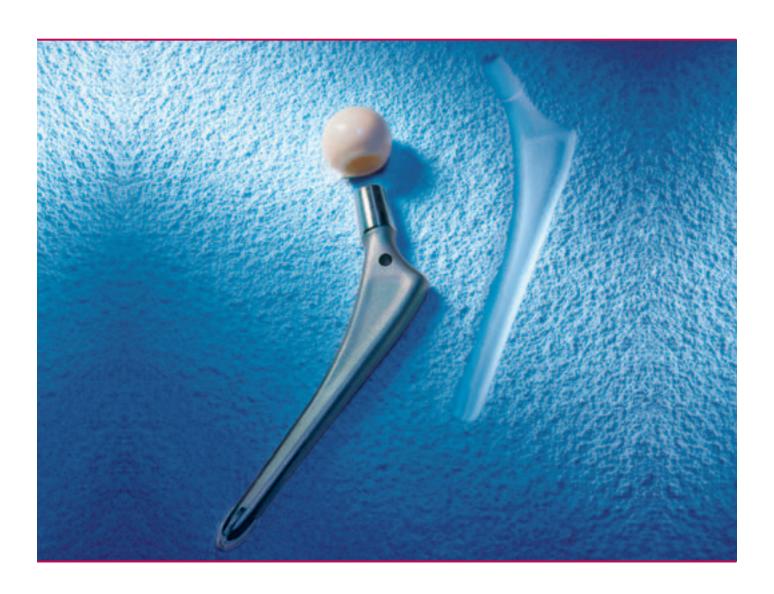
Aesculap Orthopaedics

Centrament®

Hip System





Centrament® features

Centrament® Conzept

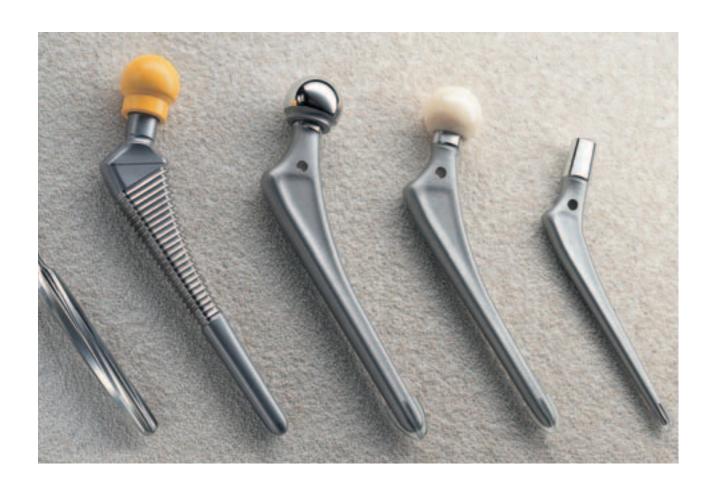
There are a wide range of requirements for cemented hip systems today. With the Centrament* stem concept, an implant has been developed that compliments both the improved cementing techniques and the accepted long term results of different cemented prostheses.

Centrament® Design

The Centrament® stem is of a rounded design, this guarantees a cohesive cement mantle. The distal guide (centralizer), and the specially designed lateral profile assist with the accurate centering of the Centrament® prosthesis stem in the cement bed. Centrament® stems are produced from forged CoCr-alloy Isodur.

Centrament® Surgercy

The Centrament* system is complimented by modular instrumentation, achieving a closed cement mantle around the implant. Combined with the Centrament implants are a range of modular heads and acetabular components, enabling the system to cover a wide range of indications: Total cemented hip replacement, bipolar and hybrid hip arthroplasty.







