction can be started intraoperatively and runs continuously if required – quick and easy system check during surgery with threefold feedback.
- The patient sends impulses (three times per day) to the implanted receiver during the distraction phase at home.



## All the support you need

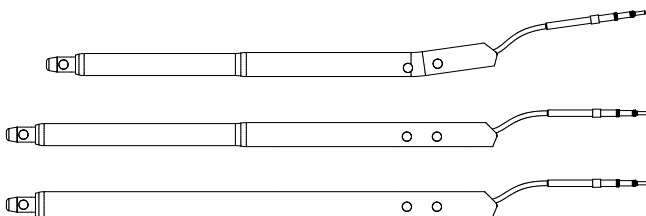
- Training at a “Center of Excellence” ensures a high quality and safety for surgeons and patients
- Assistance with planning of initial cases
- Technical support during surgical procedures
- Regular workshops (FITBONE® User Meetings)
- Networking with FITBONE® experts

# Device portfolio

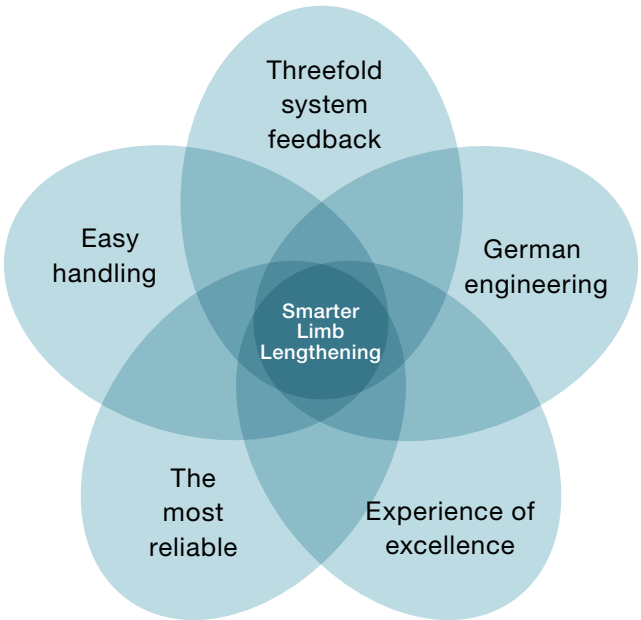
## FITBONE® TAA

Standard lengthening nail:  
standard FITBONE® instruments

TAA	Telescope Active Actuator
<b>Indications</b>	Limb lengthening of the femur and tibia.
<b>Dimension</b>	<ul style="list-style-type: none"><li>· Max. lengthening: 80 mm</li><li>· Diameter: 11 / 12 mm or 13 mm</li><li>· Total length: 205 / 225 / 245 mm</li><li>· Different end piece combinations</li></ul>
<b>Insertion</b>	Retrograde & antegrade

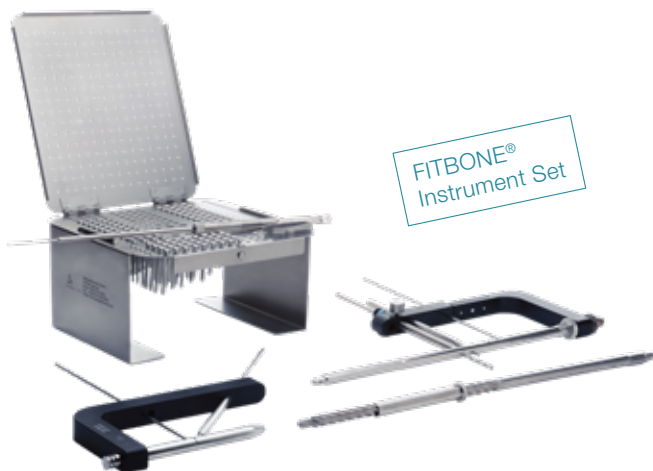


Custom-made devices may be requested by the physician.  
Please contact your local sales representative or WITTENSTEIN  
intens GmbH for further information.



## All the instruments you need

- Starter sets for FITBONE® TAA implant insertion and removal.
- Rigid step reamers fit in the exact implant size: over-reaming is not necessary.
- Radiolucent grid guide to aid achievement of desired axis alignment during surgery.



## COE Concept – Quality and Safety first

Orthopedic surgery centers throughout the world are attending FITBONE® Certification Courses to become experts for the FITBONE® treatment. Due to our excellent technical FITBONE® product and our well-trained surgeons, FITBONE® is one of the safest limb lengthening devices in the world.

### Key Factors

- Long term experience in limb lengthening
- COE Concept enables FITBONE® users to act in the field of limb lengthening on a very high and safe level
- Participation in COE training program and coaching in the Reverse Planning Method invented by Professor R. Baumgart MD, ZEM-Germany.
- Participation in FITBONE® User Meetings
- Sharing experience within the COE network

For more information about the FITBONE®, please contact your local sales representative.

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**Rx Only.**

Please refer to the FITBONE® instructions for use for complete important safety information.

The FITBONE® TAA and the use thereof, may be covered by one or more of US and/or international patents: US 8,425,525, EP 1 658 014, EP 1 994 892. Other U.S. and international patents pending.



**WITTENSTEIN – one with the future**

**www.fitbone-us.com**