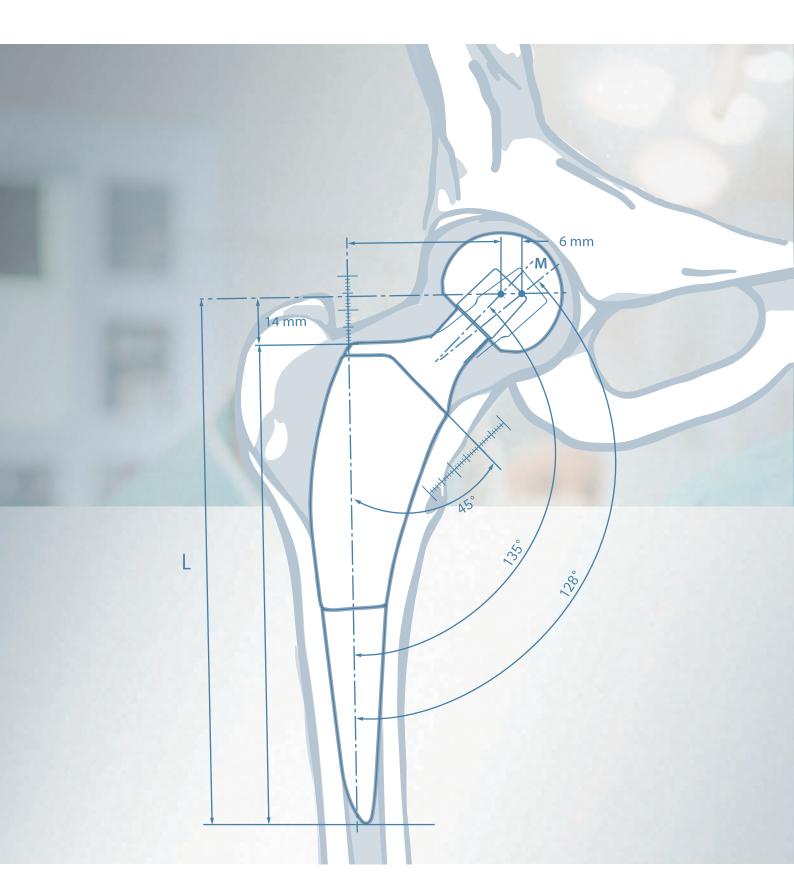




ORTHOPAEDIC SURGERY

AESCULAP® Excia® T

AESCULAP® Excia® T





Minimally invasive, conical, trochanter-preserving shoulder.

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AESCULAP® Excia® T CONCEPT



Excia® T CEMENTLESS DESIGN

The distally slim implant design and the standardized implantation technique allow the implant to be used in different femoral anatomies.

Essential design characteristics of the proximally fixating implant are the trochanter-preserving rounded shoulder and the reduced stem length.

These features support minimally invasive surgical techniques, especially the direct anterior approach.

The Excia® T double taper design as well as the proximal bilateral flanges provide a high primary stability.

The 12/14 taper with a distally reduced neck diameter increases the range of motion.

Excia® T is available as standard as well as a high-offset implant which supports an individual offset reconstruction.

Plasmapore® COATING

For osseous integration into the proximal bone structure the cementless Excia $^{\circ}$ T stem, which is made of ISOTAN $^{\circ}_{F}$ titanium alloy, is coated with the proven microporous Plasmapore $^{\circ}$ titanium spray.

During the Plasmapore® coating process pure titanium powder with a thickness of 0.35 mm and a microporosity up to 40% is sprayed on the proximal anchoring area of the implant. The very rough Plasmapore® structure also supports the implant's primary stability.

OrthoPilot® NAVIGATION

Excia® T can be implanted using the OrthoPilot® navigation system. Stem navigation tools allow intra-operative control and documentation of leg length and offset changes. OrthoPilot® navigation also supports minimally invasive surgical techniques.

