

## MetaFix™ overview:

MetaFix is a fully HA coated stem based on clinically proven femoral stem design which was developed in France during the early 1980s by the ARTRO Group, who trained together in Lyon. It is available collarless in 3 neck offerings, standard 125°, standard 135° and direct lateralised 135° and collared in 4 neck offerings, standard 125°, standard 135° and 125° & 135° short neck options.



## Three key selling points for MetaFix™

### 1. Proven stem design

Evolved from number one philosophy in the market, MetaFix™ provides confidence in stem stability across multiple indications

### 2. Versatility

#### Collarless

- 3 neck offset options available in 11 sizes provide 33 stem solutions

#### Collared

- 2 neck offsets available in 10 sizes and two different neck lengths provides 24 stem solutions

### 3. Simplicity

Specialised, high performance instrumentation platform allows for simple, accurate implantation and reproducible results

## 1. What material is MetaFix™ made of?

Titanium. This does not contain any nickel, below is the chemical composition of the titanium used

	ASTM F136 Section 7, Table 3 Compositional limits % (mass/mass)
Aluminium	5.5-6.50
Vanadium	3.5-4.5
Iron	0.25 Max
Oxygen	0.13 Max
Carbon	0.08 Max
Nitrogen	0.05 Max
Hydrogen	0.012 Max <sup>A</sup>
Titanium	Balance

A) Material 0.032in (0.813mm) and under may have hydrogen content up to 0.015 %

## 2. What is the coating and what is its thickness?

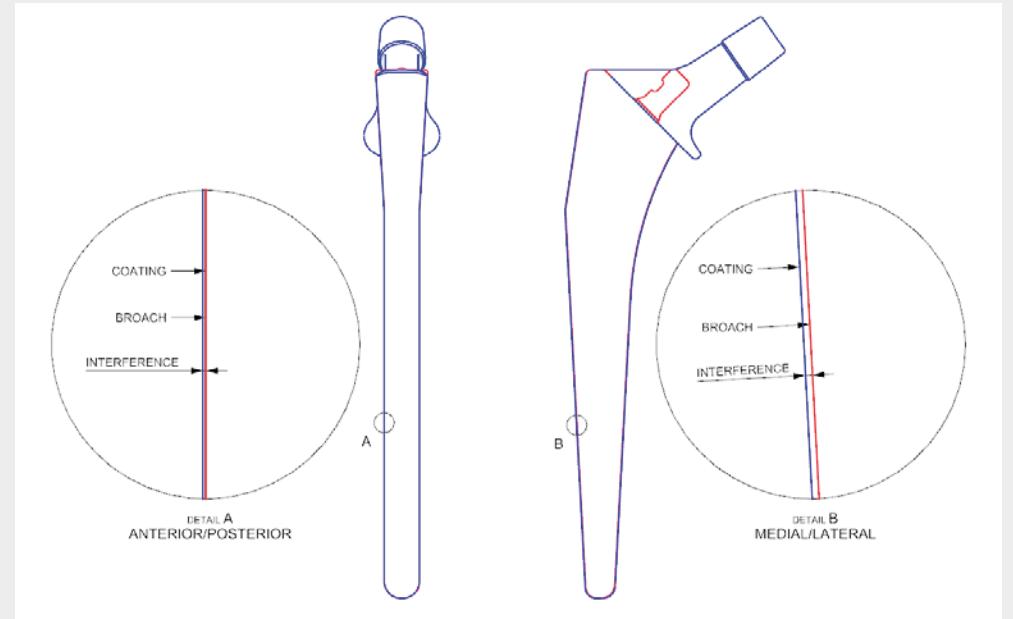
MetaFix™ has a HA coating 155µm thick.

## 3. What is the press-fit of a MetaFix™?

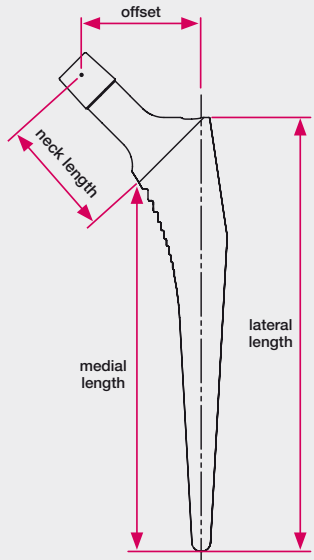
The Metafix collarless and collared stems will have the same press-fit.

