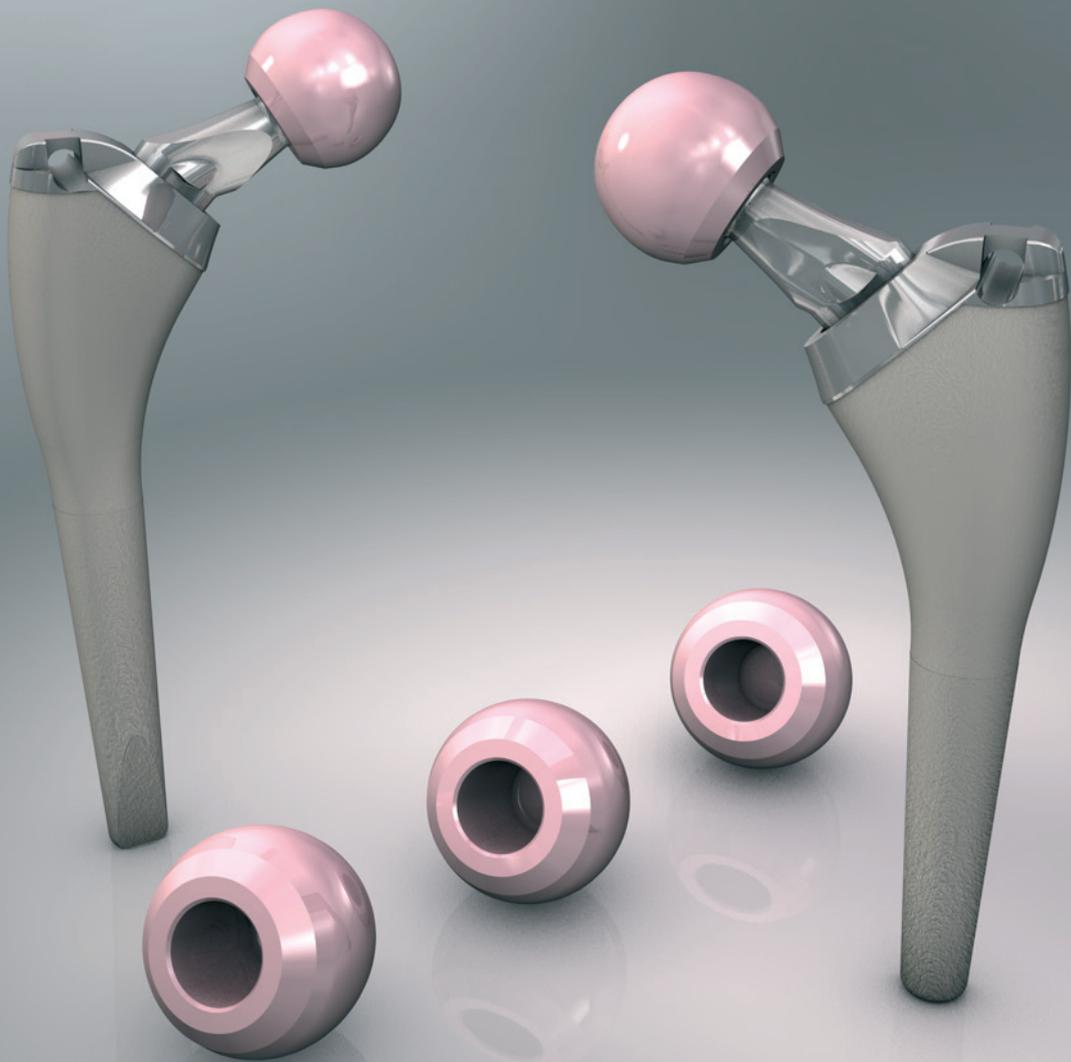


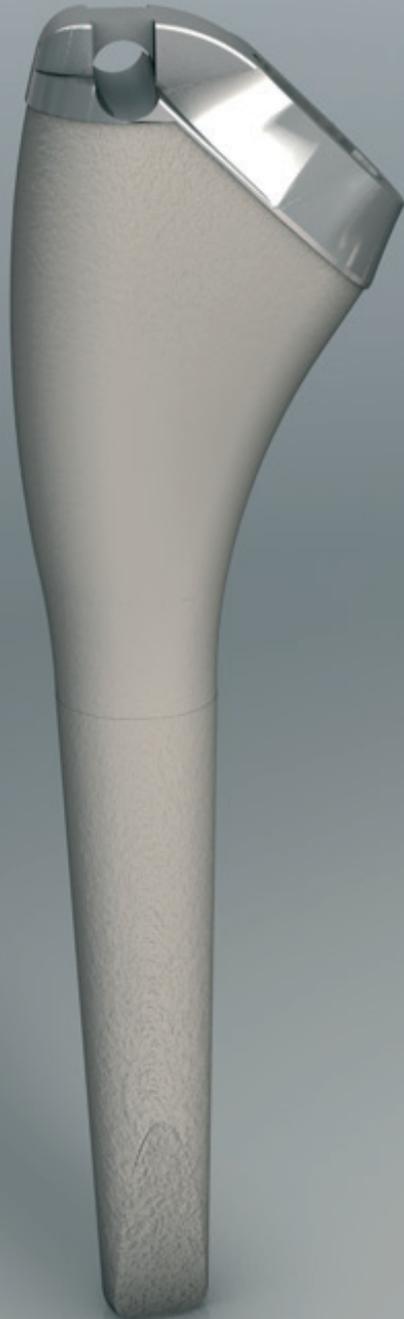


Apta



 **ADLER**<sup>®</sup>  
ORTHO

# Apta

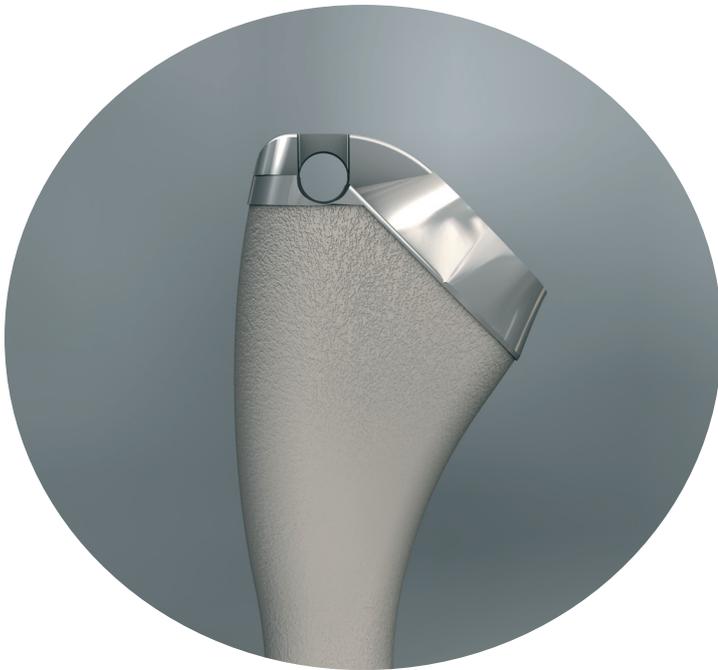


The APTA stem, available in eight sizes for the right and eight for the left femur, has been designed upon of morphological studies of the size and dimensions of the femur based on CAT scans of hundreds of patients. The statistical techniques and elaboration on the PC have made it possible to construct a press-fit endomedullary stem component, which has the exclusive function of anchoring to the host femur using optimum filling in the metaphyseal as well as the diaphyseal part, thereby guaranteeing correct adaptation to most femoral diaphysis. This press-fit structure is necessary to allow correct insertion and positioning of the stem and, with a stable proximal support between the calcar region and greater trochanter to facilitate secondary osteointegration.

