



Cemented Hip Joint Cup type 02/II





Preface

This publication should serve as an surgical manual for implanting the concrete implant and instrumentation set. For reasons of brevity is focused only on the matter of implanting the given type of endoprosthesis, and it assumes that the surgeon in charge and other personnel are fully acquainted with the general rules for the replacement of a hip joint. The aim of the publication is to allow doctors and suture nurses rapid acquaintance with and correct use of the individual elements of the instrumentation set in order that optimal results are achieved and, last but not least, so that there should not be needless damage and depreciation of the instrumentation set or even the implant. In no way is this a textbook of surgical technique.

Description of implant

The cemented cup of the type 02/II has been designed on the basis of the latest findings concerning methods of cement fixing and experience with previous types of cup.

For correct function of the cup it is essential for the layer of cement to be of equal thickness on the entire interface between the surface of the polyethylene cup and the prepared acetabulum and for it to be well compressed and forced into the osseous bed and the grooves on the surface of the cup which secure the cup against rotation and movement in the acetabulum.

The external shape of the cup consists of a spherical surface around the circumference which are six fixing points of so-called centralizers, and one on the cap. The height of the centralizers secures the eccentric cup in the prepared acetabulum and coverage of the entire polyethylene surface of the cup with a cement layer 2mm thick. Many radial and diagonal grooves on this surface secure the cup in the acetabulum against movement and rotation. On the upper part on perimeter it has a compression collar with three grooves for the compression and

A diagnostic ring in the upper part above the collar makes it possible to ascertain the position of the cup on an x-ray. For an offset cup there is also a diagnostic peg located at the highest point of the cup in parallel with the axis.

the venting of surplus bone cement.

Characteristics of implant:

Material: Crosslinked UHWMPE (ISO 5834-2)

Significant improvement in abrasion resistance.

Use of centralizers

Centralizers ensure an even 2mm layer of bone cement.

Stamped-on centralizers

There is no danger of them coming loose.

Compression collar

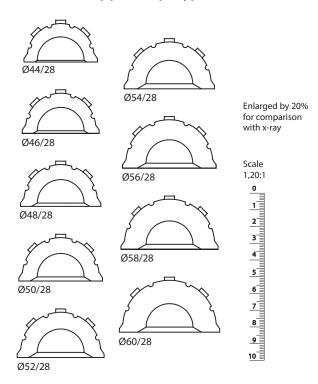
Filling of entire acetabulum with bone cement

Various options:

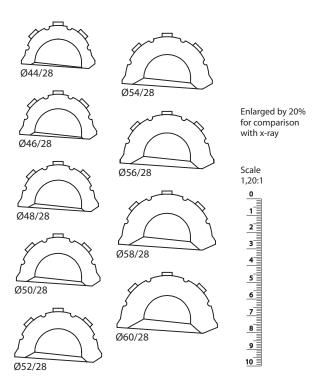
- Standard for most indications.
- Offset with raised edge where there is a danger of luxation.
- Antiluxation provides maximum protection against luxation.

Example of supplied templates for comparison with x-ray

Cemented hip joint cup - type 02/II Standard



Cemented hip joint cup - type 02/II Ofset





ORIGINAL OPTION		NEW OPTION CROSSLINKED				
Type 02/N - Ø28 (Standard)		Type 02/II/N - Ø28 (Standard)				
Ø	Order number	Ø Order numbe				
44	330600	44	330880			
46	330602	46	330881			
48	330604	48	330882			
50	330606	50	330883			
52	330608	52	330884			
54	330610	54	330885			
56	330612	56	330886			
58	330614	58	330887			
60	330616	60	330888			

ORI	GINAL OPTION	NEW OPTION CROSSLINKED				
Ту	pe 02/N – Ø32 (Standard)	Тур	e 02/II/N – Ø32 (Standard)			
Ø	Order number	Ø Order numb				
48	330804	48	330931			
50	330806	50	330932			
52	330808	52	330933			
54	330810	54	330934			
56	330812	56	330935			
58	330814	58 330936				
60	330816	60	330937			

