ST/80-703





7.0ChLP femoral periprosthetic plate 3.7220; 3.7221; 3.7222; 3.7223; 3.7224; 3.7225

- IMPLANTS
- INSTRUMENT SET
- SURGICAL TECHNIQUE



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SYMBOLS DESCRIPTION

Ti	Titanium or titanium alloy	H length [mm]		
Co	Cobalt	\bigcirc	Angle	
	Left	88 340	available lengths	
R	Right	4-22	Available number of holes	
LR	Available versions: left/right	1.8	Thickness [mm]	
Len	Length	1:1	Scale 1:1	
\bigcirc	Torx drive		Number of threaded holes in the shaft part of the plate	
Ø	Torx drive cannulated		Number of locking holes in the plate	
\bigcirc	Hexagonal drive	VA	Variable angle	
\bigcirc	Hexagonal drive cannulated	\bigcirc	Cortical	
\bigcirc	Cannulated		Cancellous	
	Locking Available in sterile/ non- sterile condition			
	Diameter [mm]		Refer to surgical technique	
	Caution - pay attention to a special procedure.			
	Perform the activity under X-Ray control.			
i	Information about the next stages of a procedure.			
	Proceed to the next stage.			
\bigcirc	Return to the specified stage and repeat the activity.			
	Before using the product, carefully read the Instructions for Use. It contains, a related to the use of the product.	among others, ind	ications, contraindications, side effects, recommendations and warnings	
	The above description is not a detailed instruction of conduct. The surgeon decides about choosing the operating procedure.			

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 P-002-18.01.2021

 The manufacturer reserves the to introduce design changes.

Updated INSTRUCTIONS FOR USE are available at the following website: ifu.chm.eu

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1. INTRODUCTION

This surgical technique applies to 7.0ChLP locked plating system used for stabilization of proximal femur fractures. The plates are a part of the ChLP locked plating system developed by **ChM**. The presented range of implants is made of materials in accordance with ISO 5832 standards.

The system includes:

- implants (plates and screws),
- instrument set used in the surgery,
- surgical technique.

Indications

- trochanteric osteotomies,
- trochanteric fractures,
- periprosthetic femur fractures.

Plate selection and shaping

The plates are available in various lengths and for left and right limb separately. This allows for optimal selection of the implant to the fracture type. Shaping of the plates in their epiphyseal part is not allowed.

