Medtronic

SOFAMOR DANEK

BOOMERANG™
VERTE-STACK™ PEEK Vertebral Body Spacer

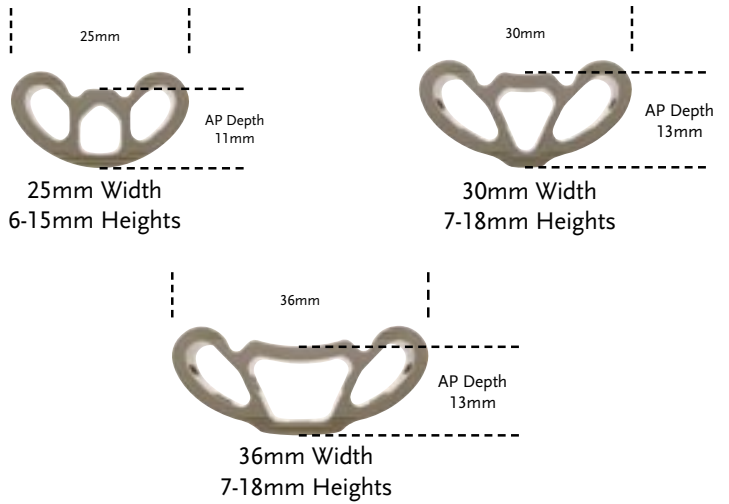
MICHELSON TECHNOLOGY AT WORK

BOOMERANG™
Design Features

– PEEK material
– 25mm, 30mm and 36mm width
– 6mm to 18mm heights
– Anatomical shaped
  (convex surfaces in both saggital and coronal plane)
– 7° lordosis
– Radiographic markers
– Large surface area to reduce subsidence
– Large area for bone graft
– Multiple Inserter attachment options

25mm

AP Depth 11mm

25mm Width
6-15mm Heights

30mm

AP Depth 13mm

30mm Width
7-18mm Heights

36mm

AP Depth 13mm

36mm Width
7-18mm Heights

Alignment Rod 2

Trial Inserter

Pusher

Implant Inserter
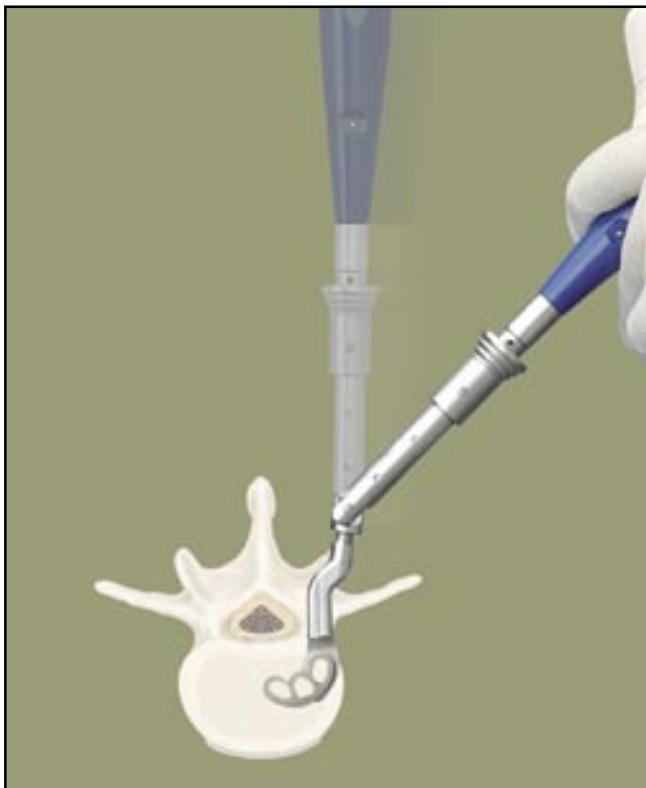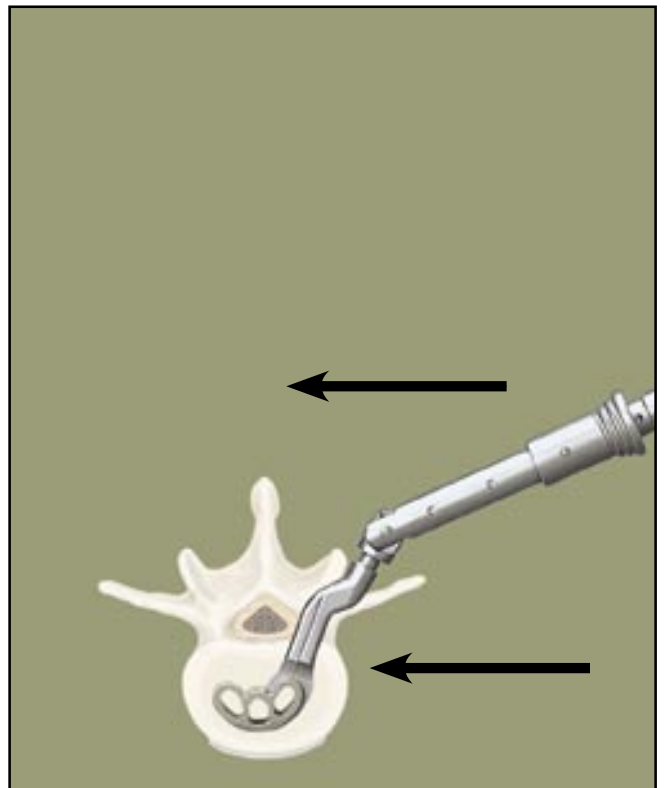
Screwdriver