The stem, made of titanium alloy (Ti6Al4V ISO 5832/3 ASTM F136) has passed the tests envisaged by specific ISO 7206/4 and ISO 7206/B standards.

An accurate specific study has made it possible to optimize the 400-micron porous titanium coating limited to the proximal region where bone integration is fundamental for stabilization of the stem.

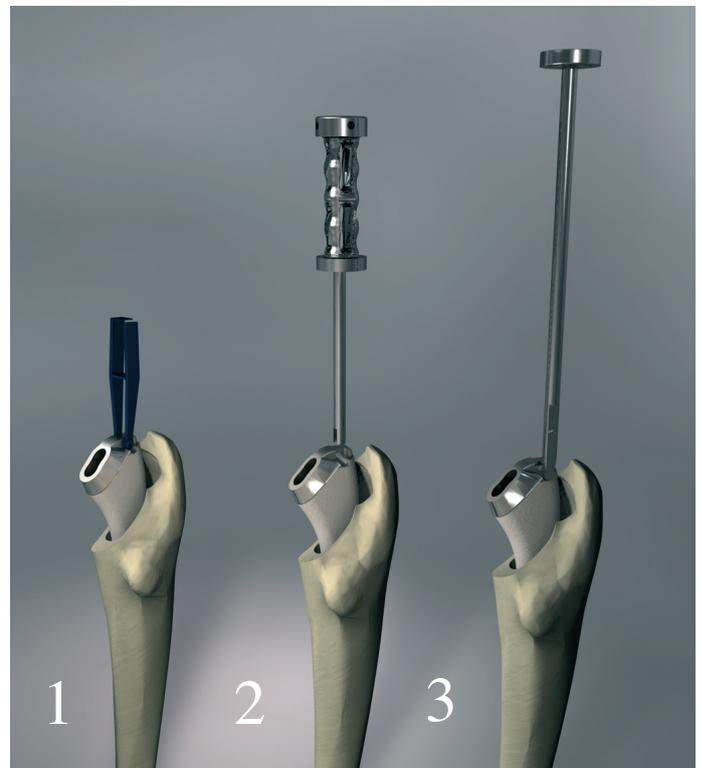
The plasma spray technique involving application of heated titanium powder allows considerable adherence of materials. The 50-micron hydroxyapatite coating (in conformity to ASTM standard F1185) along the stem facilitates bone formation all around the prosthesis, reducing risk of radiographic



- 1 Positioning of a stem-holder and initial insertion system using the special disposable device
- 2 Housing the final impactor-guide
- 3 Insertion of extraction hook.

The stem is also available in the version with collar, which extends mainly along the medial area.

- The stem meant for use without cement has the same features as the version without collar.



radiolucence. The stem is short and has a smoothed tip to minimize the “pointed” effect responsible for thigh pain.

The stem has a hole in the proximal part near the greater trochanter for

- The stem meant for use with cement is completely smooth with “mirror” polish to limit abrasion and breakage of the cement.

The collar makes it possible to increase pressurization of the acrylic cement in the stem implant phase.

## MODULAR NECKS

Over the last 20 years, orthopaedic surgery has seen very little significant conceptual evolution: one of these is, undoubtedly, the modularity of the extramedullary component (neck) of a hip arthroprosthesis.

Thanks to this possibility, a standard implant can be adapted to different anatomical-physiological characteristics of a patient without affecting correct positioning, thereby offering greater possibility of stability over time of the stem and cup, and without using excessively large sizes. The complete series of MODULA® necks, consisting of 15 pieces (all our patents), allows customization of the position of the other two components to the articulation needs of the patient, and restoration of the correct length and offset.

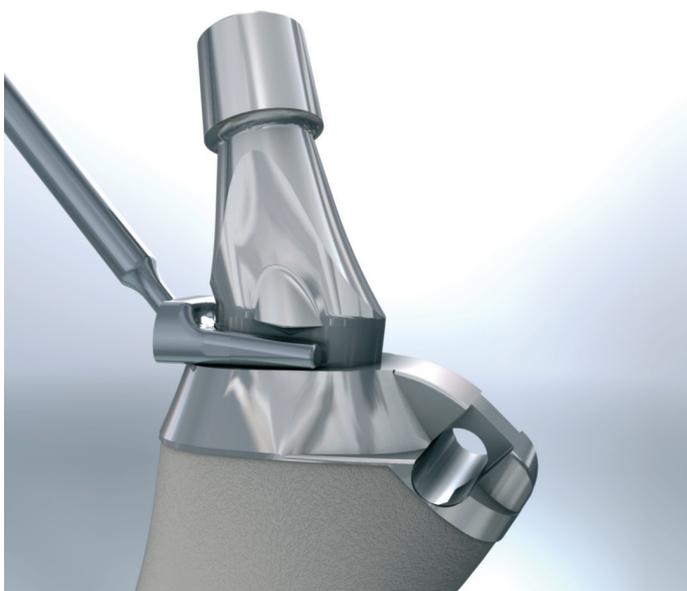
So what are the reasons that have induced us to continue with the research for other innovative solutions for necks?

The life expectancy of human beings is certainly increasing while the average age of patients with a higher level of physical activity is decreasing.

An accurate study of data collected in prosthesis registers has shown a distinct increase in the last few years in the number of over-weight patients.

Thanks to the wide spatial coverage of MODULA® SF necks, the operated patient can once again carry out the physiological movements that were possible before the disease started.

Therefore, the patients are younger, live longer, are heavier and carry out more intense physical activity. All this



requires new, high performance prosthetic systems capable of ensuring greater freedom of movement and higher levels of mechanical resistance than in the past.

In the context of the program of ongoing improvement of our products, and in the light of what has been said above, it seemed indispensable for us to develop a new trial system which makes it possible for us to measure the stress in extreme conditions and indicate to us where and how to act to be able to design a specific instrument most suitable for such patients. We thus managed to design the MODULA® “Super-Finished” (SF) necks, meant for those who, because of their weight and type of activity, or simply for greater freedom of movement, can increase the stresses on the femoral neck to levels far greater than those that were considered as average to date.

The new MODULA® SF necks with their anterior-posterior reinforcing fins, also useful as a system of removal of the neck from its seat in the stem, can amply satisfy the most demanding requisites, more brilliantly than other solutions, as has been proved by laboratory tests.