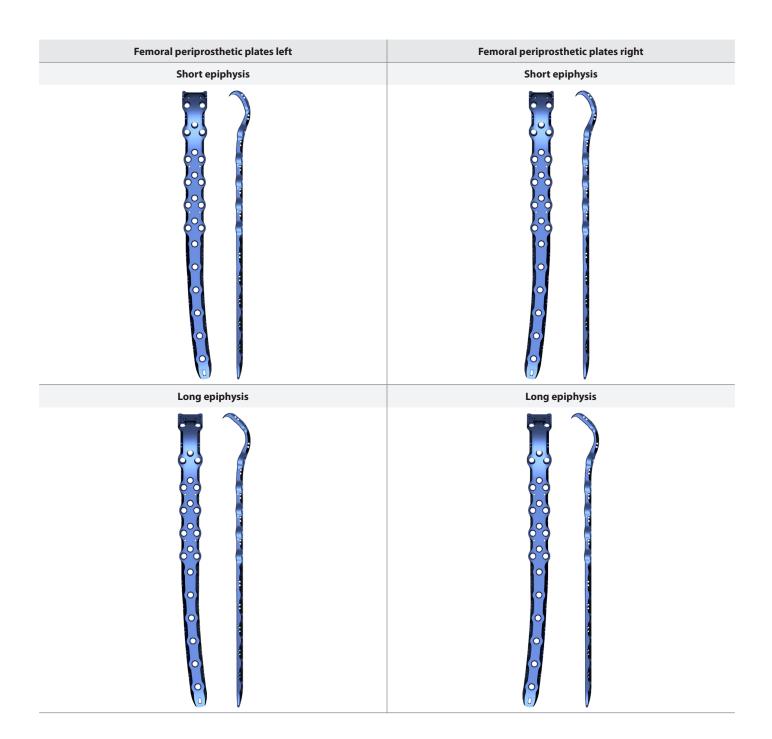


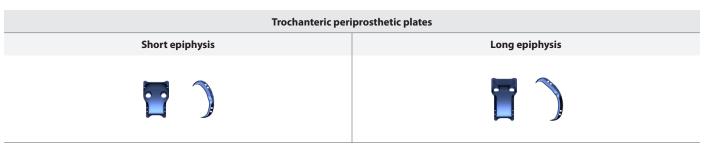
Before using the product, carefully read the Instructions for Use. It contains, among others, indications, contraindications, side effects, recommendations and warnings related to the use of the product.

The above description is not a detailed instruction of conduct. The surgeon decides about choosing the operating procedure.

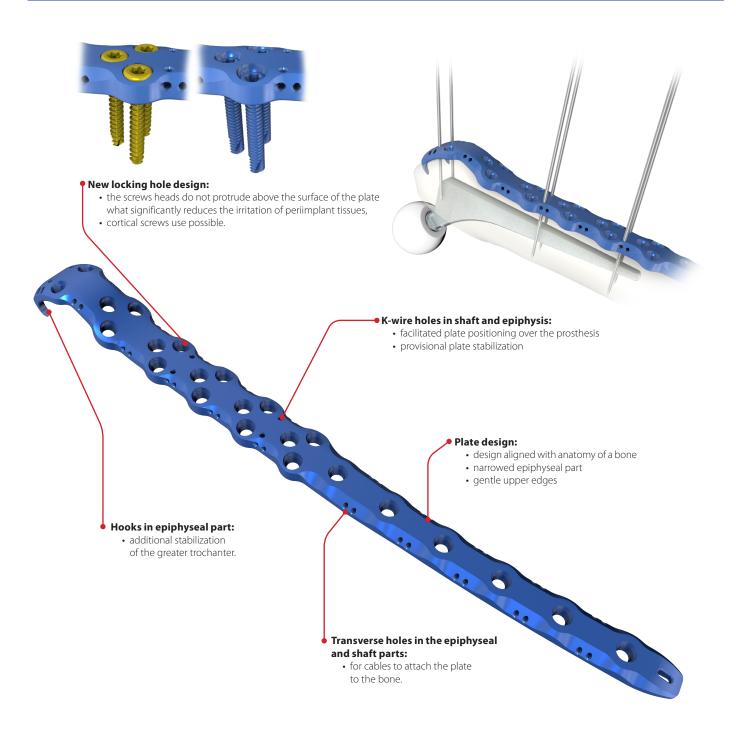
2. IMPLANT DESCRIPTION

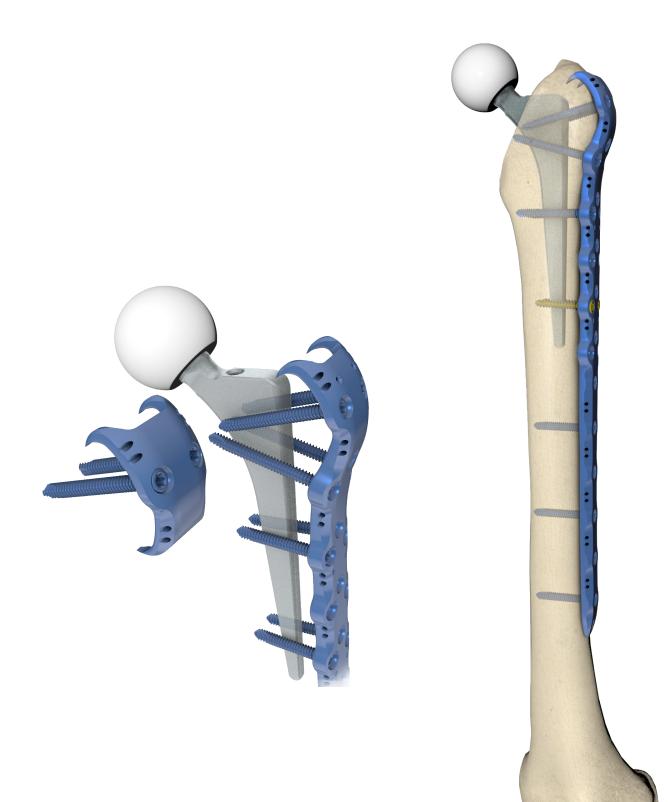
Femoral periprosthetic plates are a part of 7.0ChLP system. This system includes also compatible locking screws. To facilitate their identification, both titanium plate and screws are blue anodized.





