



5.0ChLP distal humerus Y plate 3.7243; 3.7244

• IMPLANTS



• SURGICAL TECHNIQUE



www.chm.eu

SYMBOLS DESCRIPTION

	Titanium or titanium alloy	H	H length [mm]	
	Cobalt		Angle	
	Left	88 340	available lengths	
	Right	4-22	Available number of holes	
	Available versions: left/right	1.8	Thickness [mm]	
	Length	1:1	Scale 1:1	
	Torx drive		Number of threaded holes in the shaft part of the plate	
	Torx drive cannulated		Number of locking holes in the plate	
	Hexagonal drive	VA	Variable angle	
	Hexagonal drive cannulated		Cortical	
	Cannulated		Cancellous	
	Locking	Ster Non Ster	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.			
	Information about the next stages of a procedure.			
	Proceed to the next stage.			
	Return to the specified stage and repeat the activity.			
	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.				

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The manufacturer reserves the right 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 5.0ChLP locked plating system used for stabilization of distal humerus 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 during surgery,
- · surgical technique.

Indications

- periarticular distal fractures of the humerus,
- distal humerus fractures extended to the shaft,
- · corrective osteotomies,
- mal-unions and non-unions.

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 is allowed.



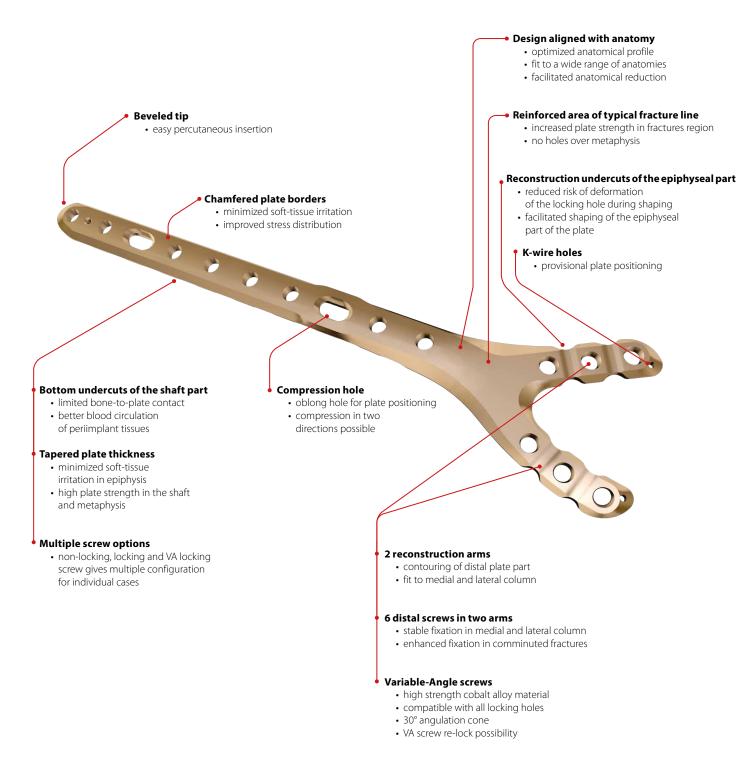
Before using the product, carefully read the Instructions for Use. It contains, among others, indications, contraindications, side effects, recommendations and warnings related to the use of the product.



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

2. IMPLANT DESCRIPTION

Distal humerus Y plates are a part of 5.0ChLP system. This system includes also compatible locking screws. To facilitate their identification, both titanium plate and screws are brown anodized.



5.0ChLP distal humerus Y plate



3. SURGICAL TECHNIQUE

3.1. PATIENT'S POSITIONING







Supine positioning



3.2. SURGICAL APPROACH

Posterior approach

Particular attention should be paid to the ulnar nerve which should be exposed. The posterior approach that bypasses the olecranon, allows for the chevron olecranon osteotomy for better visualization of the fracture site.



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. Use plate trials **[43.7243.608]**/**[43.7244.608]** to determine the length of the implant.





43.7243.608 43.7244.608





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 or using setting-compressing screw (acc. to procedure 4a).