Excia® T GEOMETRY

Size	Length	Standard CCD Offset		Lat CCD	eralized Offset
		ССБ	Oliset	ССБ	
8	131.4 mm	135°	37.7 mm	128°	43.7 mm
9	135.9 mm	135°	38.9 mm	128°	44.9 mm
10	140.4 mm	135°	40.1 mm	128°	46.1 mm
11	144.9 mm	135°	41.3 mm	128°	47.3 mm
12	149.4 mm	135°	42.5 mm	128°	48.5 mm
13	153.9 mm	135°	43.7 mm	128°	49.7 mm
14	158.4 mm	135°	44.9 mm	128°	50.9 mm
15	162.9 mm	135°	46.1 mm	128°	52.1 mm
16	167.4 mm	135°	47.3 mm	128°	53.3 mm
17	171.9 mm	135°	48.5 mm	128°	54.5 mm
18	176.4 mm	135°	49.7 mm	128°	55.7 mm
19	180.9 mm	135°	50.9 mm	128°	56.9 mm
20	185.4 mm	135°	52.1 mm	128°	58.1 mm

AESCULAP® Excia® T CONCEPT



Excia® T CEMENTED DESIGN

The tapered implant design with the trochanter-preserving shoulder geometry has also been adopted for the cemented Excia® T stem.

The bilateral flanges in the trochanter area support the proximal fit of the implant in the cement mantle.

The geometry of the cemented Excia® T is parametric to the cementless Excia® T stem. The stem design is 6 mm shorter for all sizes and has been radially reduced by 1 mm along the complete stem. This design supports a constant cement mantle for all implant sizes.

The balancing between rasp design and cemented implant allows an influence of the desired nominal cement mantle thickness when choosing the stem size based on the last rasp size used. The distal stem alignment in the cement can be achieved with a centralizer.

The cemented Excia® T implant is also available as standard and lateralized version which supports individual offset reconstruction.

CoCr MATERIAL

The cemented Excia $^{\circ}$ T differs from the cementless version in its implant material, ISODUR $^{\circ}_{F}$ cobalt chrome alloy. The implant surface is not coated.

OrthoPilot® NAVIGATION

The cemented Excia® T can also be implanted using the OrthoPilot® navigation system. To navigate the cemented stems the recommended implant size is displayed according to the last used rasp size.

AESCULAP® Excia® T CONCEPT



Excia® T RASP DESIGN

The design of the rasps allows for a smooth preparation of the implant bed. Proximal compression planes of the rasps support a compaction of the cancellous bone in anterior and posterior direction and herewith the preservation of bone material.

The rasping is supported by chip flutes in the distal part of the broaches. The flutes also facilitate the cleaning of the broaches from blood and bone material.

The asymmetrical tip of the implant and the rasp prevent a distal-lateral load transmission and provide an intramedullary guidance of the rasp during the implantation.

The Excia® T rasps are manufactured in a way that a trial reposition with trial neck and trial head allow for a precise evaluation of the joint function. Standard as well as lateralized modular trial necks are available to check the offset situation and simulate the expectable joint stability.

Excia® T SYSTEM APPROACH

The essential benefit of the Excia® T instruments can be found in the system approach. Excia® T supports the implantation with or without bone cement for all surgical approaches with one single set of instruments. Excia® T herewith provides a great intraoperative flexibility.

The Excia® T approach of using one instrument system for cementless and cemented implantations furthermore reduces the intra-operatively necessary number of instruments. The combination of a reduced number of instruments and a single AESCULAP® OrthoTray® storage enables that all Excia® T instruments fit into one tray. Hence the AESCULAP® OrthoTray® needs low storage capacity and reduces the costs for instrument processing and sterilization.

AESCULAP® INSTRUMENT PLATFORM

Platform profiler handles allow an implantation of all AESCULAP® hip stems with the same handles. Herewith not only the number of necessary instruments is reduced but also the effort when different implant systems are in use. Depending on the surgical approach and patient position, either supine or lateral, different profiler handle versions are available.