7.0ChLP femoral periprosthetic plate





3. SURGICAL TECHNIQUE - 7.0ChLP FEMORAL PERIPROSTHETIC PLATE 3.7220.XXX

3.1. PATIENT'S POSITIONING

Place a patient supine. Ensure lateral and AP visualization.



3.2. SURGICAL APPROACH

Lateral access. Perform a more or less extensive incision of the skin (*depending* on the implant used). The incision shall start from the top of the greater trochanter to the lateral condyle of the femur.



3.3. FRACTURE REDUCTION

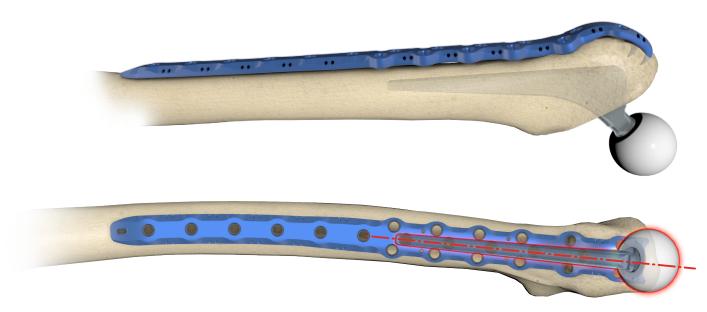
Perform fracture reduction. If need be, temporarily stabilize the bone fragments with Kirschner wires and/or reduction pliers.

3.4. IMPLANT SELECTION

Select the right size of an implant to the type of fracture, bone size and structure.

3.5. PLATE INSERTION

Position the implant correctly on the bone.

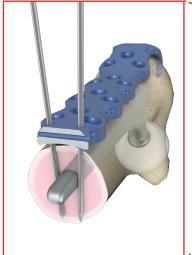


3.6. TEMPORARY PLATE STABILIZATION

Stabilize the position of the implant inserting Kirschner wires into appropriate holes (acc. to procedure 4a).



The Kirschner wires in the epiphyseal part indicate (*in the transverse view*) the plane of the screws to be inserted. They facilitate positioning of the plate over the prosthesis.



3.7. SCREWS INSERTION

Insert screws of a suitable length into the holes of the plate.

- Cortical self-tapping screw 4.5 [3.1471] (acc. to procedure 4b).
- 7.0ChLP self-tapping screw 5.0 [3.5210] (acc. to procedure 4c).



Insert the cortical screws 4.5 into a bone fragment before inserting the locking screws.

The doctor decides about the order and number of locking and cortical screws to be inserted.

3.8. WOUND CLOSURE

Before closing the wound, take an X-Ray image in at least two projections to confirm implant position and fracture reduction. Make sure all the screws are properly tightened and do not penetrate the joint surface. Use appropriate surgical technique to close the wound.

