



## **Fusion Taper System**

# Fusion Taper System

The Signature Orthopaedics Fusion Taper System introduces the Fusion Trunnion which is longer in length than Signature's current taper system, increasing the head-sleeve contact area by 40%

# Fusion Taper System

The increased contact area and length is intended to strengthen the head-sleeve-stem connections, which will reduce micromovement at these interfaces and hence minimise the risk of fretting corrosion

The stem's trunnion also has a smoother finish than most traditional tapers, encouraging cold welding to occur between the stem's trunnion and taper sleeve of like materials, which also contributes to minimising corrosion

# Fusion Taper System

The Signature Orthopaedics Fusion Taper System Instrument system is an optimised instrument set for implantation of the Signature Orthopaedics Fusion Taper System.

The Fusion Taper System implant and instrument set minimizes the number of trials - reducing the overall number of instruments and minimising the size and weight of the instrument tray.

This is achieved by utilising modular components of heads and sleeves for a complete head offset range of configurations from -4mm to +8mm without compromising the taper connection



# Fusion Taper System features



Full Head offset range

Multiple Head Materials

Cobalt chrome

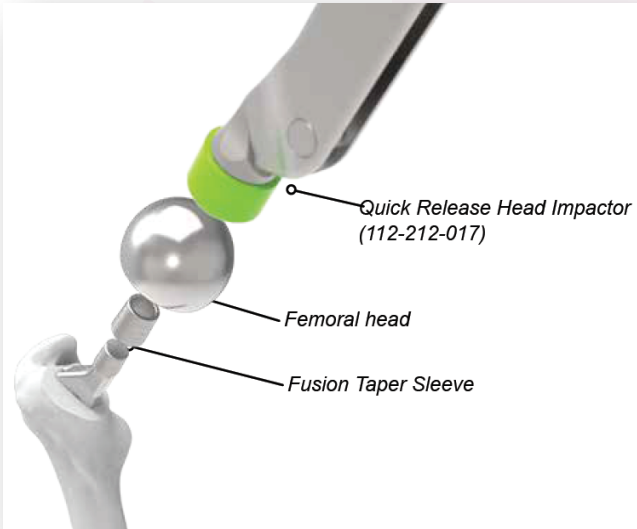
High nitrogen stainless steel

Ceramic

12/14 Taper

Compatible with Ceramic  
components

# Femoral Head and Sleeve impaction



Confirm joint stability and range of motion with final trial reduction

Clean and dry stem taper to remove any particulate matter or debris

Place the femoral head and sleeve onto the taper and lightly tap using the Head Impactor

Ensure that bearing surfaces are clean and finally reduce the hip

# Femoral Head and Sleeve removal

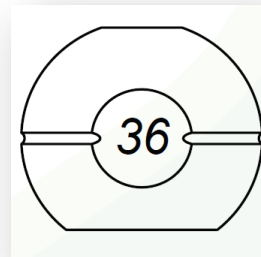


To remove the sleeve from the stem use the Taper Sleeve Remover instrument by placing it in the sleeve and rotating the handle until the Sleeve is released

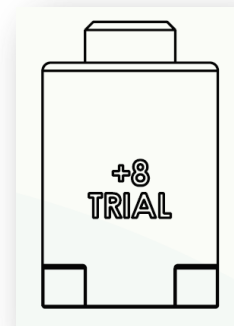
To remove the head from the stem simply tap the head bottom using a bone punch

# Fusion Taper System trials

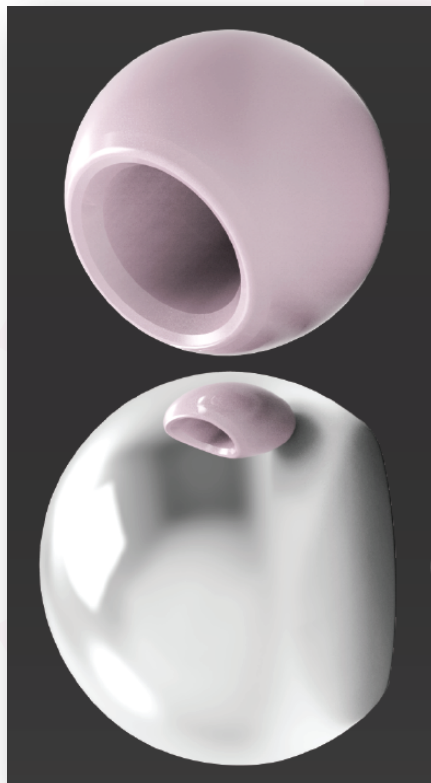
112-32-0239 Fusion 28mm Trial Head  
112-32-0240 Fusion 32mm Trial Head  
112-32-0241 Fusion 36mm Trial Head  
112-32-0242 Fusion 40mm Trial Head