MODULA® necks solve different kinds of problems

## GEOMETRIC SOLUTION TO CLINICAL PROBLEMS

The spatial matrix allows regulation of the three main parameters:

LENGTH OFFSET - VERSION

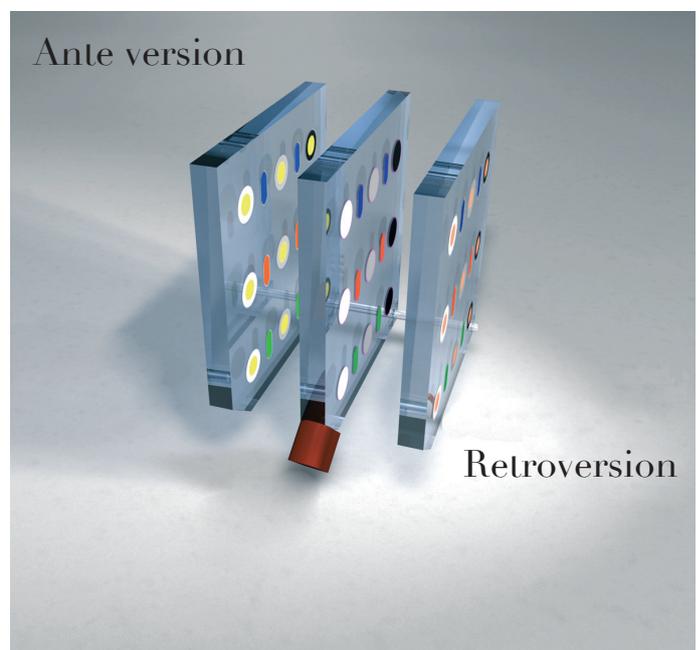
Independently of one another, sequentially and during the various phases of the operation - from preoperative planning to actual surgery.

To obtain this, it was necessary to give up the policy of using angled necks with the LONG neck and SHORT neck versions, both as regards VARUS/VALGUS and ANTERO/RETROVERSION and realize necks of such length and inclination so that each occupies a predefined position in a point on a 3D matrix.

Extraction in axis guaranteeing extractability (separation of neck from stem) is fundamental to be able to use all the features of mobile necks. Our patented extraction method, using the special slot made on all necks, makes it possible to ALWAYS work on the same plane (also on angled necks) and the extraction force is concentrated on two planes.

Surgeon should carefully evaluate the use of modular necks with high frontal offset and/or anteversion or retroversion in heavy patients and/or performing high impact sporting and/or physical demanding working activities, because the risk of early complications could be higher than normal.

For example: Left hip





## MECHANICAL SOLUTION TO RESISTANCE PROBLEMS

The hourglass shape with double elongated taper is designed to ensure anchoring to the two components exactly where required, i.e. in those areas that offer the greatest resistance to force. The drawing of the coupling is developed and validated for the successive phases:

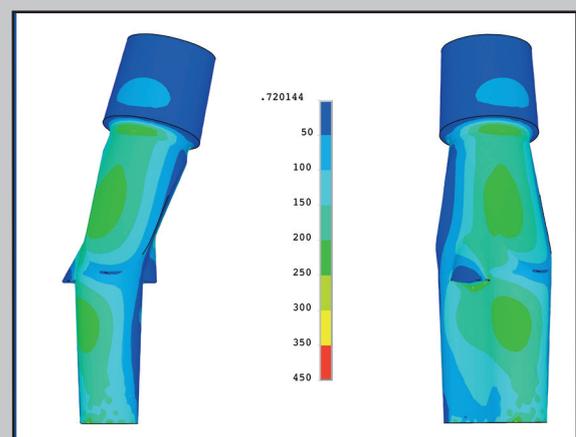
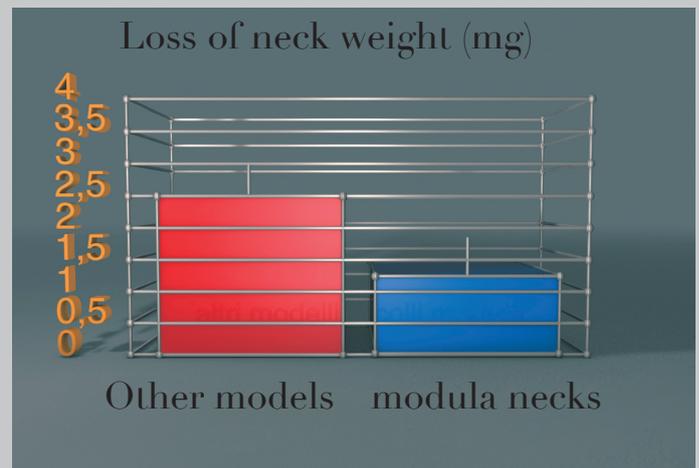
1 Numerous studies have made it possible to optimize the hourglass shape of the tapered joint and the shape of the neck extraction slot to reduce mechanical stresses in coupling, when the implant is subjected to physiological loads.

2 Fatigue tests have shown that even the most critical configuration can resist a cyclic load 50% greater than the limit value defined by the international ISO standards applicable.

3 Fretting tests have shown that the modular coupling generates negligible amount of debris, since the metal particulate produced in a test which

simulates 20 years of use by a patient is less than 2.4mg\*, i.e. half of that recorded in literature for modular necks presently available on the market, and is, in any case, less than the quantity of particulate that may be produced by a normal stable prosthesis, estimated at 10mg/year (from “Fretting wear in a modular neck hip prosthesis” Viceconti M., Squarzoni S., Toni A.)

Based on the studies it may be stated that the MODULA® necks do not represent a weak point of the implant, while they guarantee the necessary mechanical resistance to stresses these products are subjected to.



\*Estimate obtained by assuming that the seating in the prosthetic stem is damaged to the same extent as the neck taper, calculated as 1.2 mg, after a test conducted at 3300N for 20 million cycles.

The three spatial matrices are obtained by aligning the 27 trial necks on three supports, each capable of housing nine necks.

Thus the following groups are formed:

### GROUP 1, YELLOW support

#### 9 necks with:

- YELLOW group colour with VERSION correction

- LENGTH identification colour:

Three GREEN necks, 3 RED necks, 3 BLUE necks

- OFFSET identification colour

WHITE: one GREEN neck, one RED neck, 1 BLUE neck

GREY: one GREEN neck, one RED neck, 1 BLUE neck

BLACK: one GREEN neck, one RED neck, 1 BLUE neck

### GROUP 0, WHITE support

#### 9 necks:

- No group colour no VERSION correction

- With LENGTH identification colour:

Three GREEN necks, 3 RED necks, 3 BLUE necks

- With OFFSET identification colour

WHITE: one GREEN neck, one RED neck, 1 BLUE neck

GREY: one GREEN neck, one RED neck, 1 BLUE neck

BLACK: one GREEN neck, one RED neck, 1 BLUE neck

### GROUP 2, BROWN support

#### 9 necks with:

- BROWN group colour with VERSION correction

- With LENGTH identification colour:

Three GREEN necks, 3 RED necks, 3 BLUE necks

- OFFSET identification colour

WHITE: one GREEN neck, one RED neck, 1 BLUE neck

GREY: one GREEN neck, one RED neck, 1 BLUE neck

NB: The three supports have cavities

on both faces for housing the trial necks; the same 27 necks can be used to obtain the 27 positions in space for both femurs.



