

Omnifit-HA

Overview

A stem demonstrating clinical excellence

- 12 years experience with the stem geometry
- 5 years of proven HA clinical experience

Normalizations on the anterior and posterior stem faces

- Transforms hoop and shear stresses to more biocompatible compressive stress
- Provides potential for more efficient load transfer
- Helps resist medial migration and subsidence

C-Taper Neck

- Compatible with 22, 26, 28 and 32mm LFIT[®] C-Taper femoral bearings and 26, 28 and 32mm Osteonics C-Taper Zirconia Ceramic Bearings

Proportional Sizing

- Based on extensive x-ray analysis and confirmed with twelve years of clinical success, proportionality is the key to the versatility of the Osteonics Hip System. Proportionality provides the ability to match a patient’s specific biomechanical needs with a proportional implant.

Maximized Proximal Projected Area

- Reduces stresses that can cause stem loosening
- Increases resistance to rotation

Threaded Drive Hole**

- Facilitates placement and extraction of stem

Collarless Design

- Improves insertional visibility and allows proper seating of the implant

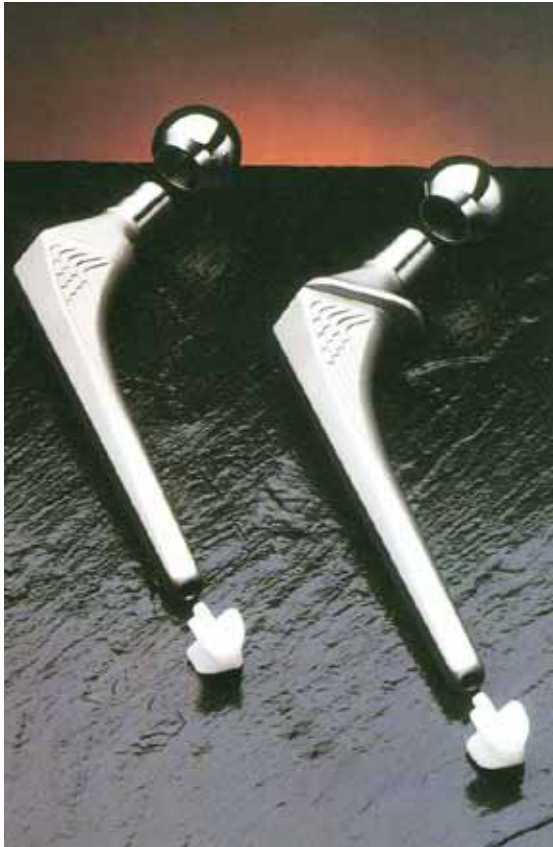


**U.S. Patent 4,919,679

Number Catalog	Stem Size	Base Neck Length (mm)	Distal Tip Diameter (mm)	Stem Length (cm)
6017-0425	4	25	8.1	10
6017-0525	5	25	8.9	11
6017-0625	6	25	9.6	12
6017-0730	7	30	10.4	13
6017-0830	8	30	11.2	14
6017-0935	9	35	11.9	15
6017-1035	10	35	12.7	16
6017-1140	11	40	13.5	17
6017-1240	12	40	14.7	17
6017-1340	13	40	16.0	17
6017-1440	14	40	17.2	17

Omnifit

Overview



Normalizations

- Increase load carrying capabilities.
- Increase resistance to medial migration, subsidence and consequent hoop stress.
- Converts shear to compressive stress.

Proportional Stem Sizing

- Provides proportional increases in head offset, neck length, stem length, distal diameter, and proximal projected area coincident with stem size.
- Allows for optimal patient fit. Restores appropriate hip biomechanics.

Projected Area

- Increased proximal stem geometry to better fit the canal.
- Provides increased resistance to torsional forces.
- Amplifies proximal load transfer.

Universal Reinforced Distal Cement Spacers

- Centralizes the distal stem in varying canal sizes.
- Promotes neutral stem alignment for optimal stem biomechanical function and even cement stress distribution.
- Ensures a homogeneous PMMA cement mantle.
- Imbedded cobalt chromium alloy wire increases overall spacer strength.
- Sizes range from 8mm to 25mm.