AESCULAP® Excia® T PREOPERATIVE PLANNING



AIMS OF PREOPERATIVE PLANNING

Based on the indication preoperative planning considers the position and size selection of the implant components. Anatomical circumstances are evaluated with an AP view of the complete pelvis as well as the view of the contralateral side to the indicated hip joint.

On the basis of the preoperative planning it is possible to already identify intraoperative challenges in the forefront of the surgery. According to bone quality and shape preoperative planning indicates the possible fixation of the stem component, position of the rotation center, offset and leg length as well as the position of the femoral osteotomy.

PROCEDURE OF PREOPERATIVE PLANNING

- 1. Drawing in of the pelvis base line and the reference to the trochanter minor.
- 2. Determination of the femoral hip center.
- **3.** Position of the cup component, which indicates the rotation center.
- 4. Selection of the appropriate stem implant depending on the following requirements:
 - Proximal medial fit of the stem.
 - Distal axial stem position.
 - Without oversizing of the distal part of the implant.
- **5.** Adjustment of offset and leg length via the rotation center of the stem component in relation to the cup component.
- 6. Marking of the 45° osteotomy line for the intraoperative orientation with 10-15 mm reference to the trochanter minor.

Excia® T STEM IMPLANTS

The broad size range as well as a precisely adjusted size growth for Excia® T cementless and cemented implants allow an individual selection of the implant size.

Offset versions of the standard stem with 135° CCD angle and the lateralized stem with 128° CCD angle and 6 mm offset increase support the reconstruction of the femoral offset.

POSSIBILITIES OF PREOPERATIVE PLANNING

Excia® T x-ray templates with a scale of 1.15:1 are available for manual planning. Furthermore Excia® T is integrated into several digital planning systems.

X-RAY IMAGES

For the planning of Excia® T a deeply regulated pelvis overview and an image of the lateral view of the indicated hip should be available.



PATIENT POSITION

Depending on the surgical technique and approach the patient is positioned either in supine or in lateral position.

The following images underlining the explanation of the surgical technique are related to a lateral patient position and the utilization of a posterior approach.

