



# Aria Uncemented Stem

# Aria Uncemented Stem



Launched in 2015

Supplied over 1,000  
worldwide

FDA approved

CE marked

Pre-entry ODEP rated

# Aria features



Clinically proven geometry,  
material and coating  
(Ti6Al4V with titanium  
plasma spray coating)

Threaded proximal feature  
aids in positioning and  
removal

# Aria features

1. 12/14 Taper

2. Standard and High offset versions

3. Low-profile lateral shoulder

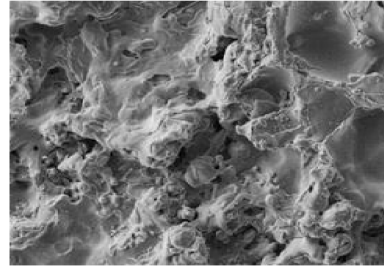
4. Tapered geometry

Wedge-shaped stem improves initial fixation and proximal bone loading





# World Knee design



Aria coating x100

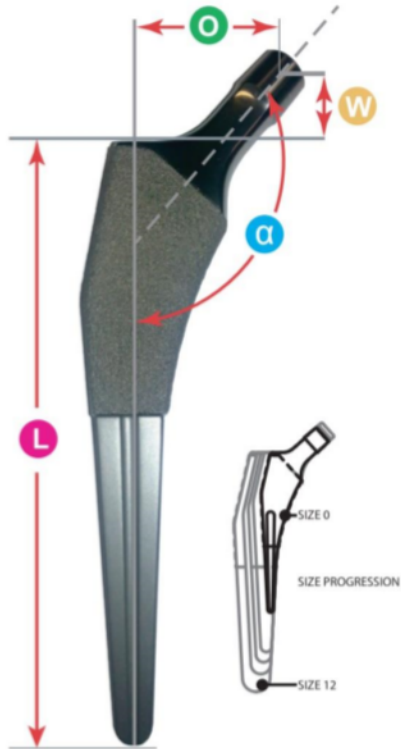
## 5. Titanium Plasma Spray coating

Tensile Strength  $> 22\text{MPa}$

Shear Strength  $> 22\text{MPa}$

Coating Thickness 195-255  
microns

# Aria Stem Sizing Table



STANDARD OFFSET

SIZE	L	W	O	$\alpha^\circ$
0	128	11.4	35.6	132
1	130	12.7	38.7	132
2	133	13.4	40.0	132
3	136	13.4	40.7	132
4	138	14.0	42.0	132
5	140	14.0	42.7	132
6	143	14.0	43.3	132
7	145	14.0	43.9	132
8	148	16.1	46.8	132
9	151	16.1	47.4	132
10	153	43.4	48.0	132
11	158	16.1	49.3	132
12	163	16.1	50.5	132