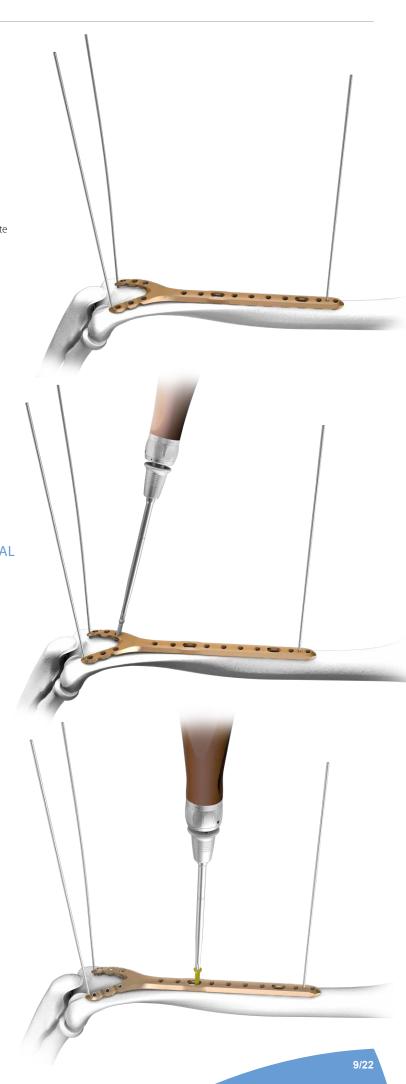
3.7. LOCKING SCREWS INSERTION IN THE EPIPHYSEAL PART OF THE PLATE

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

- 5.0ChLP self-tapping screw 3.5 [3.5200] (acc. to procedure 4c).
- 5.0ChLP screw VA 3.5 [3.5236] (acc. to procedure 4d)

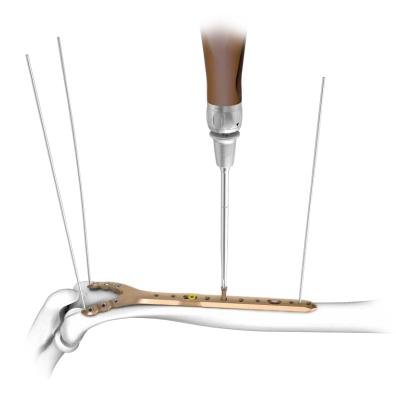
3.8. CORTICAL SCREWS INSERTION IN THE SHAFT

Insert cortical self-tapping screw 3.5 **[3.1306]** into the oval-shaped hole of the plate. If necessary, perform compression *(acc. to procedure 4b)*.



3.9. LOCKING SCREWS INSERTION IN THE SHAFT PART OF THE PLATE

Insert 5.0ChLP self-tapping screw 3.5 **[3.5200]** of a suitable length into the locking holes of the shaft part of the plate (acc. to procedure 4c).





Insert the cortical screws 3.5 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.

3.10. 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.



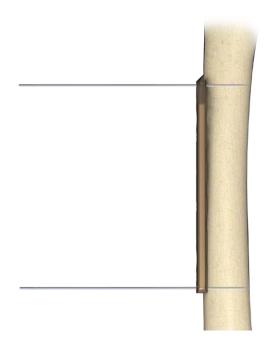
4. SURGICAL PROCEDURES

4a. PROCEDURE OF TEMPORARY IMPLANT STABILIZATION

Stabilization using Kirschner wires

• Stabilize temporary the implant inserting Kirschner wires 1.5/210 **[40.4592.210]** into dedicated holes in the plate.

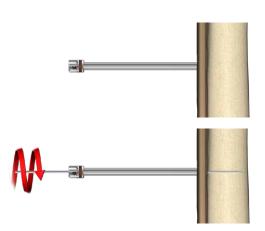
40.4592.210



Stabilization in locking holes using Kirschner wires

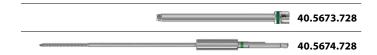
- Insert guide sleeve 5.0/1.8 [40.5673.718] into the locking hole of the plate.
- Insert Kirschner wire **[40.4592.210]** through the guide sleeve 5.0/1.8 **[40.5673.718]**.