Alignment Rod 1

STEP 1 Attach the appropriate sized BOOMERANG™ Implant to the Inserter by placing the Implant into the "Claw" on the Inserter and tighten with the Screwdriver.
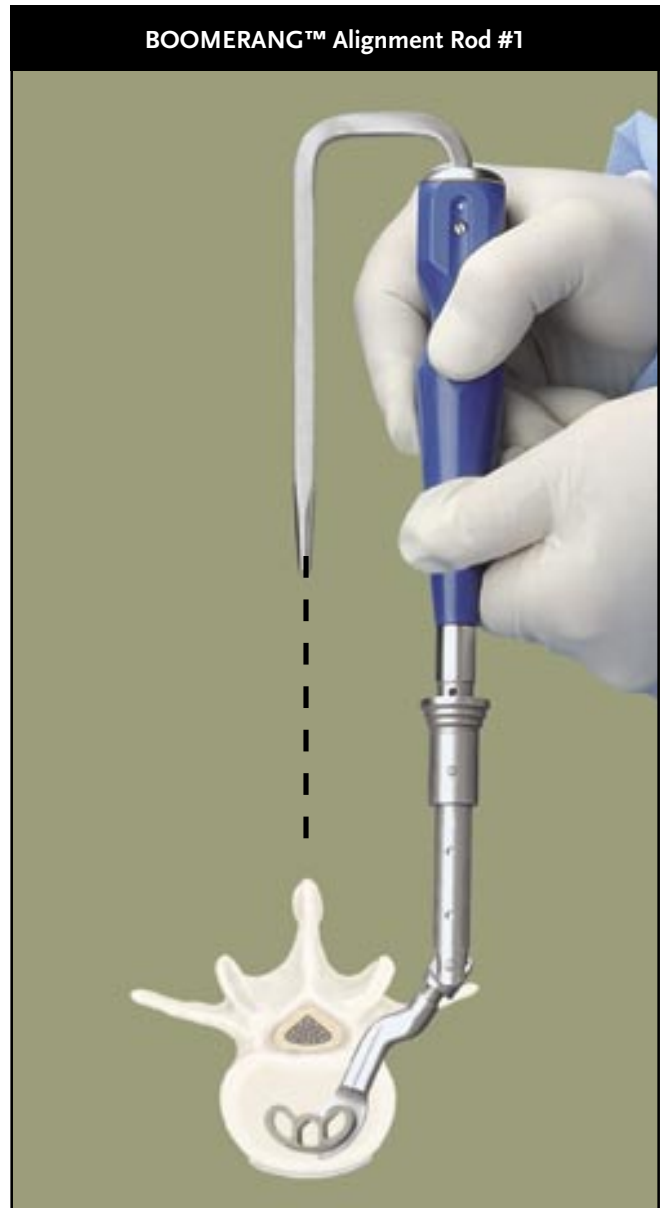

