

C-STEM™ VOID CENTRALISER

DESIGN RATIONALE

The literature from Kawate et al¹ demonstrates that three wings on a centraliser gives a sub optimal centralisation effect.

They demonstrated by verification testing that four wings on a centraliser maintains a minimum cement mantle, even when the centraliser is undersized with respect to the diameter of the distal femur. The void centraliser ensures a consistent 2 mm cement mantle.

The centraliser has a void that allows the stem to subside without the distal tip bearing on the internal surface of the centraliser. The design removes the likelihood of end bearing whilst enabling the function of centralisation.

Additionally the centraliser has an aerodynamic profile that reduces the risk of forming air pockets during insertion into the cement mantle.



Void Centraliser

- Optimal Centralisation
- Consistent 2 mm Cement Mantle
- Aerodynamic Profile

What does the Void Centraliser replace?

The Void Centraliser replaces the need for the end cap and distal centraliser for canal sizes greater than 9 mm.

961221000	C-Stem End Cap (Resorbable)
961246000	C-Stem Centraliser (PMMA)
961226000	C-Stem End Cap (PMMA)

Sizing and Attaching Centraliser

The sizing of the centraliser can be done in two ways:

- a Select the size of the centraliser, which corresponds to the diameter of the femoral canal determined by the size of the last reamer used.

Reamer Size	Void Centraliser
10mm, 11mm	Size 10*
12mm, 13mm	Size 12
14mm, 15mm	Size 14
16mm, 17mm	Size 16
18mm, 19mm	Size 18
20mm	Size 20

* For rare cases where the reamer size is less than 10 mm, just use the end cap.

- b Select the size of the centraliser that corresponds to the size of the cement restrictor.

Code	Description Centraliser	Void Size
546010000	PE cement restrictor sz 1	*
546012000	PE cement restrictor sz 2	10
546014000	PE cement restrictor sz 3	12
546016000	PE cement restrictor sz 4	14
546018000	PE cement restrictor sz 5	16
546020000	PE cement restrictor sz 6	18
546022000	PE cement restrictor sz 7	20

*Advise use of end cap only if canal is this narrow

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After selecting the right size of centraliser, slide it over the distal tip of the stem and push the end over the tip of the stem. Ensure that one of the fins is aligned with the lateral edge of the stem.

Ordering Information

961210500	Void Centraliser	Size 10
961212500	Void Centraliser	Size 12
961214500	Void Centraliser	Size 14
961216500	Void Centraliser	Size 16
961218500	Void Centraliser	Size 18
961220500	Void Centraliser	Size 20



References

1. Kawate G, Willbert HG, Ernstberger T, Kohler HP. Centralisation of the femoral component in cemented hip arthroplasty using the guided stem principle. *Arch Orthop Trauma Surg* 1998;117(8):425-9