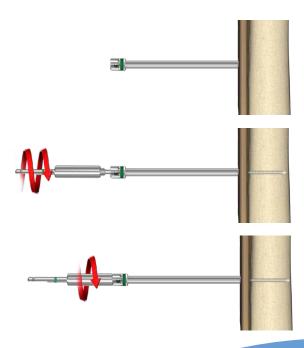




Stabilization using setting-compressing screw

- Insert guide sleeve 5.0/2.8 **[40.5673.728]** into the locking hole of the plate.
- Insert setting-compressing screw 2.8/180 [40.5674.728] through the guide sleeve 5.0/2.8 [40.5673.728].
- Tighten the nut of the setting-compressing screw **[40.5674.728]** and push the plate to the bone.





4b. PROCEDURE OF CORTICAL SELF-TAPPING SCREW 3.5 [3.1306] INSERTION

Compression guide positioning

Position the compression guide 2.5 [40.4804.725] in a desired position:



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

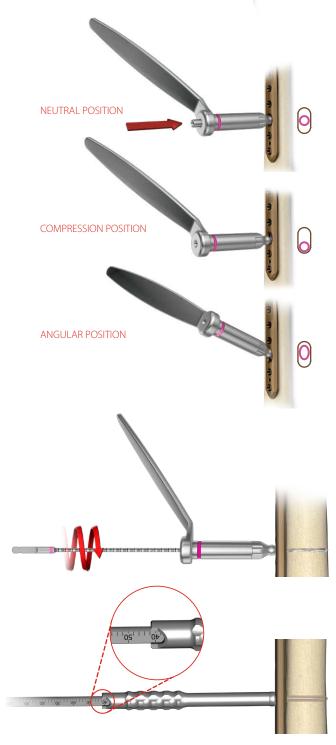
Perform a hole through both cortices for a cortical screw 3.5 insertion. For drilling, use drill with scale 2.5/210 **[40.5912.212]** and compression guide in a desired position.



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.

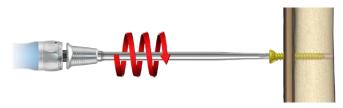




Screw insertion

Insert cortical screw using handle ratchet device [40.6654.000] and screwdriver tip T15 [40.5677.000].



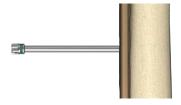


4c. PROCEDURE OF 5.0ChLP SELF-TAPPING SCREW 3.5 [3.5200] INSERTION

Guide sleeve insertion

• Insert guide sleeve 5.0/2.8 [40.5673.728] into a locking hole of the plate.





Hole drilling

Drill using drill with scale 2.8/210[40.5653.212] until desired depth is reached.



Measurement of hole depth

OPTION I: Read the length of the screw from the drill measure [40.5653.212]



OPTION II: or use screw length measure [40.5675.500].



OPTION III: Having removed the guide sleeve 5.0/2.8 **[40.5673.728]**, use depth measure **[40.4639.550]** to determine the length of a screw.



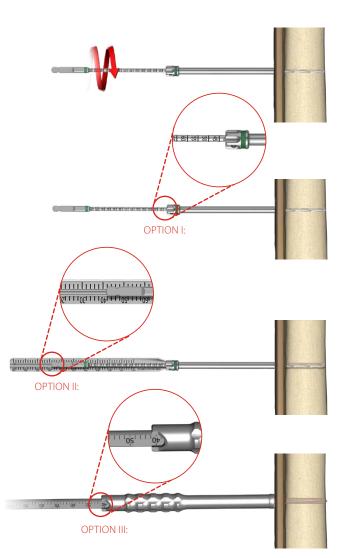
Screw insertion

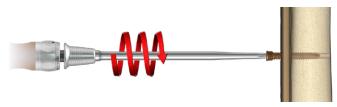
Remove the guide sleeve 5.0/2.8 **[40.5673.728]**. Use torque limiting ratchet handle 2Nm **[40.6652.000]** and screwdriver tip T15 **[40.5677.000]** to insert the locking screw.