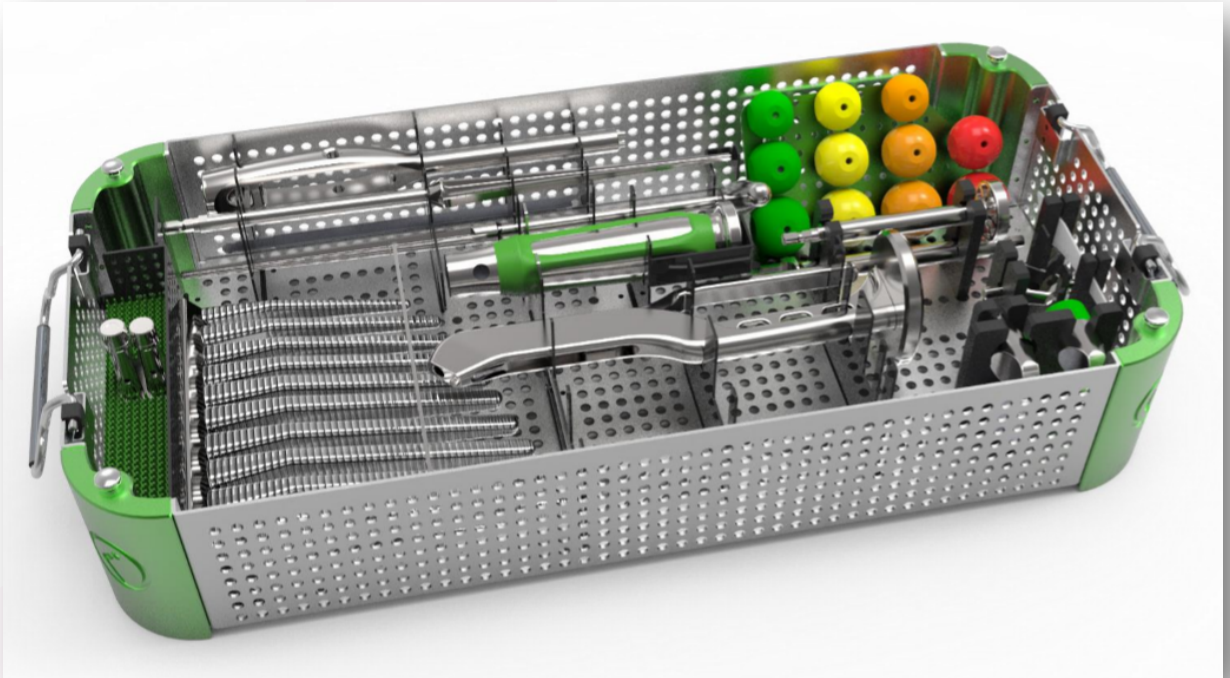
HIGH OFFSET

SIZE	L	W	O	$\alpha^\circ$
0	128	11.4	41.6	132
1	130	12.7	44.7	132
2	133	13.4	46.1	132
3	136	13.4	46.7	132
4	138	14.0	48.1	132
5	140	14.0	48.7	132
6	143	14.0	49.3	132
7	145	14.0	49.9	132
8	148	16.1	52.8	132
9	151	16.1	53.4	132
10	153	43.4	54.0	132
11	158	16.1	55.3	132
12	163	16.1	56.5	132

# Aria Head Sizing Table

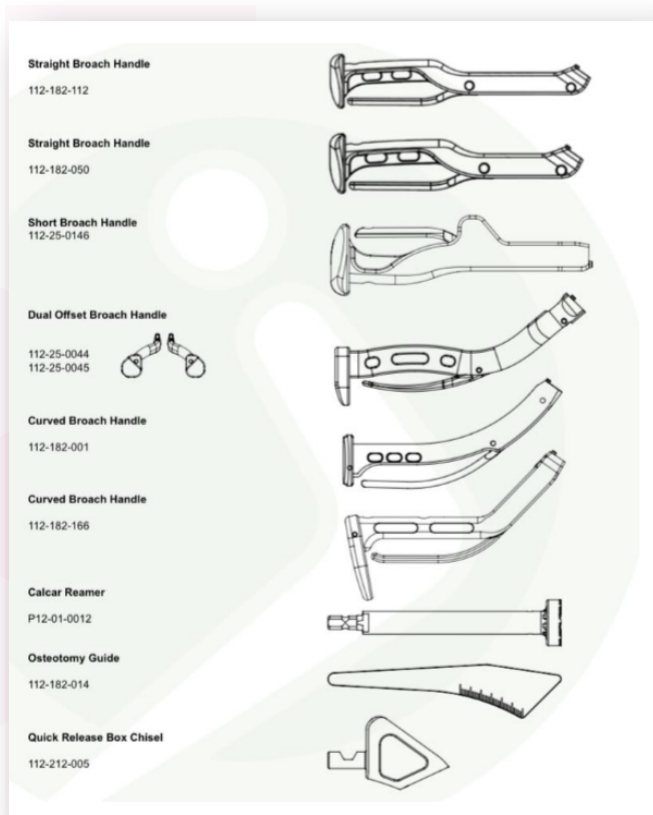
		Ø28	Ø32	Ø36	Ø40
<b>S</b>	SS CrCo Ceramic	-3.5	-4.0	-4.0	-4.0
<b>M</b>	SS CrCo Ceramic	+0.0	+0.0	+0.0	+0.0
<b>L</b>	SS CrCo Ceramic	+4.0	+4.0	+4.0	+4.0
<b>XL</b>	SS CrCo Ceramic		+8.0	+8.0	+8.0