112-32-0244 Fusion -4mm Trial Sleeve  
112-32-0245 Fusion -2mm Trial Sleeve  
112-32-0243 Fusion 0mm Trial Sleeve  
112-32-0246 Fusion +2mm Trial Sleeve  
112-32-0247 Fusion +4mm Trial Sleeve  
112-32-0248 Fusion +6mm Trial Sleeve  
112-32-0249 Fusion +8mm Trial Sleeve



# Fusion Taper implants - Heads



111-37-0028

Ø28mm CoCr

111-37-0032

Ø28mm CoCr

111-37-0036

Ø28mm CoCr

111-37-0040

Ø32mm CoCr

111-22-0511

Ø28mm Ceramic

111-22-0512

Ø32mm Ceramic

111-22-0513

Ø36mm Ceramic

111-22-0514

Ø40mm Ceramic

111-37-2028

Ø28mm Stainless Steel

111-37-2032

Ø32mm Stainless Steel

111-37-2036

Ø36mm Stainless Steel

111-37-2040

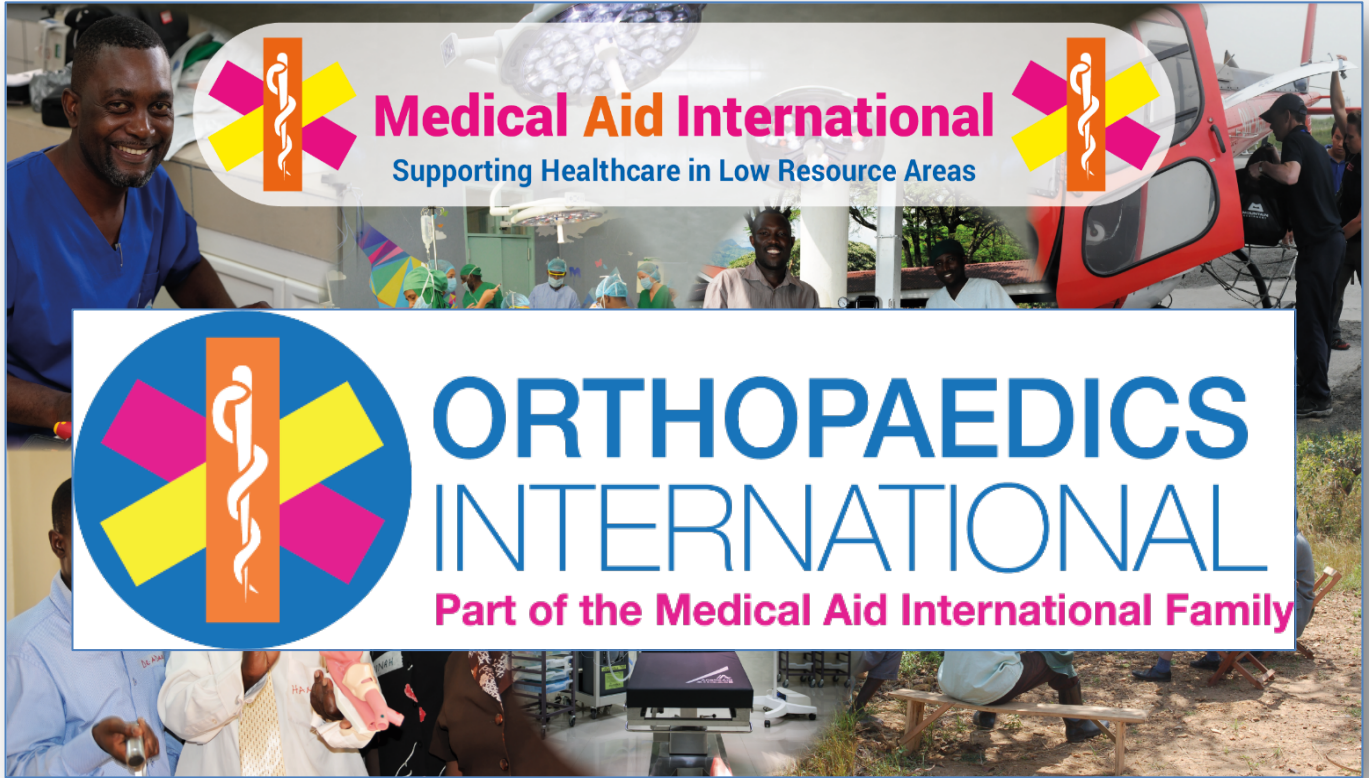
Ø40mm Stainless Steel



# Fusion Taper implants - Sleeves




111-37-0001	-4mm
111-37-0006	-2mm
111-37-0002	0mm
111-37-0007	+2mm
111-37-0003	+4mm
111-37-0008	+6mm
111-37-0004	+8mm
111-37-0005	+8mm (Extended)

# Thank you



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INTERNATIONAL**  
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