The final tightening of the locking screw, especially when a drive is used, should always be performed with the use of torque limiting handle. Failure to use the torque limiting handle may lead to intraoperative and postoperative complications (during later removal of the plate and locking screws).





4d. PROCEDURE OF 5.0ChLP SCREW VA 3.5 [4.5236]



When using variable angle (VA) screws, there is a risk of collision of screws or a drill with already implanted screws. Well-thought-out trajectory of inserted screws and intraoperative X-Ray control of drilling reduces the risk of the collision.

Guide VA positioning

- Insert the guide VA 2.8 [40.8206.028] into the locking hole co-axially.
- Set the desired inclination of the guide in relation to the locking hole axis. The guide enables the inclination of 15° in each direction with respect to the axis of the locking hole.





Exceeding the inclination angle of more than 15° may prevent proper locking of the VA screw in the plate hole.

Hole drilling

• Drill using drill with scale 2.8/210 [40.5653.212] until desired depth is reached.





Drill under X-Ray control to avoid a collision of the drill with already implanted screws.

Measurement of hole depth

OPTION I: Read the length of the screw from the drill measure [40.5653.212].

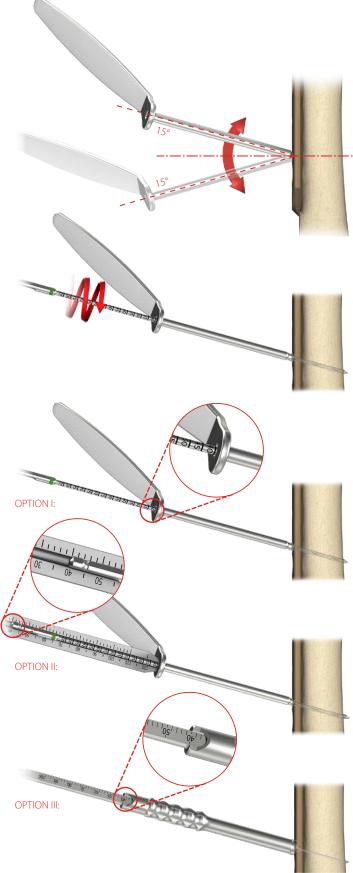


OPTION II: or use screw length measure [40.5675.500].



OPTION III: Having removed the guide VA, use depth measure **[40.4639.550]** to determine the length of the screw.







Screw insertion

Use torque limiting ratchet handle 2Nm [40.6652.000] and screwdriver tip T15 [40.5677.000] to insert the VA screw.

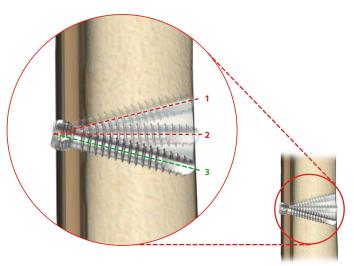






When using torque limiting handle to tighten the VA screw with large inclination in relation to the axis of the locking hole, the head of the screw may protrude above the plate. In this case, it may be necessary to use a handle ratchet device [40.6654] and screwdriver tip T15 [40.5677]. Use the instruments carefully to tighten the VA screw. Avoid damaging the screw socket or screwdriver tip. Do not insert the screw too deep into the plate.





Change of the VA screw positioning



It is possible to lock the VA screw three times in the threaded hole of the plate. $\,$

The hole in the plate in which the VA screw was locked cannot be used to insert a standard 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 5.0ChLP 4x4 1/2H

15.0205.206

Instrument Section 5.0ener 4x4 1/211			75.200
	Name	Catalogue No.	Pcs
And the second s	Tray for 5.0ChLP instrument set 4x4 1/2H	14.0205.206	1
	Kirschner wire 1.5/210	40.4592.210	4
	Drill 1.8/210	40.2063.212	2
	Drill with scale 2.5/210	40.5912.212	2
[8 18 18 18 18 18 18 18 18 18 18 18 18 18	Drill with scale 2.8/210	40.5653.212	2
	Screwdriver tip T15	40.5677.000	1
	Torque limiting ratchet handle 2Nm	40.6652.000	1
	Handle ratchet device	40.6654.000	1
	Protective guide 7/5	40.5672.000	2
	Guide VA 2.8	40.8206.028	1
	Compression guide 2.5	40.4804.725	1
	Guide sleeve 5.0/1.8	40.5673.718	2
	Guide sleeve 5.0/2.8	40.5673.728	4
	Depth measure	40.4639.550	1