A/P press-fit = 0.11 mm

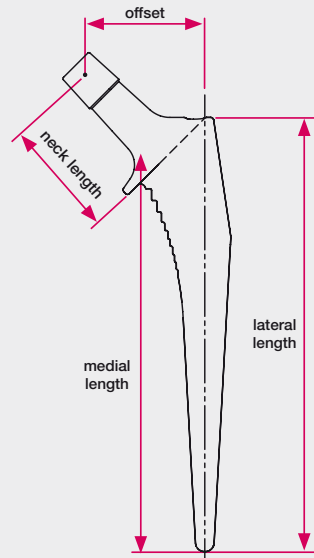
M/L press-fit = 0.31 mm



#### 4. What are the stem lengths, offset and neck lengths for MetaFix™?



size	medial stem length (mm)	lateral stem length (mm)	standard 135° collarless		lateralised 135° collarless		standard 125° collarless	
			offset (mm)	neck length (mm)	offset (mm)	neck length (mm)	offset (mm)	neck length (mm)
0	94	115	38.0*	38.5*	44.0*	42.7*	43.0*	37.9*
1	109	130	38.5	38.5	44.5	42.7	43.5*	37.9*
2	118	140	39.0	38.5	45.0	42.7	44.0	37.9
3	124	145	40.0	38.5	46.0	42.7	45.5	37.9
4	129	150	41.0	38.5	46.5	42.7	46.0	37.9
5	133	154	41.5	38.5	47.5	42.7	46.5	37.9
6	139	160	42.0	38.5	48.0	42.7	47.0	37.9
7	144	165	42.5	38.5	48.5	42.7	48.0	37.9
8	149	170	43.5	38.5	49.5	42.7	49.0	37.9
9	159	180	44.5	38.5	50.5	42.7	50.0	37.9
10	168	190	45.5	38.5	51.5	42.7	51.0	37.9



size	medial stem length (mm)	lateral stem length (mm)	standard 135° collared		short 135° collared		standard 125° collared		short 125° collared	
			offset (mm)	neck length (mm)	offset (mm)	neck length (mm)	offset (mm)	neck length (mm)	offset (mm)	neck length (mm)
0	94	115	38.0*	38.5*	33.0*	31*	-	-	-	-
1	109	130	38.5	38.5	33.5	31	43.5*	37.9*	38.0*	30.5*
2	118	140	39.0	38.5	33.5	31	44.0	37.9	38.0	30.5
3	124	145	40.0	38.5	-	-	45.5	37.9	-	-
4	129	150	41.0	38.5	-	-	46.0	37.9	-	-
5	133	154	41.5	38.5	-	-	46.5	37.9	-	-
6	139	160	42.0	38.5	-	-	47.0	37.9	-	-
7	144	165	42.5	38.5	-	-	48.0	37.9	-	-
8	149	170	43.5	38.5	-	-	49.0	37.9	-	-
9	159	180	44.5	38.5	-	-	50.0	37.9	-	-

\* not available in the USA

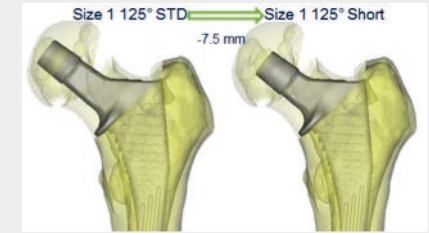
## 5. What is the difference between standard neck and short neck in the collared version?

The neck length of the short version is 7.5mm less than the standard.

5 shorts necks are available:

- Size 1 and 2 125°\*
- Size 0, 1 and 2 135°\*

\* Size 0 135° short neck and size 1 125° short neck are not available in US.



## 6. What is the effect on leg length and offset in changing the head offset?

COLLARLESS PART NO	COLLARED PART NO	SIZE & OFFSET DESCRIPTION	HORIZONTAL HEAD OFFSETS					VERTICAL HEAD OFFSETS				
			-8.0 HEAD	-4.0 HEAD	0.0 HEAD	+4.0 HEAD	+8.0 HEAD	-8.0 HEAD	-4.0 HEAD	0.0 HEAD	+4.0 HEAD	+8.0 HEAD
NOT AVAILABLE	579.0200	SIZE 0 STD 135° SHORT NECK	27.1	30.0	32.8	35.6	38.5	24.6	27.5	30.3	33.1	36.0
NOT AVAILABLE	579.0201	SIZE 1 STD 135° SHORT NECK	27.7	30.5	33.4	36.2	39.0	24.7	27.5	30.3	33.2	36.0
NOT AVAILABLE	579.0202	SIZE 2 STD 135° SHORT NECK	27.8	30.7	33.5	36.3	39.2	24.8	27.6	30.4	33.3	36.1
579.0000	579.0100	SIZE 0 STD 135°	32.4	35.3	38.1	40.9	43.8	29.7	32.5	35.4	38.2	41.0
579.0001	579.0101	SIZE 1 STD 135°	33.0	35.8	38.7	41.5	44.3	30.0	32.8	35.6	38.5	41.3
579.0002	579.0102	SIZE 2 STD 135°	33.1	36.0	38.8	41.6	44.5	30.1	32.9	35.7	38.6	41.4
579.0003	579.0103	SIZE 3 STD 135°	34.3	37.2	40.0	42.8	45.7	29.9	32.7	35.5	38.4	41.2
579.0004	579.0104	SIZE 4 STD 135°	35.2	38.0	40.8	43.6	46.5	29.9	32.7	35.5	38.4	41.2
579.0005	579.0105	SIZE 5 STD 135°	35.7	38.5	41.4	44.2	47.0	30.0	32.8	35.6	38.5	41.3
579.0006	579.0106	SIZE 6 STD 135°	36.2	39.0	41.8	44.7	47.5	30.0	32.8	35.6	38.4	41.3
579.0007	579.0107	SIZE 7 STD 135°	36.8	39.7	42.5	45.3	48.2	29.9	32.8	35.6	38.4	41.2
579.0008	579.0108	SIZE 8 STD 135°	37.9	40.7	43.5	46.4	49.2	29.9	32.7	35.5	38.3	41.2
579.0009	579.0109	SIZE 9 STD 135°	38.9	41.7	44.5	47.4	50.2	29.9	32.7	35.5	38.4	41.2
579.0010	NOT AVAILABLE	SIZE 10 STD 135°	39.9	42.7	45.6	48.4	51.2	29.9	32.7	35.5	38.4	41.2
579.1000	NOT AVAILABLE	SIZE 0 LAT 135°	38.4	41.3	44.1	46.9	49.8	29.7	32.5	35.4	38.2	41.0
579.1001	NOT AVAILABLE	SIZE 1 LAT 135°	39.0	41.8	44.6	47.5	50.3	29.9	32.8	35.6	38.4	41.3
579.1002	NOT AVAILABLE	SIZE 2 LAT 135°	39.2	42.1	44.9	47.7	50.6	30.1	32.9	35.7	38.6	41.4
579.1003	NOT AVAILABLE	SIZE 3 LAT 135°	40.3	43.2	46.0	48.8	51.7	29.9	32.7	35.5	38.4	41.2