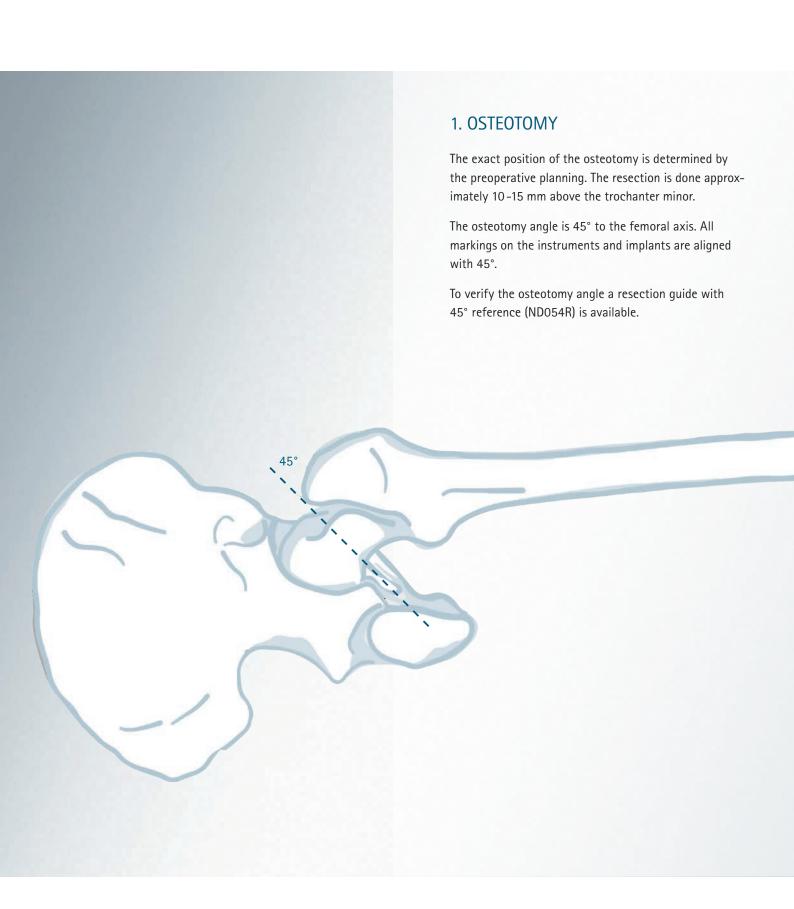
APPROACHES

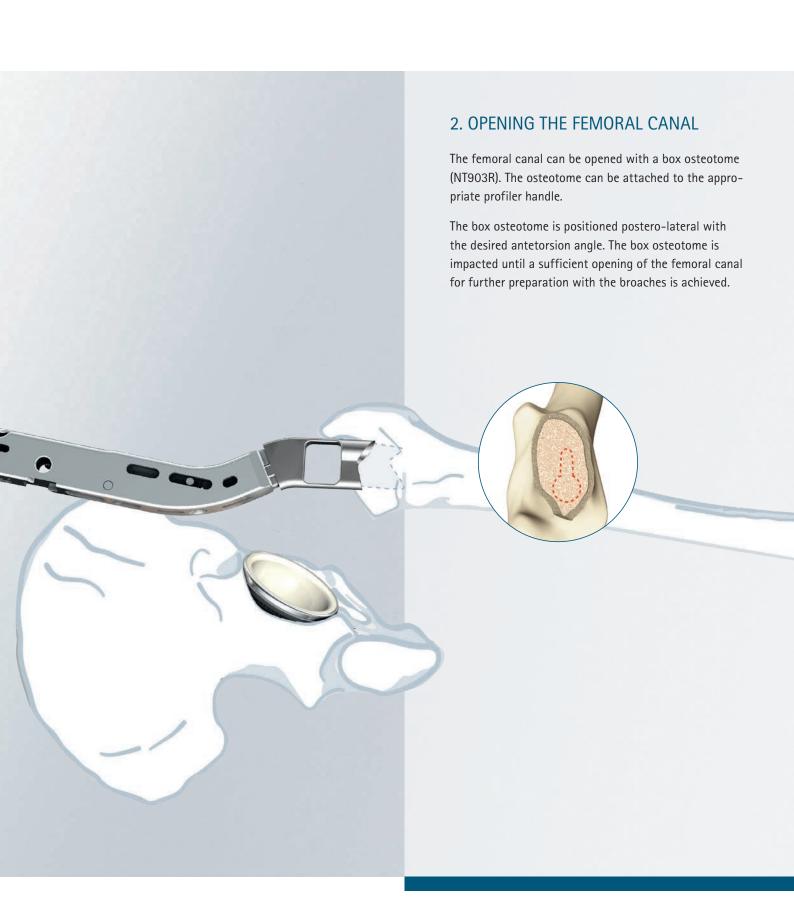
Generally Excia® T supports all common approaches also in minimally invasive technique.