Ту	pe 02/10 - Ø28 (Offset)	Type 02/II/10 – Ø28 (Offset)			
Ø	Order number	Ø	Order number		
44	330620	44	330890		
46	330622	46	330891		
48	330624	48	330892		
50	330626	50	330893		
52	330628	52	330894		
54	330630	54	330895		
56	330632	56	330896		
58	330634	58	330897		
60	330636	60	330898		

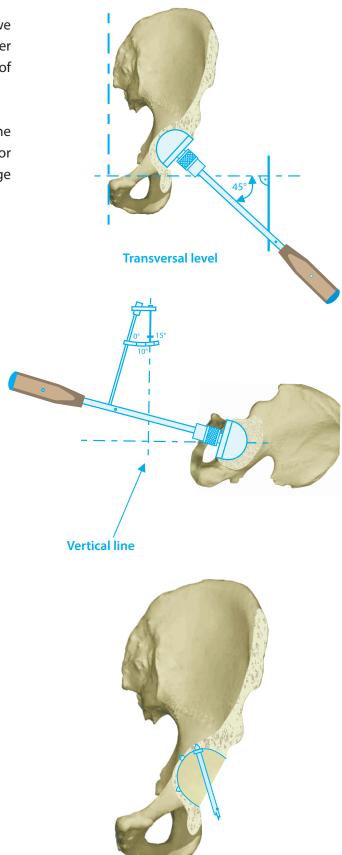
Typ 02/10 - Ø32 (Offset)		Typ 02/II/10 - Ø32 (Offset)		
Ø	Order number	Ø	Order number	
48	330824	48	330941	
50	330826	50	330942	
52	330828	52	330943	
54	330820	54	330944	
56	330822	56	330945	
58	330824	58	330946	
60	330826	60	330947	

	pe 02/10 - Ø28 Antiluxation)	Typ 02/II/A - Ø28 (Antiluxation)			
Ø	Order number	Ø	Order number		
44	330660				
46	330662	46	330901		
48	330664	48	330902		
50	330666	50	330903		
52	330668	52	330904		
54	330660	54	330905		
56	330662	56	330906		
58	330664	58	330907		
60	330666	60	330908		

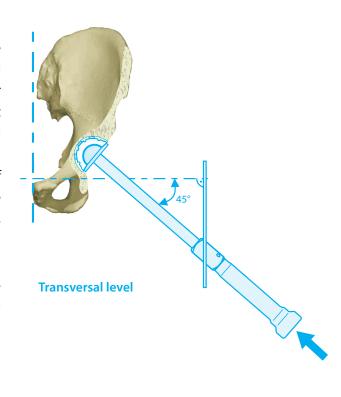
Typ 02/A - Ø32 (Antiluxation)		Typ 02/II/A - Ø32 (Antiluxation)		
Ø	Order number	Ø	Order number	
48	330864	48	330951	
50	330866	50	330952	
52	330868	52	330953	
54	330870	54	330954	
56	330872	56	330955	
58	330874	58	330956	
60	330876	60	330957	

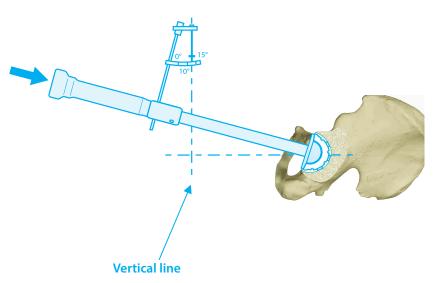
Surgical technique

- 1. After the removal of large edge osteophytes we prepare the acetabulum using an acetabular reamer under the angle of 45° from the longitudinal axis of the patient and at 10° to 15°in the anteverse.
- 2. After the preparation of the acetabulum using the reamer we create anchorage holes (preferably 4) for the bone cement using a drill for the anchorage holes in the acetabulum.