# One tray of instruments



Tailored rasp handles for different approaches

# Aria Instruments



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## Aria Instruments

### Straight Broach Handle

112-182-032



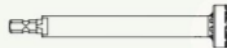
### Curved Broach Handle

112-182-001



### Calcar Reamer

P12-01-0012



### Osteotomy Guide

112-34-0002



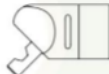
### Quick Release Box Chisel

112-212-005



### Quick Release Head Impactor

112-212-017



### Quick Release Stem Impactor

112-212-006



### Stem Positioner

112-182-027  
112-182-028

Outer  
Inner



### Modular Stem Impactor

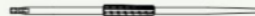
112-25-0080  
112-25-0092  
112-25-0093

Curved  
Offset  
Bullet Tip



### Trochanteric Canal Reamer

112-212-022



### Stem Positioner UniBody

112-212-026



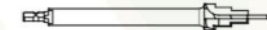
### Canal Reamer

112-212-023



### Stepped Entry Reamer

112-162-001



### IM Drill

112-182-087



### Tapered Pin Reamer

112-182-013



### Starter Broach

112-34-0001



### Femoral Head Extractor

112-182-117



# Aria Rasps and Trials

## Aria Broaches

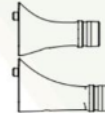
111-20-6200	Size 0	111-20-6903	Size 3
111-20-6201	Size 1	111-20-6904	Size 4
111-20-6202	Size 2	111-20-6905	Size 5
111-20-6203	Size 3	111-20-6906	Size 6
111-20-6204	Size 4	111-20-6907	Size 7
111-20-6205	Size 5	111-20-6908	Size 8
111-20-6206	Size 6	111-20-6909	Size 9
111-20-6207	Size 7	111-20-6910	Size 10
111-20-6208	Size 8	111-20-6911	Size 11
111-20-6209	Size 9	111-20-6912	Size 12
111-20-6210	Size 10		
111-20-6211	Size 11		
111-20-6212	Size 12		

## Aria Trial Necks

111-20-6250	Size 0 Standard Offset
111-20-6260	Size 0 High Offset
111-20-6251	Size 1 Standard Offset
111-20-6261	Size 1 High Offset
111-20-6252	Size 2-3 Standard Offset
111-20-6262	Size 2-3 High Offset
111-20-6253	Size 4-7 Standard Offset
111-20-6263	Size 4-7 High Offset
111-20-6254	Size 8-12 Standard Offset
111-20-6264	Size 8-12 High Offset

## Trial Femoral Heads

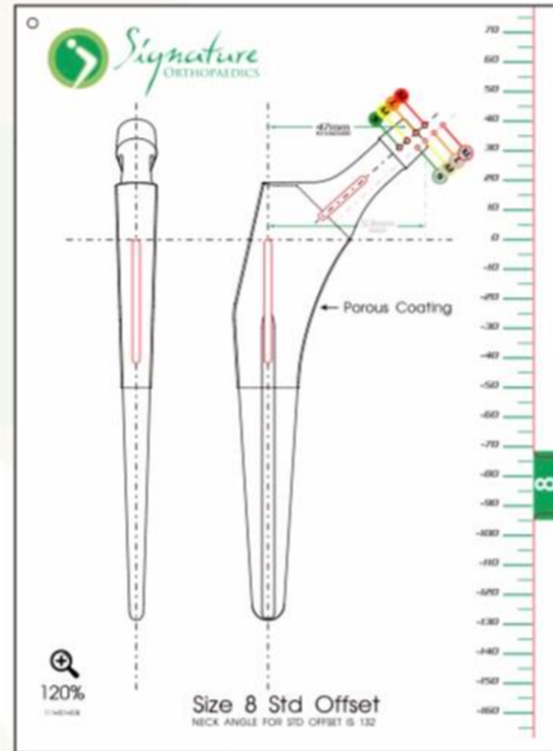
112-35-0003*	Ø22mm -3.5mm Green
112-35-0004*	Ø22mm 0.0mm Yellow
112-35-0005*	Ø22mm +3.5mm Orange
111-182-040	Ø28mm -3.5mm Green
111-182-041	Ø28mm 0.0mm Yellow
111-182-042	Ø28mm +3.5mm Orange
111-182-017	Ø32mm -4.0mm Green
111-182-018	Ø32mm 0.0mm Yellow
111-182-019	Ø32mm +4.0mm Orange
111-182-020	Ø32mm +8.0mm Red
111-182-021	Ø36mm -4.0mm Green
111-182-022	Ø36mm 0.0mm Yellow
111-182-023	Ø36mm +4.0mm Orange
111-182-024	Ø36mm +8.0mm Red
111-182-043	Ø40mm -4.0mm Green
111-182-044	Ø40mm 0.0mm Yellow
111-182-045	Ø40mm +4.0mm Orange
111-182-046	Ø40mm +8.0mm Red



# X-ray templates

## Aria Preoperative Templates

111-201-500	Size 0 Template
111-201-501	Size 1 Template
111-201-502	Size 2 Template
111-201-503	Size 3 Template
111-201-504	Size 4 Template
111-201-505	Size 5 Template
111-201-506	Size 6 Template
111-201-507	Size 7 Template
111-201-508	Size 8 Template
111-201-509	Size 9 Template
111-201-510	Size 10 Template
111-201-511	Size 11 Template
111-201-512	Size 12 Template





# Broaching tips

It is better to stop broaching when stability is achieved with a slightly countersunk broach than to attempt to force as oversized broach into the canal. The coating limit line on the implant stem will sit below the resection line but the stem will achieve exceptional stability. Consider a longer neck or higher head offset.