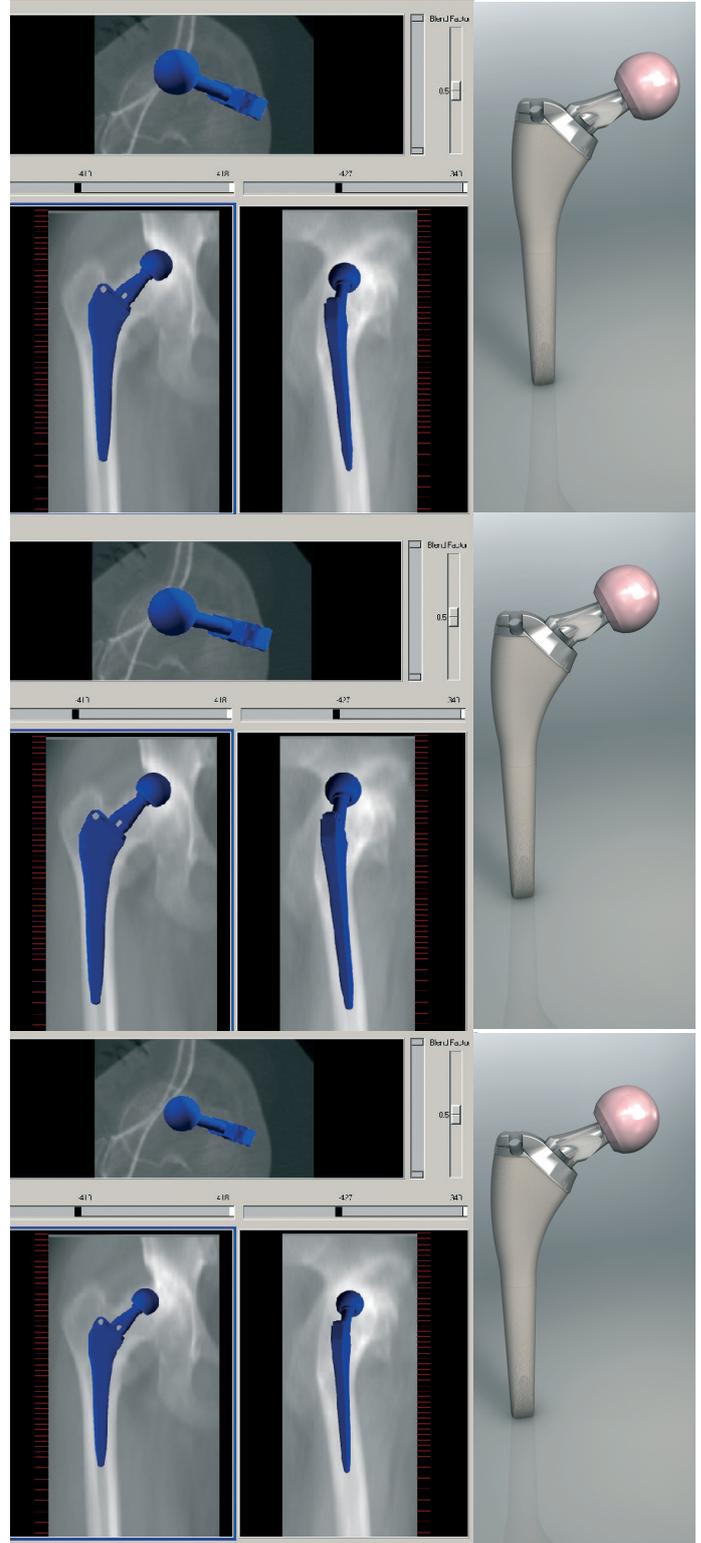
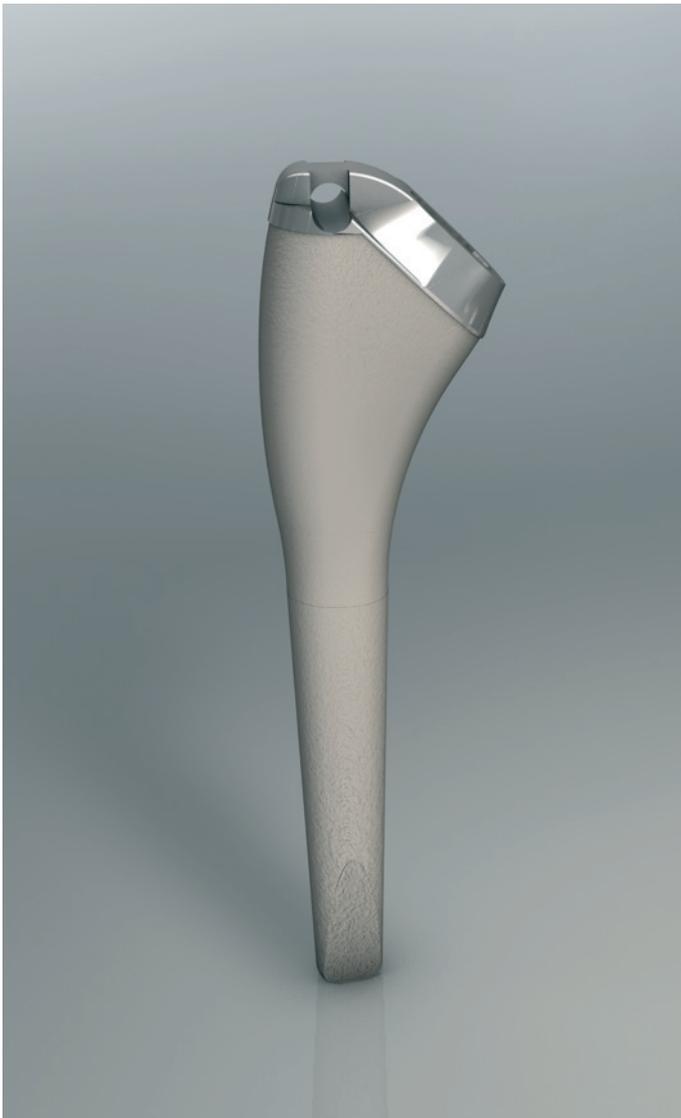
In the opposite part the supports are provided for the right hip where the left retroversion becomes right anteversion and the left anteversion becomes right retroversion.