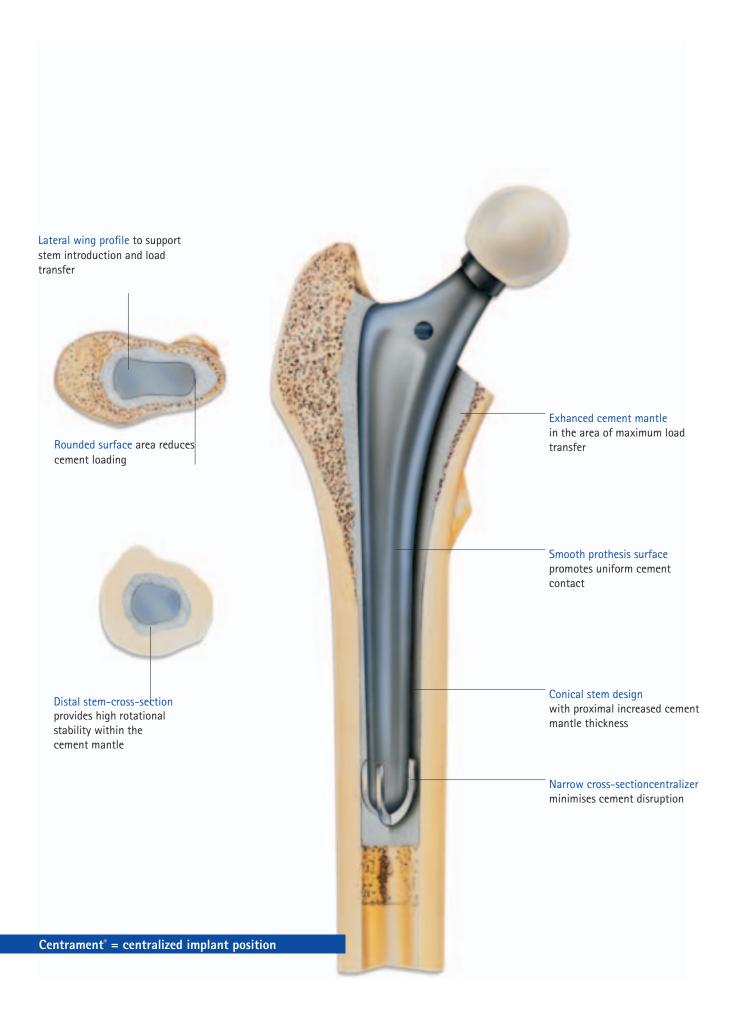


Modular implant components

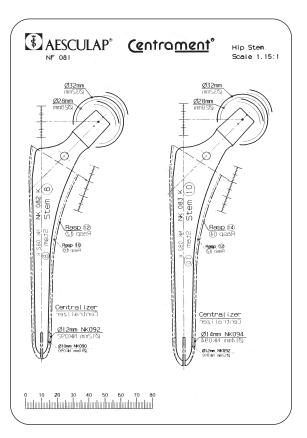
- cemented
- Bipolar
- hybrid







Surgical procedure



For preoperative planning, the likely size of the Centrament prosthesis stem and the size of the centralizer should be determined using X-ray templates. In addition to the contour of the prosthesis stem, the templates also contain the outlines of the cement sheath required for anchoring. The outlines correspond to the rasps which must be used to prepare the prosthesis bed.

Preoperative Planning



The standard resection plane is 58° to the shaft axis. As an exception, the resection plane of the Centrament stem 6 S is 45°, because it is designed for deformation in dysplasia cases. For intraoperative orientation, implants and instruments are provided with appropriate marks which must conform to the resection plane according to the preoperative plan. The templates contain scales for orientation in the region of the greater torchanter and for planning the resection with orientation relative to the minor trochanter.









Centrament® Reamer

The conical reamers are used for preparation of the distal medullary space and are used in ascending order. The reamer 8 is designed for narrow medullary spaces while reamers 10–16 are designed for average ones. The nominal diameter of the largest reamers used corresponds to the distal centralizer to be used.

Centrament® Rasps

The rasps are teethed only in their upper part and are used for proximal preparation of the cementimplant-bed. The rasp is centred in the medullary space via the smooth distal part. Trial heads for trial positioning can be mounted on the modular rasp connector.

Centrament® Stem Selection

The selection of the Centrament* stem depends on the last rasp used. The Centrament* stems are designed so that, with smaller nominal dimensions than that of the rasp, a cohesive cement mantle is always ensured. The minimum cement thickness on the tip of the prosthesis stem is equivalent to half the difference in nominal diameter from the last rasp used. The cement mantle increases progressively in proximal direction.