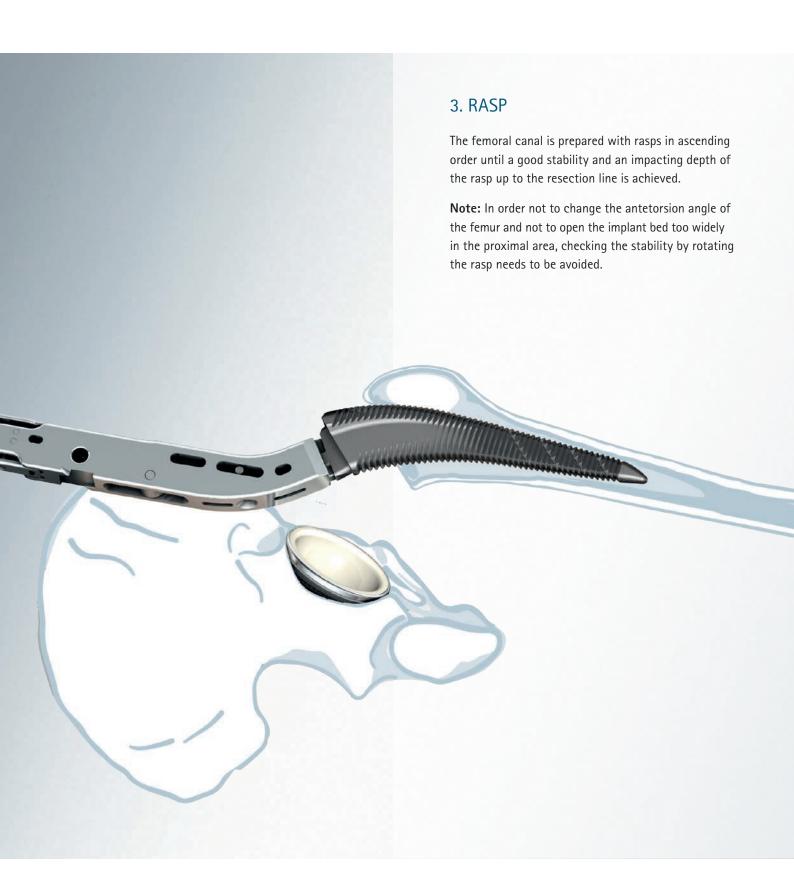
Due to the trochanter preserving proximal rounded design of the implant Excia® T is especially well suitable for the direct anterior approach.