For example: Left hip

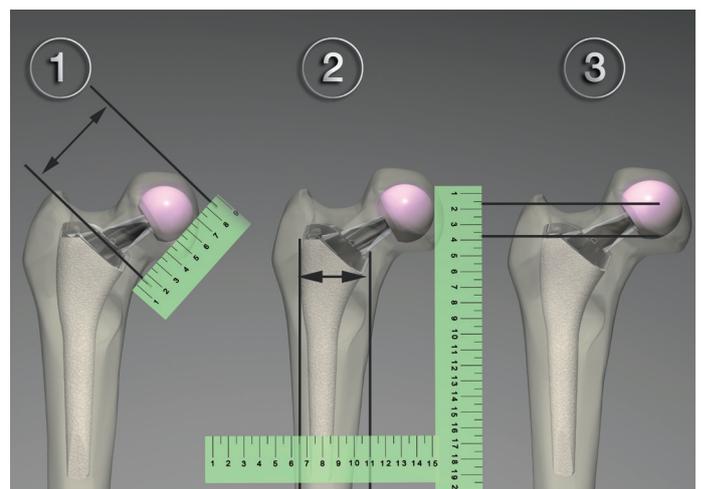


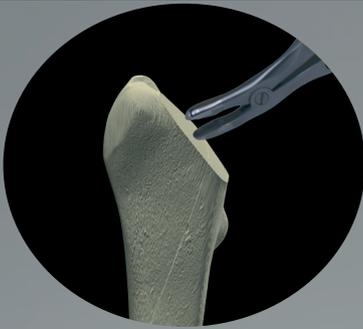
## OPERATING TECHNIQUE

In the preoperative planning phase, the stem size is selected based on special templates or C.T. reconstruction, and after defining the best position in the diaphyseal canal, three measurements are made:



- 1 Length of resection of the femoral neck (it can be measured from the proximal surface of the epiphysis, or from the lesser trochanter).
- 2 Distance between the internal surfaces of femoral cortex at the calcar and the outer reaming limit.
- 3 Distance between the apex of the greater trochanter and upper stem edge.





After dislocation of the femoral epiphysis, the length of the osteotomy of the neck is based on the preoperative planning measure. The lateral-most surface of the osteotomic section of the femoral neck is cleaned to remove all synovial tissue that may be present, and the cortical part is resected by a few millimetres using a Luer rongeur, to make it possible to insert the encased scalpel aligning it with the diaphyseal axis.

Flexible diaphyseal reamers may be used to check if the size of the diaphyseal canal corresponds to that measured in the preoperative template. It must be remembered that the reamer diameter must be identical to that of the final rasp selected, measured at a distance of 30 mm from the stem distal tip.

Rasping then begins by inserting the smaller rasp, taking care to push it slightly against the sides of the neck for lateralization, to prevent varus positions of the stem.

The procedure thus continues until the size defined in the preoperative template is obtained, always checking to make sure the rasp does not get jammed in the diaphyseal cavity as it moves forward down: for this purpose, it is sufficient to twist the rasp as it goes deeper to make sure there is movement between the rasp and the bone. If there is “jamming” before the



selected rasp reaches its seat, it is necessary to verify that the rasp lateralization corresponds to size “2” of the preoperative template. A few mm can lead to the choice of an undersized stem inserted in varus!

The aim is to insert the rasp of the selected size to the predefined depth (size “3” of the preoperative template): the definition of the exact depth to which the reamer must be embedded is obviously based on the resistance offered to its insertion: the rule of the thumb is that if the rasp does not move further inwards after a few taps with the mallet, it must be considered as having reached its optimum depth.



In complex cases, such as for example in the case of severe dysplasia, trial modular necks can be applied on the rasp to check the possibility of reducing dislocation of the hip, as well as its stability.

In normal cases, it is advisable to carry out trials on the final stem, which, although it can itself change its position with respect to the broach to a very limited extent, will in any case, require the repetition of the trials with modular necks.

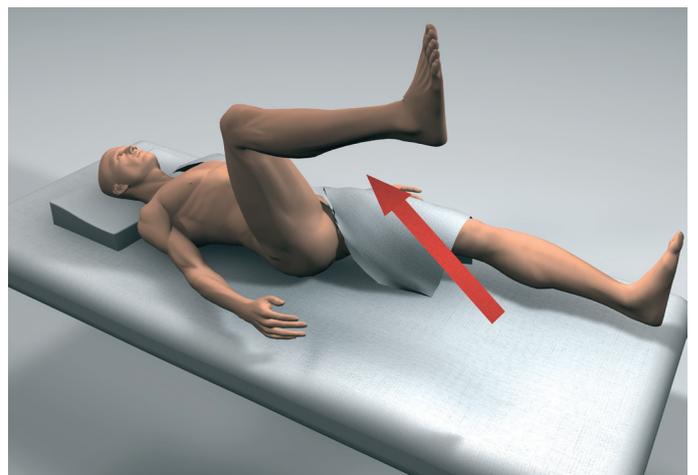
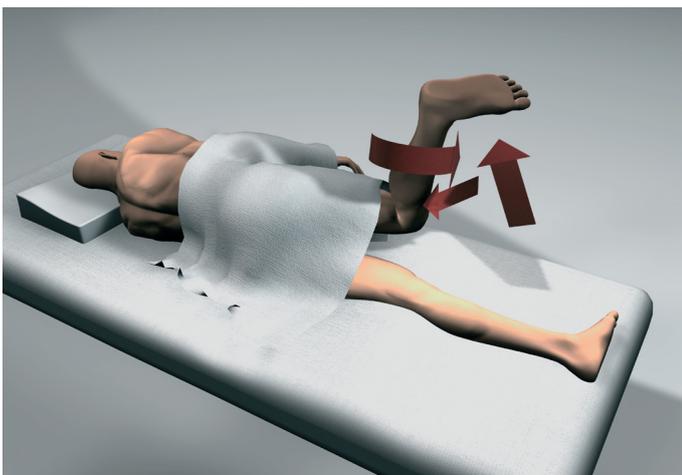
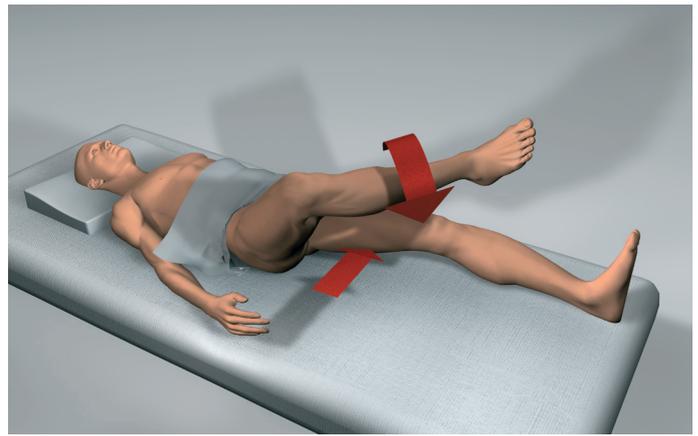
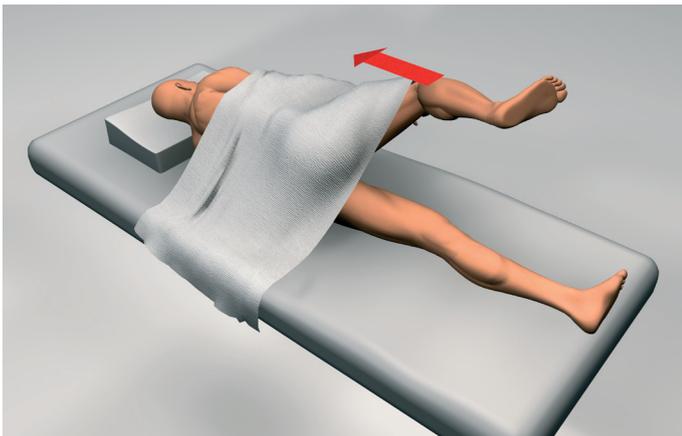
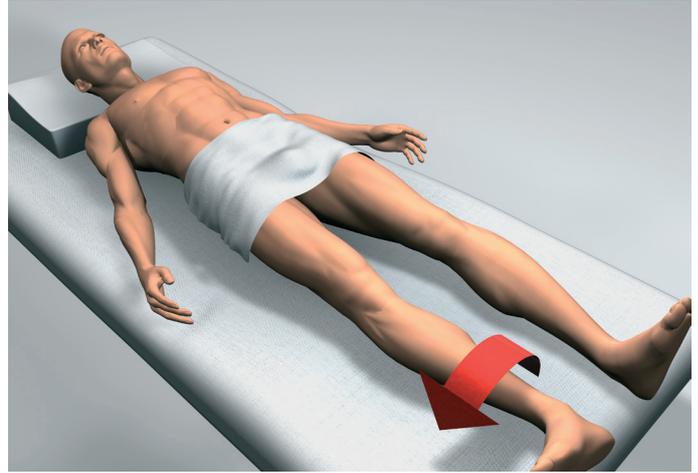
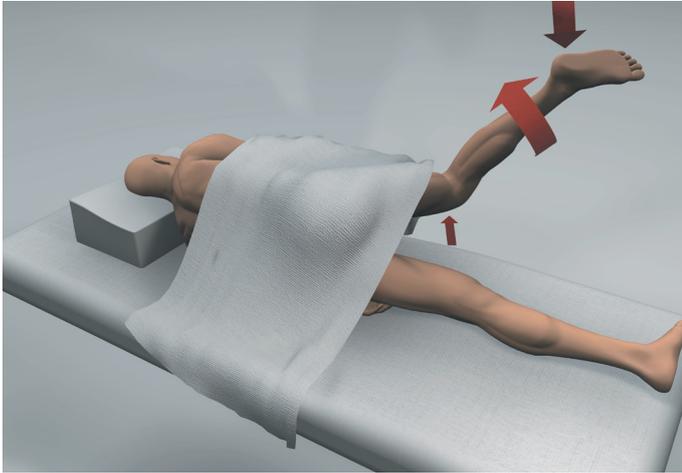


