Crentec

Bencox®

ID Cemented Stem

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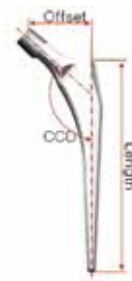
Bencox® ID Cemented Stem

Unified Instrumentation

• Cementless and cemented stem of ID system use same instrumentation.
• This instrumentation maximizes efficiency in the operating room, while still providing intraoperative flexibility.
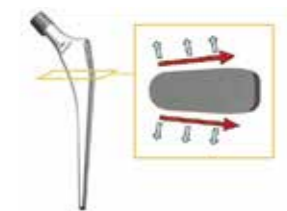
Cementless Stem   Rasp   Cemented Stem

Polished Double Tapered distal geometry-Collarless type

• Generates the radial compressive load in distal body.
• "Taper slip principle" allows the subsidence of the stem.
  - Cement mantle longevity is related to the ability to convert the shear and tension to the compression.
  - Cement is 3 times stronger in compression than in shear or tension.

Normalized Proximal Stress

• Proximally tapered & grooved stem geometry converts the shear forces to compressive load.

Self-Centering Distal Centralizer

• Unifom cement thickness is constructed by four deformable wings of centralizer, which protects the stress concentration due to the thin cement mantle.
• Allows the cemented stem to move distally within the cement applying the compression to the cement.

Enhanced Neck Shape

• Patented trapezoidal neck design allows wide angulation and protects impingement & dislocation.
• Same neck design with Bencox Stem is applied.

Compatible Tapered 12/14 Trunnion

• Adoptation of Bencox Forte & Delta, and Metal heads
• Provides 3 optional offset(Short, Medium, Long).
• Extra long offset provided for Metal heads

Long
Medium
Short

Specifications

Bencox ID Cemented Stem

Size	Length (mm)	Offset (mm)	CCD (degree)	Rasp
2.5	121	35.5		2.5
3	129	39.1		3
5	137	40.4	132°	5
7	145	41.9		7
9	153	44.3		9
11	161	46.7		11

Centralizer

Outer Diameter

Size	Stem No.	Outer Diameter	Unusable Canal Size
2.5	2.5	16	<12
3	3	16	<12
5	5	17.5	<12
7	7	19	<14
9	9	20.5	<14
11	11	22	<16

* Centralizer is included in Bencox ID Cemented Stem package.

Bone Plug

Outer Diameter

Size	Outer Diameter (mm)	Usable Canal Size (mm)
13	13	≤12
20	20	13~19
27	27	20≥