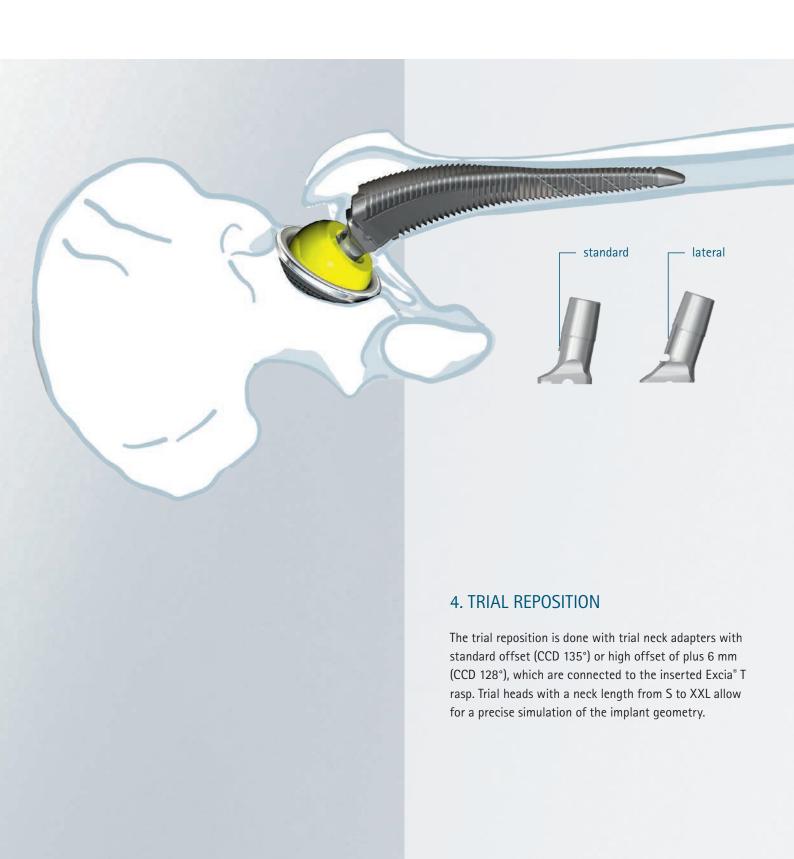
LANDMARK DETERMINATION

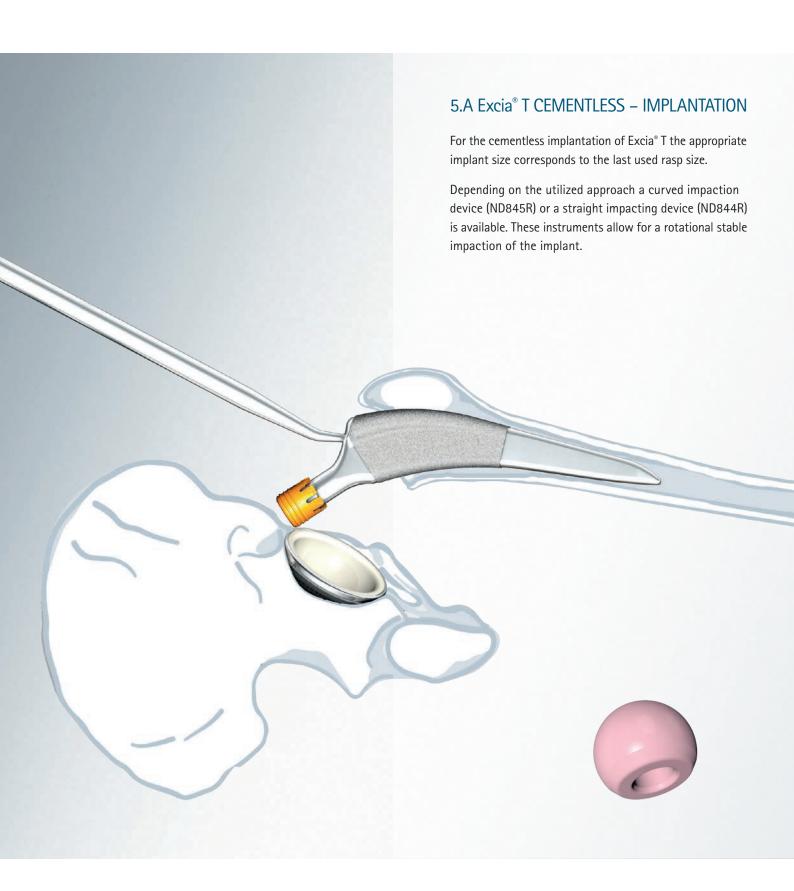
Bony landmarks at the trochanter need to be defined before luxation and resection of the femoral head. According to preoperative and intraoperative measurements of these landmarks leg length changes can be followed. The aim is to achieve the leg length situation that has been determined during the preoperative planning.