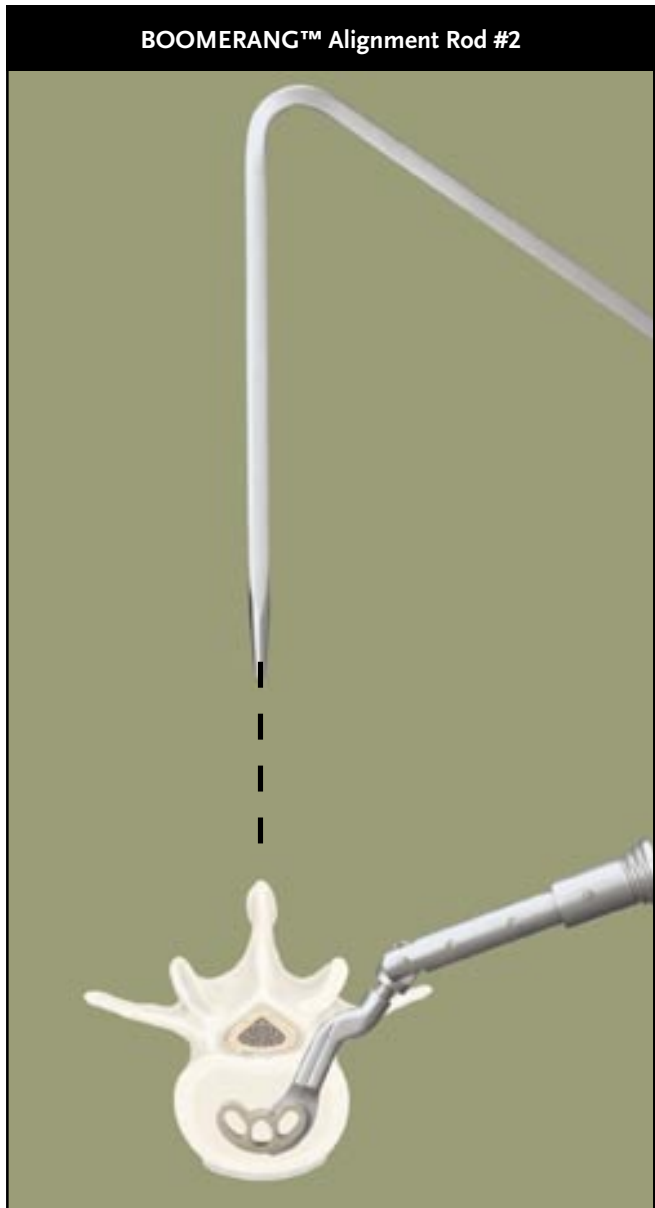**STEP 2** Use the Inserter, in combination with the Pusher, to begin insertion of the BOOMERANG™ Implant into the vertebral body.

STEP 3 Rotate the Inserter Handle to the "second position" and impact BOOMERANG™ Implant across the vertebral body.

BOOMERANG™ Alignment Rod #2

BOOMERANG™ Alignment Rod #1

STEP 4   Use the Alignment Rods to verify the final position of the BOOMERANG™ Implant. Once final position has been verified, remove the Inserter using the Screwdriver.

NOTE: Step 2 and Step 3 may be reversed based on patient anatomy.