HIP'ed Cobalt Chromium Alloy

- Increases overall implant fatigue strength.

Collared and Collarless option

Osteonics Omnifit Normalized Hip Stem - Collared

Number Catalog	Stem Size	Base Neck Length (mm)	Distal Tip Diameter (mm)	Stem Length (cm)	Minimum Distal Cement Spacer Size (mm)
6034-0425	4	25	8.1	100	8
6034-0525	5	25	8.9	110	8
6034-0625	6	25	9.6	120	9
6034-0730	7	30	10.4	130	10
6034-0830	8	30	11.2	140	11
6034-0935	9	35	11.9	150	11
6034-1035	10	35	12.7	160	12
6034-1140	11	40	13.5	170	13

Osteonics Omnifit Normalized Hip Stem - Collarless

Number Catalog	Stem Size	Base Neck Length (mm)	Distal Tip Diameter (mm)	Stem Length (cm)	Minimum Distal Cement Spacer Size (mm)
6034-0425	4	25	8.1	100	8
6034-0525	5	25	8.9	110	8
6034-0625	6	25	9.6	120	9
6034-0730	7	30	10.4	130	10
6034-0830	8	30	11.2	140	11
6034-0935	9	35	11.9	150	11
6034-1035	10	35	12.7	160	12
6034-1140	11	40	13.5	170	13
6017-1240	12	40	14.7	17	14
6017-1340	13	40	16.0	17	16

Omnifit Long Stem-HA
Overview

Howmedica Osteonics Omnifit® Cemented Long Stem

Implant Catalog Number	Trial Catalog Number	Stem/Trial Size	Neck Length (mm)	Distal Diameter (mm)	Stem Length (mm)
6088-0525-200L/R	6188-0525-200L/R	5	25	10.9	200
6088-0525-250L/R	6188-0525-250L/R	5	25	10.9	250
6088-0525-300L/R	N/A	5	25	10.9	300
6088-0730-200L/R	6188-0730-200L/R	7	30	12.4	200
6088-0730-250L/R	6188-0730-250L/R	7	30	12.4	250
6088-0730-300L/R	N/A	7	30	12.4	300
6088-0935-200L/R	6188-0935-200L/R	9	35	14.0	200
6088-0935-250L/R	6188-0935-250L/R	9	35	14.0	250
6088-0935-300L/R	N/A	9	35	14.0	300
6088-1140-200L/R	6188-1140-200L/R	11	40	15.5	200
6088-1140-250L/R	6188-1140-250L/R	11	40	15.5	250
6088-1140-300L/R	N/A	11	40	15.5	300



Left/Right Trial Instrument Trays: Catalog Numbers – 6188-4000L/R

C-Taper Femoral Neck

- Compatible with 22, 26, 28 and 32mm CoCr C-Taper and 32mm Howmedica Osteonics C-Taper Zirconia Ceramic Heads.

Proportional Stem Sizing

- Proportional sizing increases head offset, neck length, stem length, distal diameter and proximal projected area as stem sizes increase.

Allows for optimal patient fit while

- restoring appropriate hip biomechanics.

Projected Area

- Increased proximal geometry to better fit the canal.
- Increases resistance to torsional forces.
- Maximizes proximal load transfer.
- Reduces stresses that can cause stem/cement interface breakdown and stem loosening.

Normalizations

- Clinically proven over 15 years, this Howmedica Osteonics design concept improves load transfer and minimizes stem migration by converting shear stresses into compressive stresses.

Anatomic Anterior Bow

- Replicates proximal femoral anteversion and provides for more accurate conformity of the stem to the canal.

Version Control Insertion Hole

- Allows version control during stem insertion with use of version control instrument (Cat. no. 1119-3000).

Howmedica Osteonics Omnifit Cemented Long Stem System can address:

- Fracture non-unions
- Failure of internal fixation devices
- Oncology surgery