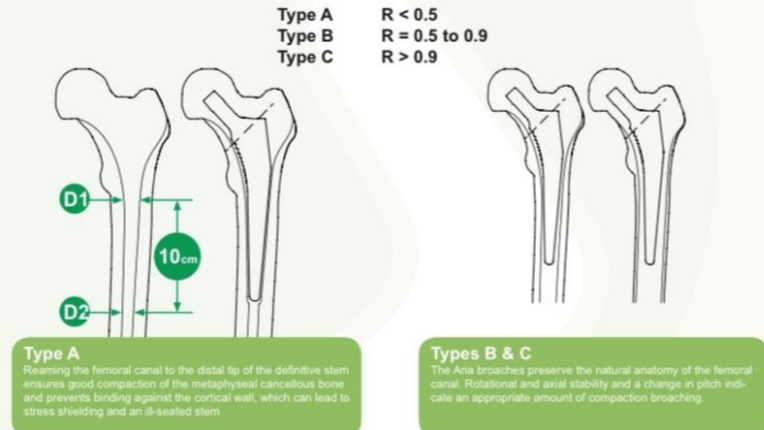
## Managing Different Femoral Canal Geometries

The Dorr femur type system classifies femurs based on a ratio that relates to the geometry of the femoral canal:

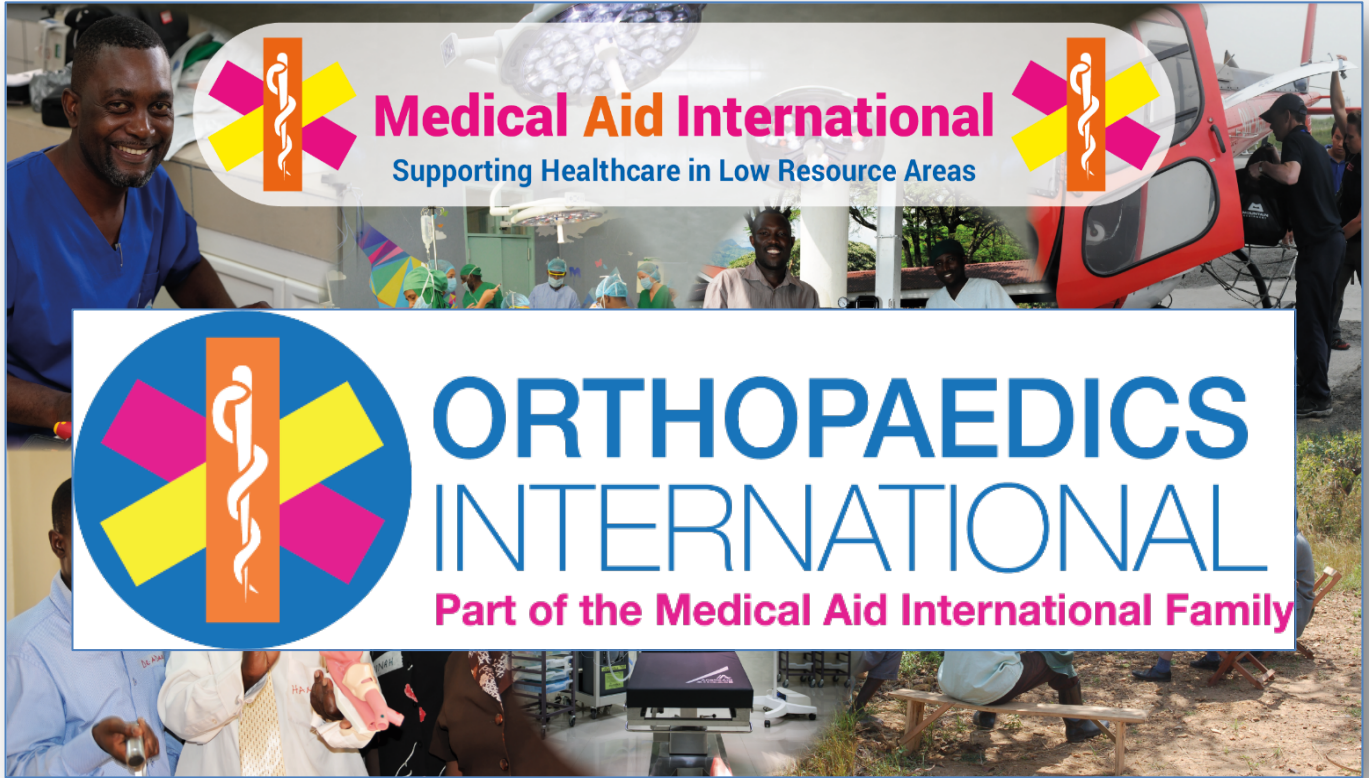
$$R = D_2/D_1$$

see figures at the bottom left

An R-value less than ~0.5 implies a very fluted canal that will more likely bind distally if the canal is not over-reamed. Preoperative templating is especially important for this reason. Refer to the Aria Implant Sizing guide in this technique to help decide what size reamer to use. The three types are as follows.



# Thank you



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