4. SURGICAL PROCEDURES

4a. PROCEDURE OF TEMPORARY IMPLANT STABILIZATION

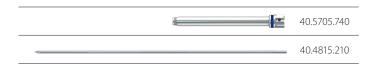
Stabilization using Kirschner wires

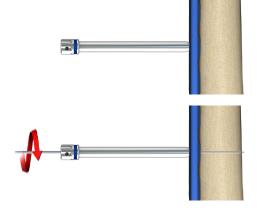
• Stabilize temporary the implant inserting Kirschner wires 2.0/210 **[40.4815.210]** into dedicated holes in the plate.

40.4815.210



- Insert guide sleeve 7.0/4.0 [40.5705.740] into the locking hole of the plate.
- Insert Kirschner wire **[40.4815.210]** through the guide sleeve 7.0/4.0 **[40.5705.740]**.

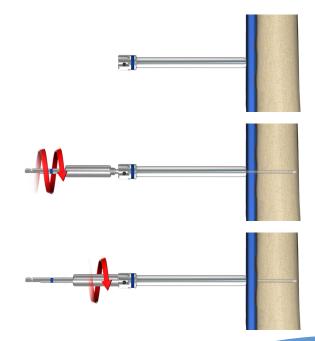




Stabilization using setting-compressing screw

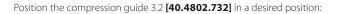
- Insert guide sleeve 7.0/4.0 [40.5705.740] into the locking hole of the plate.
- Insert setting-compressing screw 4.0/180 [40.5706.740] through the guide sleeve 7.0/4.0 [40.5705.740].
- Tighten the nut of the setting-compressing screw 4.0/180 **[40.5706.740]** and push the plate to the bone.





4b. PROCEDURE OF CORTICAL SELF-TAPPING SCREW 4.5 [3.1471] INSERTION

Compression guide positioning





NEUTRAL POSITION: Push the guide to the plate. It will position itself so as neutral insertion of the screw is allowed.

COMPRESSION POSITION: Do not push the guide and move it to the edge of the compression hole. The hole drilled in this position allows compressive insertion of the screw.

ANGULAR POSITION: Angular position of the guide may also be applied.

Hole drilling

Perform a hole through both cortices for a cortical screw 4.5 insertion. For drilling, use drill with scale 3.2/210 **[40.5650.212]** and compression guide in a desired position.

40.5650.212

Measurement of hole depth

Insert depth measure **[40.4639.550]** into drilled hole until the hook of the measure rests against the outer surface of the second cortex.



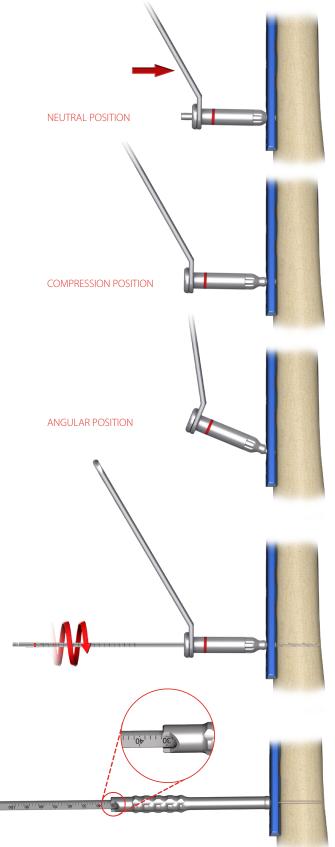
Screw insertion

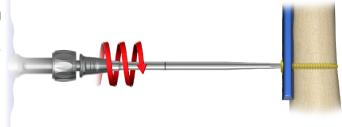
Insert cortical screw using torque limiting ratchet handle T 4Nm **[40.6660.000]** and screwdriver tip T25 **[40.5684.200]**.