Once the prosthesis is chosen, it is removed directly from the sterile pack, using the special disposable plastic stem-holder and the stem is hand-inserted in the femur until it is blocked. A metal impactor tool is then used to insert the stem into its final position, and the hammering must stop when it is seen that the stem proceeds no further after three taps with the mallet. The depth of insertion of the stem is checked with respect to the tip of the greater trochanter: if it is different from that calculated in the preoperative template, the choice of neck and the trial head, which were defined in the template, must be adjusted based on the position of the stem and the cup.

Then carry out reduction of the prosthesis and check the length of the limb and the stability of the prosthesis; in order to do so, check to make sure the prosthesis does not dislocate in the following three positions (through the antero-lateral approach):

ACCESS WAY POSTERO - LATERAL

ACCESS WAY ANTERO - LATERAL



- 1 - Extension by 10° + extra-rotation
- 2 - Bending 90° neutral
- 3 - Bending + maximum intra-rotation

- 1 - Extension on the bed plane + maximum extra-rotation
- 2 - Maximum adduction + extra-rotation
- 3 - Maximum bending

It will thus be possible to select the modular neck and head suitable for restoring the length, offset and stability in each case.

## CHOICE OF NECK

This is a crucial phase of the operation. The neck is, in fact, the extramedullary component that allows articulation between the femur and acetabulum, by establishing the ideal anatomic-physiological conditions. The MODULA® necks act on the three spatial variables, length-offset-version, independently and sequentially, to minimize the possibility of error, particularly if special care has been taken in a correct preoperative planning. With MODULA® necks, more than the choice of the right type of neck, it is important to choose the best point in a 3D matrix, which makes it possible to solve the difficult equation of identification of the articular centre.

## LEGEND OF COLOUR CODES IN TRIAL NECKS

MODULA® necks make it possible to reach 27 points in space and, as they have three head lengths, 81 points are actually available in three dimensions for the right limb and an equal number for the left limb.

Thanks to the 15 final necks available, it is possible to achieve the above-mentioned objectives. To simplify the choice of the optimum neck, 27 trial necks can be used. These 27 necks are made of plastic, in three different colours, i.e.:

Nine GREEN necks, which will occupy the SHORT length, line in the three spatial matrices

Nine RED necks, which will occupy the MEDIUM length, line in the three spatial matrices

Nine GREEN necks, which will occupy the LONG length, line in the three spatial matrices

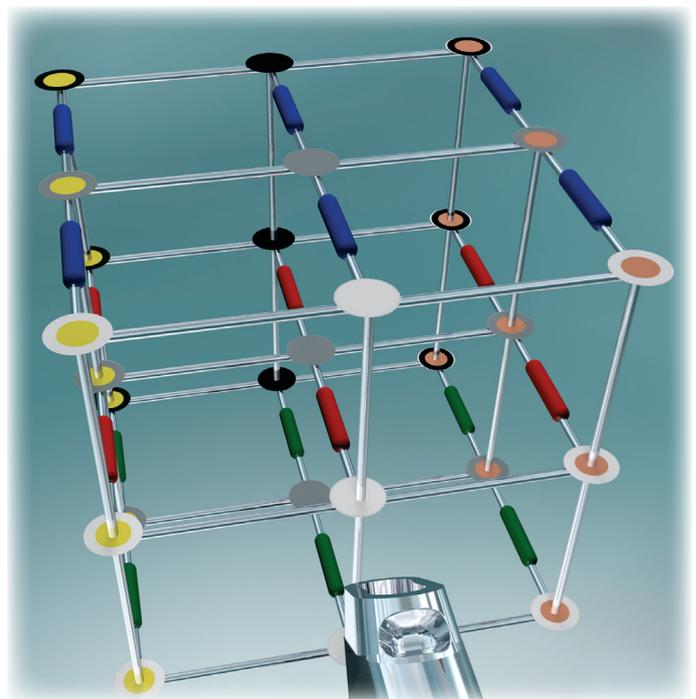
An identification colour is applied to each of these 27 necks to indicate one of the three OFFSET values to which they belong. Therefore, there will be:

(Three GREEN necks, 3 RED necks and three BLUE necks) nine pcs. With identification colour WHITE to indicate MINUS offset value

(Three GREEN necks, 3 RED necks and three BLUE necks) nine pcs. With identification colour GREY to indicate, STANDARD offset value

(Three GREEN necks, 3 RED necks and three BLUE necks) nine pcs. With identification, colour BLACK to indicate PLUS offset value

For example: Left hip





**LENGTH  
OFF-SET  
VERSION**

The 18 necks with VERSION correction are divided into two groups of 9 necks each - YELLOW (GROUP 1) and BROWN (GROUP 2); the remaining nine necks with ZERO version correction form GROUP 0.