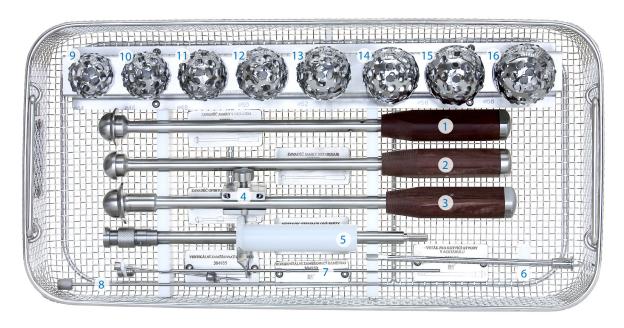


- 3. We insert the bone cement, formed into the shape of the cup, into the prepared acetabulum and then we introduce the cup with centralizers. Their spacing ensures an equal layer of bone cement over the entire surface of the cup. In the frontal level the cup must close with the horizontal line an angle of 45°. The horizontal measuring shoulder of the inserting instrument, which is parallel with the operating table and longitudinal axis of the patient, simplifies this centring for us.
- 4. We center the cup at 10° to 15° in the anteversion. The angle gauge on the vertical measuring arm shows precisely the correct position of the cup.





Surgical technique



INS	INSTRUMENTS FOR APPLICATION OF CEMENTED HIP JOINT CUP OF THE TYPE 02 TRAY LAYOUT							
	Denomination	Qty	Order number					
	Complete set		300360					
1	Cup introducing instrument with edge diameter 28 mm	1pc	302820					
2	Cup introducing instrument without edge diameter 28 mm	1pc	302870					
3	Offset cup introducing instrument with edge diameter 28 mm	1pc	302825					
4	Holder for introducing instrument	1pc	302900					
5	Attachment of acetabular reamer – three-sided end (Synthes)	1pc	304102					
6	Drill for anchorage holes in acetabulum	1pc	302100					
7	Shoulder of vertical measuring instrument with angle gauge	1pc	304935					
8	Shoulder of horizontal measuring instrument	1pc	304930					
9	Acetabular reamer with quick-change attachment, diameter 44 mm	1pc	304625					
10	Acetabular reamer with quick-change attachment, diameter 46 mm	1pc	304635					
11	Acetabular reamer with quick-change attachment, diameter 48 mm	1pc	304640					
12	Acetabular reamer with quick-change attachment, diameter 50 mm	1pc	304645					
13	Acetabular reamer with quick-change attachment, diameter 52 mm	1pc	304650					
14	Acetabular reamer with quick-change attachment, diameter 54 mm	1pc	304655					
15	Acetabular reamer with quick-change attachment, diameter 56 mm	1pc	304665					
16	Acetabular reamer with quick-change attachment, diameter 58 mm	1pc	304670					
For a	a cup of diameter 32 mm use introducing instrument for applicat	ion of ceme	nted cup:					
17	Cup introducing instrument with edge diameter of 32 mm	1pc	302720					
18	Cup introducing instrument without edge diameter 32 mm	1pc	302770					
An ii	ntroducing instrument will be supplied outside the set:							
19	Offset cup introducing instrument with edge diameter of 32 mm	1pc	302722					
Note:	The tray layout is for information purposes only.							



Diameters of acetabular reamers	Dimensions of cups							
ØF	Standard	Offset	Antiluxation					
Ø F		Ø B						
44		44	44					
46		46	46					
48		48						
50		50						
52		52						
54		54						
56	56							
58		58						
60		60						

Note: The diameters of the reamers correspond to the external diameter of the cup, which is shown on the packaging.

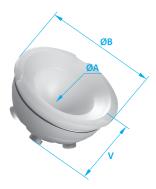
Implants

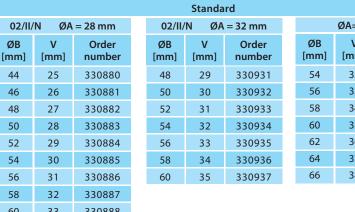
Cup-low-pressure high-molecular polyethylene - UHMWPE highly crosslinked (ISO 5834-2C) **Material:**

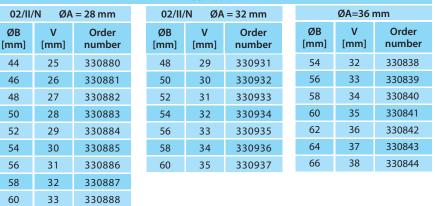
Centralizer - Polymethyl-methacrylate (PMMA)

Diagnostic ring, diagnostic peg - stainless steel (ISO 5832-1)

Note: The modification (crosslinking) UHMWPE is performed according to own patented procedure and should ensure a reduction in the abrasion of UHMWPE wear in vivo by approximately from 70 to 80%.