Centrament® Centralizers

The centralizers consist of PMMA and fit all Centrament stems. The standard size chosen corresponds to the last reamer used. In cases of larger distal medullary space the centralizer can be chosen 2 mm larger.

Instruments and implants





Centrament® stems



6 S	NK081K	140 mm
8	NK082K	150 mm
10	NK083K	155 mm
12	NK084K	160 mm
12 L	NK085K	220 mm
14	NK086K	165 mm

Centralizers



8 mm	NK088
10 mm	NK090
12 mm	NK092
14 mm	NK094
16 mm	NK096
18 mm	NK098

Modular heads



12/14 Biolox® forte

	28 mm	32 mm
kurz	NK460	NK560
mittel	NK461	NK561
lang	NK462	NK562



12/14 Isodur°_F

	22.2 mm	28 mm	32 mm
kurz	-	NK429K	NK529K
mittel	NK330K	NK430K	NK530K
lang	NK331K	NK431K	NK531K
x-lang	-	NK432K	NK532K
xx-lang	-	NK433K	NK533K

Implant materials:

Isodur*_F forged CoCr29Mo alloy / ISO 5832-12

Biolox® forte Al₂O₃ / ISO 6474

PMMA polymethyl methacrylate

Instrument sets



N	F 500 Centrament -rasps consisting of:			
1 1 1 1 2 1 1 1	Centrament rasp 10 Centrament rasp 12 Centrament rasp 14 Centrament rasp 16	NF481R NF482R NF483R NF484R NF485R NG115R NF499R JF511 JG645B	1 trial head, long, diam. 22,2 mm 12/14 mm cone, modular 1 trial head, short, diam. 28 mm 12/14 mm cone, modular 1 trial head, short, diam. 28 mm 12/14 mm cone, modular 1 trial head, short, diam. 28 mm 12/14 mm cone, modular 1 trial head, x-long, diam. 28 mm 12/14 mm cone, modular 1 trial head, xx-long, diam. 28 mm 12/14 mm cone, modular 1 trial head, short, diam. 32 mm 12/14 mm cone, modular 1 trial head, medium, diam. 32 mm 12/14 mm cone, modular 1 trial head, long, diam. 32 mm 12/14 mm cone, modular 1 trial head, x-long, diam. 32 mm 12/14 mm cone, modular 1 trial head, x-long, diam. 32 mm 12/14 mm cone, modular 1 trial head, x-long, diam. 32 mm 12/14 mm cone, modular 1 trial head, x-long, diam. 32 mm	NF327 NF328 NF336 NF337 NF338 NF339 NF343 NF344 NF344 NF347 NF348 NF349 NF353
	Centrament 8,10	NF081		
	Centrament 12,14	NF082		

NF083

NF085

Centrament 6 S

Centrament 12 L





NF 502 Centrament* -instruments consisting of:

1	Centrament-reamer, diam. 8 mm	NF491R
1	Centrament-reamer, diam. 10 mm	NF492R
1	Centrament-reamer, diam. 12 mm	NF493R
1	Centrament-reamer, diam. 14 mm	NF494R
1	Centrament-reamer, diam. 16 mm	NF495R
1	T-handle, HARRIS connection	ND144R
1	starting drill, diam. 8 mm	ND359R
1	stem impactor	ND360R
1	CENTRAMENT guide handle	ND362R
1	basket with supports, diam. 56 mm	NF501R
1	wrapping cloth	JF511
1	identification plate	JG645B

Please order separately:

1	insertion instrument for medullary bone plug	NG702R
1	intermedullary bone plug trephine diam. 8-10 mm	ND185R
1	intermedullary bone plug trephine diam. 10-12.5 mm	ND186R
1	intermedullary bone plug trephine diam. 12.5-15 mm	ND187R
1	intermedullary bone plug trephine diam. 15-18 mm	ND189R



AESCULAP®

All it takes to operate.



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Brochure No. 0 099 02 1004/1/1