<b>LENGTH</b>	
LONG	
MEDIUM	
SHORT	
<b>OFFSET</b>	
○	
WHITE	MINUS
●	
GREY	STANDARD
●	
BLACK	PLUS
<b>VERSION</b>	
○	
BROWN INSERT	RIGHT ANTEVERSION- LEFT ANTEVERSION
	○
LEFT ANTEVERSION RIGHT ANTEVERSION	YELLOW INSERT



## PHASE 1

The initial parameters to be defined are the LENGTH and the OFFSET. The trial necks, which determine these two parameters, are the nine necks present on WHITE support and defined as GROUP 0 necks (zero ante-retroversion). Depending on the preoperative templating, begin by using the neck considered most suitable from among the nine necks in GROUP 0 present on WHITE support. In the absence of a template or in case of doubt regarding the choice of neck, the operation begins by using the RED central trial neck with GREY offset referred to as 0Y.

Obviously, apart from the possibilities offered by the necks available, it is possible to depend on the different lengths of the heads, for further adjustments.

## PHASE 2

After identifying the neck (from among the nine trial necks of GROUP 0) which offers the best combination of length and offset, it is possible to pass on to the choice of the third spatial variable, the VERSION (ante and retro), if necessary, for better stabilization of articulation.

The latter is determined without modifying the parameters obtained previously (length and offset) using the

neck of the same colour (GREEN, RED, BLUE) and the same definition (WHITE, GREY, BLACK) of GROUP 1 present on yellow support, or GROUP 2 present on brown support.

NOTE: In case of a right hip, YELLOW (insert and support) indicates retroverted necks, while BROWN (insert and support) indicates anteverted necks. The opposite is the case for a left hip. The opposite is the case for a left hip. The table/poster and the 3D model included in the set of instruments can be very useful.

Reference to the correct position of the trial neck will facilitate insertion of the final neck. A suitable chamfer on the hourglass taper of the trial neck, to be oriented always towards the medial part, will help the surgeon position the neck correctly.

After identifying the final neck and washing the stem cavity thoroughly, it is inserted in the stem by hammering with medium force. Before inserting the final head, identified thanks to the trial heads, the truncated-conical surface of the neck must be washed.

If a ceramic head is used, it must be inserted by turning through 180°, avoiding hammering it once it is seated. Then luxation is reduced, which must be done without the aid of a hook.

# IMPLANTS AND INSTRUMENTS

## IMPLANTS

0101101	APTA STEM W.O./CEM. TI+HA	TG. 1 R	
0101102	APTA STEM W.O./CEM. TI+HA	TG. 2 R	
0101103	APTA STEM W.O./CEM. TI+HA	TG. 3 R	
0101104	APTA STEM W.O./CEM. TI+HA	TG. 4 R	
0101105	APTA STEM W.O./CEM. TI+HA	TG. 5 R	
0101106	APTA STEM W.O./CEM. TI+HA	TG. 6 R	
0101107	APTA STEM W.O./CEM. TI+HA	TG. 7 R	
0101108	APTA STEM W.O./CEM. TI+HA	TG. 8 R	
0101111	APTA STEM W.O./CEM. TI+HA	TG. 1 L	
0101112	APTA STEM W.O./CEM. TI+HA	TG. 2 L	
0101113	APTA STEM W.O./CEM. TI+HA	TG. 3 L	
0101114	APTA STEM W.O./CEM. TI+HA	TG. 4 L	
0101115	APTA STEM W.O./CEM. TI+HA	TG. 5 L	
0101116	APTA STEM W.O./CEM. TI+HA	TG. 6 L	
0101117	APTA STEM W.O./CEM. TI+HA	TG. 7 L	
0101118	APTA STEM W.O./CEM. TI+HA	TG. 8 L	
0181201	STEM APTA CEM. COLARED	TG. 1 R	
0181202	STEM APTA CEM. COLARED	TG. 2 R	
0181203	STEM APTA CEM. COLARED	TG. 3 R	
0181204	STEM APTA CEM. COLARED	TG. 4 R	
0181205	STEM APTA CEM. COLARED	TG. 5 R	
0181206	STEM APTA CEM. COLARED	TG. 6 R	
0181207	STEM APTA CEM. COLARED	TG. 7 R	
0181208	STEM APTA CEM. COLARED	TG. 8 R	
0181211	STEM APTA CEM. COLARED	TG. 1 L	
0181212	STEM APTA CEM. COLARED	TG. 2 L	
0181213	STEM APTA CEM. COLARED	TG. 3 L	
0181214	STEM APTA CEM. COLARED	TG. 4 L	
0181215	STEM APTA CEM. COLARED	TG. 5 L	
0181216	STEM APTA CEM. COLARED	TG. 6 L	
0181217	STEM APTA CEM. COLARED	TG. 7 L	
0181218	STEM APTA CEM. COLARED	TG. 8 L	
0460110	MODULA NECK S.F.	0X	12/14
0460210	MODULA NECK S.F.	0A	12/14
0460220	MODULA NECK S.F.	0Y	12/14
0460310	MODULA NECK S.F.	0B	12/14
0460320	MODULA NECK S.F.	0C	12/14
0460330	MODULA NECK S.F.	0Z	12/14
0460910	MODULA NECK S.F.	9X	12/14
0460920	MODULA NECK S.F.	9AA	12/14
0460930	MODULA NECK S.F.	9BB	12/14
04609210	MODULA NECK S.F.	9A	12/14
04609220	MODULA NECK S.F.	9Y	12/14
04609230	MODULA NECK S.F.	9CC	12/14
04609310	MODULA NECK S.F.	9B	12/14
04609320	MODULA NECK S.F.	9C	12/14
04609330	MODULA NECK S.F.	9Z	12/14
0514281	HEAD CERAMIC DELTA	D. 28	SHORT
0514282	HEAD CERAMIC DELTA	D. 28	MEDIUM
0514283	HEAD CERAMIC DELTA	D. 28	LONG
0514321	HEAD CERAMIC DELTA	D. 32	SHORT
0514322	HEAD CERAMIC DELTA	D. 32	MEDIUM
0514323	HEAD CERAMIC DELTA	D. 32	LONG
0514361	HEAD CERAMIC DELTA	D. 36	SHORT
0514362	HEAD CERAMIC DELTA	D. 36	MEDIUM
0514363	HEAD CERAMIC DELTA	D. 36	LONG
0514401	HEAD CERAMIC DELTA	D. 40	SHORT
0514402	HEAD CERAMIC DELTA	D. 40	MEDIUM
0514403	HEAD CERAMIC DELTA	D. 40	LONG
0520281	CoCrMo Heads	D. 28	SHORT
0520282	CoCrMo Heads	D. 28	MEDIUM
0520283	CoCrMo Heads	D. 28	LONG
0540321	CoCrMo Heads	D. 32	SHORT
0540322	CoCrMo Heads	D. 32	MEDIUM
0540323	CoCrMo Heads	D. 32	LONG
0540361	CoCrMo Heads	D. 36	SHORT
0540362	CoCrMo Heads	D. 36	MEDIUM
0540363	CoCrMo Heads	D. 36	LONG
0540401	CoCrMo Heads	D. 40	SHORT
0540402	CoCrMo Heads	D. 40	MEDIUM
0540403	CoCrMo Heads	D. 40	LONG