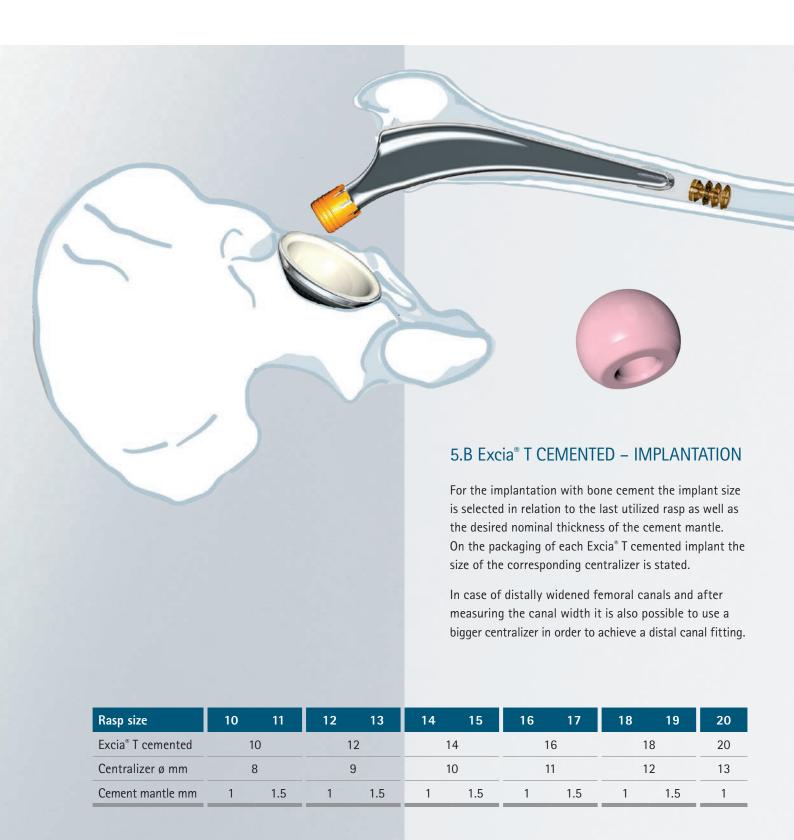












AESCULAP® Excia® T ARTICLE OVERVIEW

HIP ENDOPROSTHESIS SYSTEM



Excia® T CEMENTLESS

Size	Standard T	Lateral TL
8	NU208T	NU228T
9	NU209T	NU229T
10	NU210T	NU230T
11	NU211T	NU231T
12	NU212T	NU232T
13	NU213T	NU233T
14	NU214T	NU234T
15	NU215T	NU235T
16	NU216T	NU236T
17	NU217T	NU237T
18	NU218T	NU238T
19	NU219T	NU239T
20	NU220T	NU240T



Excia® T CEMENTED

Size	Standard T	Lateral TL
10	NU270K	NU290K
12	NU272K	NU292K
14	NU274K	NU294K
16	NU276K	NU296K
18	NU278K	NU298K
20	NU280K	NU300K

 $\mathsf{ISODUR}^{\circ}_{\ _{\mathsf{F}}}$





Centralizer		
NK088		
NK089		
NK090		
NK091		
NK092		
NK093		
NK094		
NK095		
NK096		
NK097		
NK098		

PMMA







mm	Plug
8	NK908
10	NK910
12	NK912
14	NK914
16	NK916
18	NK918

Implant materials:

Plasmapore® Pure titanium (Ti/ISO 5832-2)

ISOTAN* Titanium forged alloy (Ti6Al4V/ISO 5832-3)
ISODUR* Cobald-chromium forged alloy (CoCrMo/ISO 5832-12)

PMMA Polymethylmethacrylate

Composition:

Gelatine (porcine based), approx. 57 % Glycerol (glycerin), approx. 37 % Water (purified), approx. 6 % Methylparahydroxybenzoate, approx. 0.2 %



CERAMIC HEADS

12/14



Size	28 mm	32 mm	36 mm	Size	28 mm	32 mm	36 mm	40 mm
S	NK324	NK424	NK524	S	NK460D	NK560D	NK650D	NK750D
М	NK325	NK425	NK525	М	NK461D	NK561D	NK651D	NK751D
L	NK326	NK426	NK526	L	NK462D	NK562D	NK652D	NK752D
XL	_	NK427	NK527	XL	_	NK563D	NK653D	NK753D

Isocer®



Biolox® delta

METAL HEADS

12/14

Size	28 mm	32 mm	36 mm	40 mm
S	NK429K	NK529K	NK669K	NK769K
М	NK430K	NK530K	NK670K	NK770K
L	NK431K	NK531K	NK671K	NK771K
XL	NK432K	NK532K	NK672K	NK772K
XXL	NK433K	NK533K	NK673K	NK773K

ISODUR®_F

RELATIVE VALUES FOR MODULAR HEADS WITH CONE 12/14

28 mm	≥ 32 mm
- 3.5 mm	- 4.0 mm
± 0 mm	± 0 mm
+ 3.5 mm	+ 4.0 mm
+ 7.0 mm	+ 8.0 mm
+ 10.5 mm	+ 12.0 mm

Implant materials:

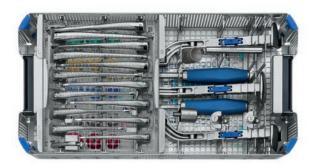
 $\begin{tabular}{ll} Isocer* & Zirconia-toughened alumina ceramic (Al_2O_3/ZrO_2/ISO 6474-2) \\ Biolox* delta & Aluminium oxide matrix ceramic (Al_2O_3/ZiO_2/ISO 6474-2) \\ ISODUR*_F & Cobalt-chromium forged alloy (CoCrMo/ISO 5832-12) \\ \end{tabular}$





AESCULAP® Excia® T ARTICLE OVERVIEW

HIP ENDOPROSTHESIS SYSTEM



Excia® T NT902 BASIC SET RASPS

Consisting of:	
Excia® T tray with small tray for rasps	NT901R
Graphic template for NT901R	TF171
Lid for AESCULAP® OrthoTray®	JA455R
Excia® T extraction adapter	NT904R
Excia® T trial neck 12/14	NT905R
Excia® TL trial neck 12/14	NT906R
Head impactor	ND060
Cross bar for profiler handles	ND017R
Trial prosthesis head, S, 28 mm	NT356
Trial prosthesis head, M, 28 mm	NT357
Trial prosthesis head, L, 28 mm	NT358
Trial prosthesis head, XL, 28 mm	NT359
Trial prosthesis head, XXL, 28 mm	NT360

Trial prosthesis head, S, 32 mm	NT366
Trial prosthesis head, M, 32 mm	NT367
Trial prosthesis head, L, 32 mm	NT368
Trial prosthesis head, XL, 32 mm	NT369
Trial prosthesis head, XXL, 32 mm	NT370
Trial prosthesis head, S, 36 mm	NT376
Trial prosthesis head, M, 36 mm	NT377
Trial prosthesis head, L, 36 mm	NT378
Trial prosthesis head, XL, 36 mm	NT379
Trial prosthesis head, XXL, 36 mm	NT380

Note: The recommended container for Excia $^\circ$ T Basic Set NT902 is AESCULAP $^\circ$ basic container 592 x 285 x 153 mm.

Please order separately:	
Trial prosthesis head, S, 40 mm	NT386
Trial prosthesis head, M, 40 mm	NT387
Trial prosthesis head, L, 40 mm	NT388
Trial prosthesis head, XL, 40 mm	NT389
Trial prosthesis head, XXL, 40 mm	NT390



Excia® T SMALL TRAY

Excia® T rasps	
Rasp size 8	NT928R
Rasp size 9	NT929R
Rasp size 10	NT930R
Rasp size 11	NT931R
Rasp size 12	NT932R
Rasp size 13	NT933R
Rasp size 14	NT934R
Rasp size 15	NT935R
Rasp size 16	NT936R
Rasp size 17	NT937R
Rasp size 18	NT938R
Rasp size 19	NT939R
Rasp size 20	NT940R
Excia® T modular box osteotome	NT903R

Please order separately:	
Excia® T cemented X-ray templates scale 1.15:1	NT922
Excia® T cementless X-ray templates scale 1.15:1	NT923



Please order separately:	
Straight insertion instrument	ND844R
Curved insertion instrument	ND845R
Profiler handle lateral approach, straight *	NT001R
Profiler handle posterior approach, straight *	NT002R
Profiler handle anterior approach, straight *	NT003R
Profiler handle lateral approach, offset left *	NT004R
Profiler handle lateral approach, offset right *	NT005R
Profiler handle anterior approach, offset left *	NT006R
Profiler handle anterior approach, offset right *	NT007R
Profiler handle lateral approach, straight *	NT008R
Profiler handle lateral approach, offset left *	NT009R
Profiler handle lateral approach, offset right *	NT010R
Profiler adapter for woodpecker, straight *	NT115R
Profiler adapter for woodpecker, left *	NT116R
Profiler adapter for woodpecker, right *	NT117R
Femoral head saw guide 45°	ND054R

^{*} three profiler handles can be stored in the tray

AESCULAP® - a B. Braun brand

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