579.1004	NOT AVAILABLE	SIZE 4 LAT 135°	41.0	43.9	46.7	49.5	52.4	29.8	32.6	35.4	38.3	41.1
579.1005	NOT AVAILABLE	SIZE 5 LAT 135°	41.7	44.5	47.4	50.2	53.0	30.0	32.8	35.6	38.5	41.3
579.1006	NOT AVAILABLE	SIZE 6 LAT 135°	42.2	45.0	47.8	50.7	53.5	30.0	32.8	35.6	38.4	41.3
579.1007	NOT AVAILABLE	SIZE 7 LAT 135°	42.8	45.7	48.5	51.3	54.2	29.9	32.8	35.6	38.4	41.2
579.1008	NOT AVAILABLE	SIZE 8 LAT 135°	43.9	46.7	49.5	52.4	55.2	29.9	32.7	35.5	38.3	41.2
579.1009	NOT AVAILABLE	SIZE 9 LAT 135°	44.9	47.7	50.5	53.4	56.2	29.9	32.7	35.5	38.4	41.2
579.1010	NOT AVAILABLE	SIZE 10 LAT 135°	45.9	48.7	51.6	54.4	57.2	29.9	32.7	35.5	38.4	41.2
NOT AVAILABLE	579.2201	SIZE 1 STD 125° SHORT NECK	31.5	34.8	38.1	41.3	44.6	20.3	22.6	24.9	27.2	29.5
NOT AVAILABLE	579.2202	SIZE 2 STD 125° SHORT NECK	31.7	34.9	38.2	41.5	44.8	20.4	22.7	25.0	27.3	29.6
579.2000	NOT AVAILABLE	SIZE 0 STD 125°	36.6	39.9	43.2	46.5	49.8	24.5	26.8	29.0	31.3	33.6
579.2001	579.2101	SIZE 1 STD 125°	36.7	40.0	43.3	46.6	49.9	24.7	27.0	29.3	31.5	33.8
579.2002	579.2102	SIZE 2 STD 125°	37.2	40.5	43.8	47.1	50.4	25.1	27.4	29.7	32.0	34.3
579.2003	579.2103	SIZE 3 STD 125°	39.0	42.3	45.5	48.8	52.1	24.5	26.8	29.1	31.4	33.7
579.2004	579.2104	SIZE 4 STD 125°	39.3	42.6	45.9	49.1	52.4	24.4	26.7	29.0	31.3	33.6
579.2005	579.2105	SIZE 5 STD 125°	40.2	43.5	46.7	50.0	53.3	24.6	26.9	29.2	31.5	33.8
579.2006	579.2106	SIZE 6 STD 125°	40.6	43.8	47.1	50.4	53.7	24.5	26.8	29.1	31.4	33.7
579.2007	579.2107	SIZE 7 STD 125°	41.4	44.6	47.9	51.2	54.5	24.5	26.7	29.0	31.3	33.6
579.2008	579.2108	SIZE 8 STD 125°	42.6	45.9	49.2	52.4	55.7	24.4	26.7	29.0	31.3	33.6
579.2009	579.2109	SIZE 9 STD 125°	43.7	47.0	50.3	53.6	56.9	24.3	26.6	28.9	31.2	33.5
579.2010	NOT AVAILABLE	SIZE 10 STD 125°	44.6	47.9	51.2	54.5	57.8	24.1	26.4	28.7	31.0	33.3