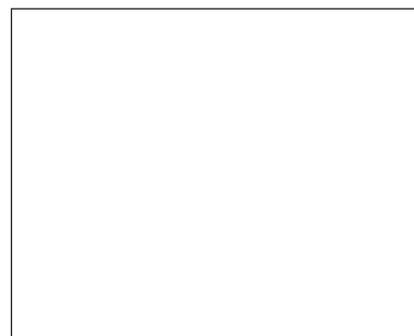
## INSTRUMENTS

IA02900	APTA COMPLETE INSTRUMENT SET		
IC03200	UNIVERSAL HANDLE TRS		
IA01100	APTA RASP	SIZE.	1 R
IA01200	APTA RASP	SIZE.	2 R
IA01300	APTA RASP	SIZE.	3 R
IA01400	APTA RASP	SIZE.	4 R
IA01500	APTA RASP	SIZE.	5 R
IA01600	APTA RASP	SIZE.	6 R
IA01700	APTA RASP	SIZE.	7 R
IA01800	APTA RASP	SIZE.	8 R
IA02100	APTA RASP	SIZE.	1 L
IA02200	APTA RASP	SIZE.	2 L
IA02300	APTA RASP	SIZE.	3 L
IA02400	APTA RASP	SIZE.	4 L
IA02500	APTA RASP	SIZE.	5 L
IA02600	APTA RASP	SIZE.	6 L
IA02700	APTA RASP	SIZE.	7 L
IA02800	APTA RASP	SIZE.	8 L
IH28000	TRIAL HEAD	D. 28	SHORT
IH28100	TRIAL HEAD	D. 28	MEDIUM
IH28200	TRIAL HEAD	D. 28	LONG
IH32000	TRIAL HEAD	D. 32	SHORT
IH32100	TRIAL HEAD	D. 32	MEDIUM
IH32200	TRIAL HEAD	D. 32	LONG
IH36400	TRIAL HEAD	D. 36	SHORT
IH36500	TRIAL HEAD	D. 36	MEDIUM
IH36600	TRIAL HEAD	D. 36	LONG
IH40000	TRIAL HEAD	D. 40	SHORT
IH40100	TRIAL HEAD	D. 40	MEDIUM
IH40200	TRIAL HEAD	D. 40	LONG
IC06500	CHISEL		
IC00200	STEM IMPACTOR		
IC00300	UNIVERSAL HANDLE		
IC00400	STEM EXTRACTOR		
IC00500	HEAD PUSHER		
IC02200	ADDITIONAL EXTRACTOR		
IC00700	TOMMY BAR		
IC02400	NECKS IMPACTOR		
IM00100	BLUE TRIAL NECK WHITE CAP	0B	LONG
IM00200	BLUE TRIAL NECK GREY CAP	0C	LONG
IM00300	BLUE TRIAL NECK BLACK CAP	0Z	LONG
IM00400	RED TRIAL NECK WHITE CAP	0A	MEDIUM
IM00500	RED TRIAL NECK GREY CAP	0Y	MEDIUM
IM00600	RED TRIAL NECK BLACK CAP	0C	MEDIUM
IM00700	GREEN TRIAL NECK WHITE CAP	0X	SHORT
IM00800	GREEN TRIAL NECK GREY CAP	0A	SHORT
IM00900	GREEN TRIAL NECK BLACK CAP	0B	SHORT
IM01100	BLUE TRIAL NECK WHITE CAP YELLOW TIP	9B	LONG
IM01200	BLUE TRIAL NECK GREY CAP YELLOW TIP	9C	LONG
IM01300	BLUE TRIAL NECK BLACK CAP YELLOW TIP	9Z	LONG
IM01400	RED TRIAL NECK WHITE CAP YELLOW TIP	9 <sup>o</sup>	MEDIUM
IM01500	RED TRIAL NECK GREY CAP YELLOW TIP	9Y	MEDIUM
IM01600	RED TRIAL NECK BLACK CAP YELLOW TIP	9CC	MEDIUM
IM01700	GREEN TRIAL NECK WHITE CAP YELLOW TIP	9X	SHORT
IM01800	GREEN TRIAL NECK GREY CAP YELLOW TIP	9AA	SHORT
IM01900	GREEN TRIAL NECK BLACK CAP YELLOW TIP	9BB	SHORT
IM02100	BLUE TRIAL NECK WHITE CAP RED TIP	9BB	LONG
IM02200	BLUE TRIAL NECK GREY CAP RED TIP	9CC	LONG
IM02300	BLUE TRIAL NECK BLACK CAP RED TIP	9Z	LONG
IM02400	RED TRIAL NECK WHITE CAP RED TIP	9AA	MEDIUM
IM02500	RED TRIAL NECK GREY CAP RED TIP	9Y	MEDIUM
IM02600	RED TRIAL NECK BLACK CAP RED TIP	9C	MEDIUM
IM02700	GREEN TRIAL NECK WHITE CAP RED TIP	9X	SHORT
IM02800	GREEN TRIAL NECK GREY CAP RED TIP	9A	SHORT
IM02900	GREEN TRIAL NECK BLACK CAP RED TIP	9B	SHORT
IM03100	GREY PLATE FOR RH/LH TRIAL NECKS		
IM03200	RED PLATE FOR RH ANTE/LH RETRO TRIAL NECKS		
IM03300	YELLOW PLATE FOR RH RETRO/LH ANTE TRIAL NECKS		
IM01001	NECKS EXTRACTOR		
IM07701	"FORK" COMPONENT FOR NECKS EXTRACTOR		
IM07702	NECKS EXTRACTOR BEATER		
IM07704	"FORK" COMPONENT FOR NECKS EXTRACTOR H 2mm		



Adler Ortho srl  
Via dell'Innovazione 9  
20032 Cormano, Italy  
Tel +39 02 6154371  
Fax +39 02 615437222  
[www.adlerortho.com](http://www.adlerortho.com)

United Kingdom  
ADLER ORTHO UK  
Unit 16, M11  
Business Link  
Personage Lane -  
Stansted  
Essex CM24 8GF  
Great Britain



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