PEEK Material Advantages

Radiolucency

- Easier visualization of bone growth
- No scatter or artifact with CTs and MRIs

Biocompatibility
- Long history of usage
  - Dental Implants
  - Heart Valves/Stents
  - Artificial Joints
  - Finger Implants
  - Spinal Implants

Strength
- Offers greater impact resistance
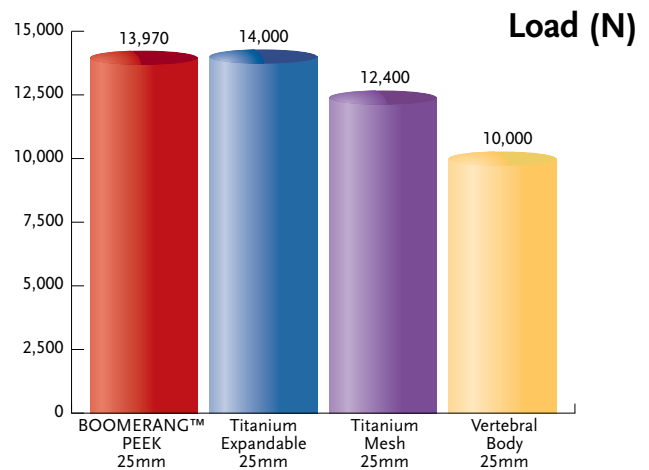- High ultimate strength
- High fatigue strength

Wear Resistance
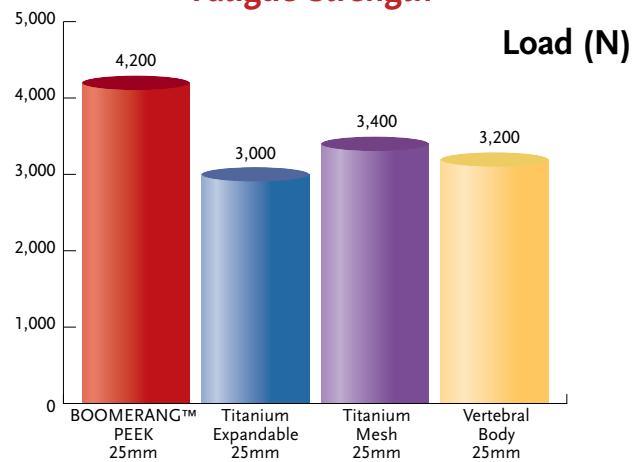- ZERO wear debris was generated during fatigue testing

Modulus of Elasticity
- MOE between cancellous and cortical bone
- Ideal load sharing implant

Ultimate Strength

Load (N)

Material	Load (N)
BOOMERANG™ PEEK 25mm	13,970
Titanium Expandable 25mm	14,000
Titanium Mesh 25mm	12,400
Vertebral Body 25mm	10,000

Fatigue Strength

Load (N)

Material	Load (N)
BOOMERANG™ PEEK 25mm	4,200
Titanium Expandable 25mm	3,000
Titanium Mesh 25mm	3,400
Vertebral Body 25mm	3,200

Elastic Modulus

(GPa)

Material	(GPa)
Ti-6AI-4V	110
Cortical Bone	18
CFRP (Transverse)	8.8
PEEK Material	3.7
Cancellous Bone	0.5-5
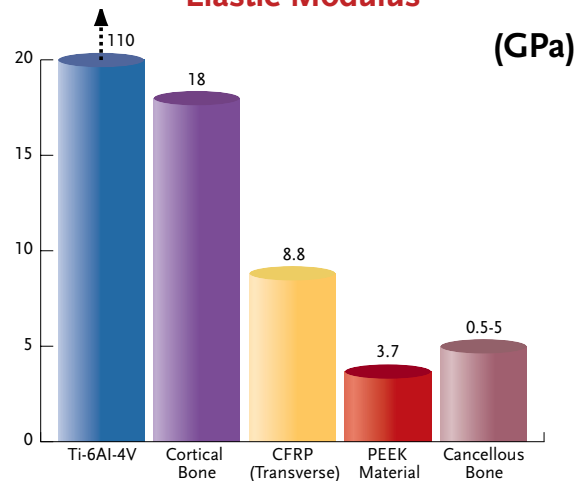
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