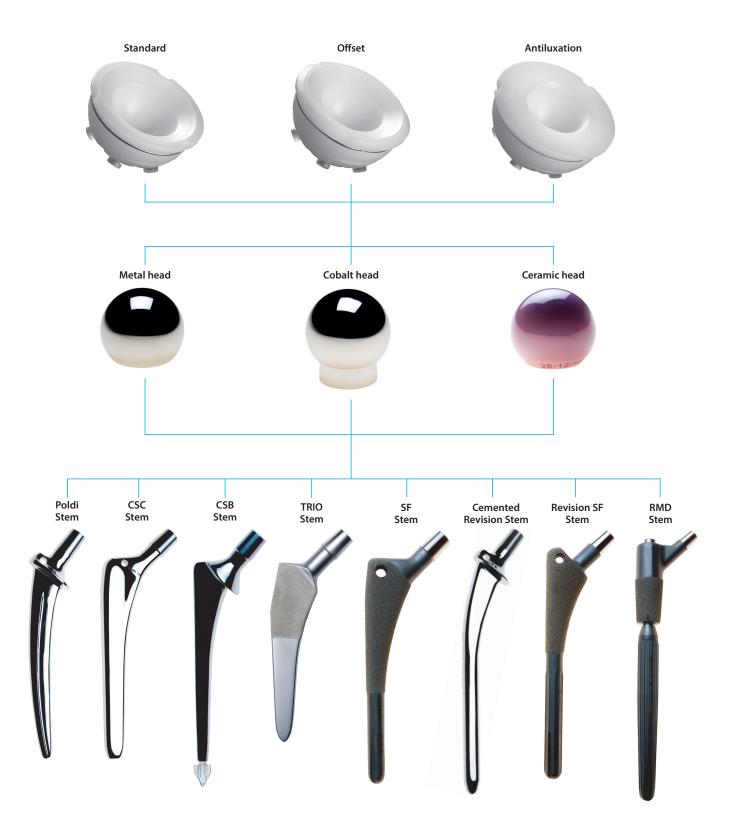
Offset										
02/II/10 ØA = 28 mm			02/11/	10 ØA	1 = 32 mm		ØA=36 mm			
ØB [mm]	V [mm]	Order number	ØB [mm]	V [mm]	Order number		ØB [mm]	V [mm]	Order number	
44	25	330890	48	29	330941		54	32	330846	
46	26	330891	50	30	330942		56	33	330847	
48	27	330892	52	31	330943		58	34	330848	
50	28	330893	54	32	330944		60	35	330849	
52	29	330894	56	33	330945		62	36	330850	
54	30	330895	58	34	330946		64	37	330851	
56	31	330896	60	35	330947		66	38	330852	
58	32	330897								
60	33	330808								



Antiluxation										
02/II/A ØA = 28 mm				02/11/	'A ØA	= 32 mm		ØA=36 mm		
ØB [mm]	V [mm]	Order number		ØB [mm]	V [mm]	Order number		ØB [mm]	V [mm]	Order number
46	26	330901		48	29	330951		54	32	330854
48	27	330902		50	30	330952		56	33	330855
50	28	330903		52	31	330953		58	34	330856
52	29	330904		54	32	330954		60	35	330857
54	30	330905		56	33	330955		62	36	330858
56	31	330906		58	34	330956		64	37	330859
58	32	330907		60	35	330957		66	38	330860
60	33	330908								

90

Combining Cup 02 with Other BEZNOSKA Implants







Contact

Export:

tel.: +420 312 811 221 +420 312 811 225

export@beznoska.cz

C€ 1014