-

40.6660.000

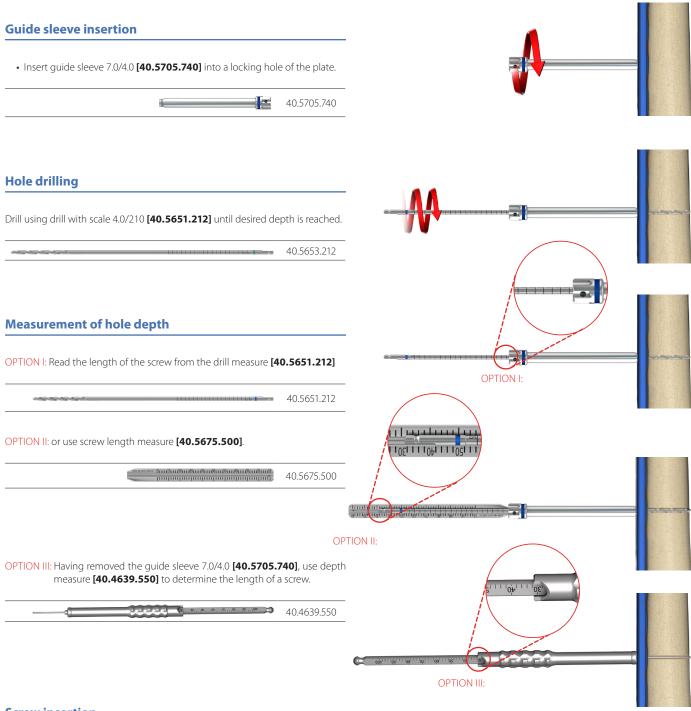
40.5684.200





12/20

4c. PROCEDURE OF 7.0ChLP SELF-TAPPING SCREW 5.0 [3.5210] INSERTION



Screw insertion

Remove the guide sleeve 7.0/4.0 **[40.5705.740]**. Use torque limiting ratchet handle T 4Nm **[40.6660.000]** and screwdriver tip T25 **[40.5684.200]** to insert the locking screw.



5. POSTOPERATIVE PROCEDURE

Introduce appropriate postoperative treatment. The physician decides on the post-operative treatment and its conduct. In order to avoid patient's movement limitations, introduce exercises as soon after surgery as possible. However, make sure that the limb is not fully loaded before fragments osteosynthesis is complete.

6. IMPLANT REMOVAL

The physician decides about implant removal. In order to remove the implants from the body, unlock all the locking screws first and then remove them from the bone. This will prevent any rotation of the plate when removing the last locking screw.

7. CATALOGUE PAGES

7a. INSTRUMENT SET

Instrument set for 7.0ChLP 4x4 1/2H

15.0207.201

No.		Name	Catalogue No.	Pcs
1		Tray for 7.0ChLP instrument set 4x4 1/2H	14.0207.201	1
2		Kirschner wire 2.0/210	40.4815.210	4
3		Drill with scale 3.2/210	40.5650.212	2
4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Drill with scale 4.0/210	40.5651.212	2
5		Cannulated drill with scale 5.0/2.2/210	40.5652.212	1
6		Screwdriver tip T25-1/4	40.5684.200	1
7		Cannulated screwdriver tip T30-1/4	40.5685.200	1
7		Compression guide 3.2	40.4802.732	1
8		Guide sleeve 9.0/5.0	40.5654.750	1
9		Guide sleeve 9.0/3.2	40.5707.732	1
10		Guide sleeve 5.0/2.0	40.5654.120	1
11		Torque limiting ratchet handle T 4Nm	40.6660.000	1
12		Protective guide 9/7	40.5708.000	2
13		Guide sleeve 7.0/3.2	40.5705.732	2
14		Guide sleeve 7.0/4.0	40.5705.740	4

Instrument set for 7.0ChLP 4x4 1/2H

15.0207.202

			15.02	07.202
No.		Name	Catalogue No.	Pcs
1		Tray for 7.0ChLP instrument set 4x4 1/2H	14.0207.202	1
2		Plates bender 7.0	40.4643.700	2
3		Setting-compressing screw 4.0/180	40.5706.740	2
4		Tripod screwdriver tip 7.0ChLP	40.6271.700	1
5		Screwdriver tip T25 with holder	40.6259.200	1
6		Tap 7.0ChLP - 5.0	40.5646.200	1
7		Cortical tap HA 4.5	40.5647.200	1
8	ر (1000)	Screw length measure	40.5675.500	1
	Optional instru	ment		
9		Torque connector 4Nm	40.5927.040	1

7b. Implants

7, OCHM Locked Plating

Ti 7.0ChLP femoral periprosthetic plate

\bigcirc	
Ster Non Ster	



(1)		Ti	SHORT
	\bigcirc	Len	L	R
	6	222	3.7221.606	3.7220.606
	8	274	3.7221.608	3.7220.608
	10	326	3.7221.610	3.7220.610
	12	378	3.7221.612	3.7220.612

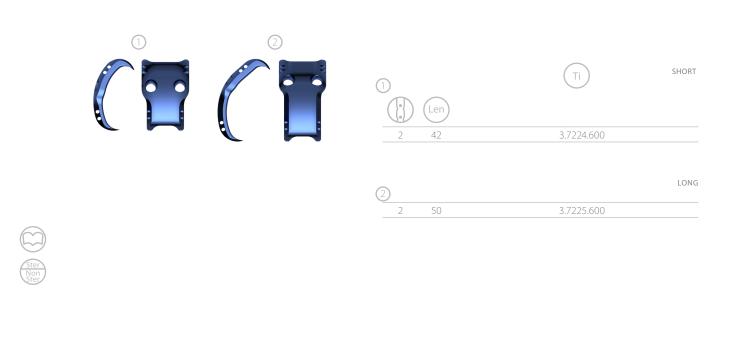
6				LONG
9	/			
	6	229	3.7223.606	3.7222.606
	8	281	3.7223.608	3.7222.608
	10	333	3.7223.610	3.7222.610
	12	384	3.7223.612	3.7222.612







Ti 7.0ChLP trochanteric periprosthetic plate







7c. Screws



Ti (Ster Non Ster 7.0ChLP self-tapping screw 5.0

- 1	
1	
1	
3	
4	
	-

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Len	Ti	
\bigcirc		
16	3.5210.016	
18	3.5210.018	
20	3.5210.020	
22	3.5210.022	
24	3.5210.024	
26	3.5210.026	
28	3.5210.028	
30	3.5210.030	
32	3.5210.032	
34	3.5210.034	
36	3.5210.036	
38	3.5210.038	
40	3.5210.040	
42	3.5210.042	
44	3.5210.044	
46	3.5210.046	
48	3.5210.048	
50	3.5210.050	
52	3.5210.052	
54	3.5210.054	
56	3.5210.056	
58	3.5210.058	
60	3.5210.060	
65	3.5210.065	
70	3.5210.070	
75	3.5210.075	
80	3.5210.080	
85	3.5210.085	
90	3.5210.090	
95	3.5210.095	
100	3.5210.100	
105	3.5210.105	
110	3.5210.110	

Cortical self-tapping screw 4.5

Len	Ті
16	3.1471.016
18	3.1471.018
20	3.1471.020
22	3.1471.022
24	3.1471.024
26	3.1471.026
28	3.1471.028
30	3.1471.030
32	3.1471.032
34	3.1471.034
36	3.1471.036
38	3.1471.038
40	3.1471.040
42	3.1471.042
44	3.1471.044
46	3.1471.046
48	3.1471.048
50	3.1471.050
52	3.1471.052
54	3.1471.054
56	3.1471.056
58	3.1471.058
60	3.1471.060
65	3.1471.065
70	3.1471.070
75	3.1471.075
80	3.1471.080
85	3.1471.085
90	3.1471.090
95	3.1471.095
100	3.1471.100
105	3.1471.105
110	3.1471.110

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