Instrument set for 5.0ChLP 4x4 1/2H 15.0205.202

	Name	Catalogue No.	Pcs
	Tray for 5.0ChLP instrument set 4x4 1/2H	14.0205.202	1
	Setting-compressing screw 2.8/180	40.5674.728	1
²⁰⁰⁰⁻²⁰⁰ Ֆունումումումումումումումումումում թուղադարարարարարար	Screw length measure	40.5675.500	1
	Plates bender 5.0	40.4643.500	2
	Tripod screwdriver tip 5.0ChLP	40.6271.500	1
	T15 screwdriver tip with holder	40.6254.000	1
	Cortical tap HA 3.5 with handle	40.2548.200	1
	Tap 5.0ChLP-3.5	40.5661.000	1
Option	al instrument		
	Torque connector 2Nm	40.5927.020	1

7b. IMPLANTS

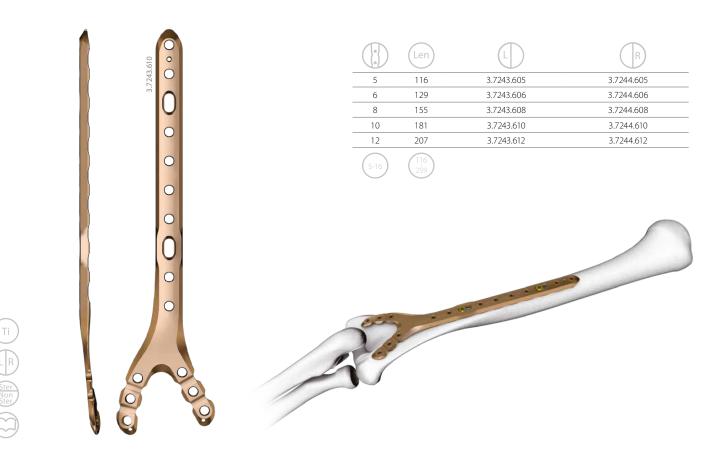




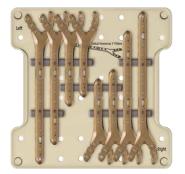




5.0ChLP distal humerus Y plate



	Ti	Co				0	
3.5200.012÷095	/		\checkmark	\checkmark	\checkmark		3.5
4.5236.012÷095		\checkmark	/	\checkmark	/		3.5
3.1306.012÷095	\checkmark		/		\checkmark		4.5



Tray for plates 5.0ChLP 3.7243/3.7244 4x4 1/2H Поддон для блокируемых пластин 5,0ChLP 3.7243/3.7244 4x4 1/2H

14.0205.429



Plate 3.7243.608 trial Plate 3.7244.608 trial 43.7243.608 43.7244.608

7c. SCREWS

5,0 ChM Locked Platin

5.0ChLP self-tapping screw 3.5





12 3.5200.012 14 3.5200.014 16 3.5200.016 18 3.5200.020 20 3.5200.020 22 3.5200.022 24 3.5200.026 28 3.5200.028 30 3.5200.032 34 3.5200.032 34 3.5200.034 36 3.5200.038 40 3.5200.040 42 3.5200.042 44 3.5200.044 46 3.5200.046 48 3.5200.048 50 3.5200.050 52 3.5200.052 54 3.5200.052 54 3.5200.056 58 3.5200.058 60 3.5200.060 65 3.5200.070 75 3.5200.080 85 3.5200.085	Len	Ti
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26 3.5200.026 28 3.5200.028 30 3.5200.030 32 3.5200.032 34 3.5200.034 36 3.5200.038 40 3.5200.040 42 3.5200.042 44 3.5200.044 46 3.5200.046 48 3.5200.046 50 3.5200.050 52 3.5200.052 54 3.5200.056 58 3.5200.056 58 3.5200.058 60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075	22	3.5200.022
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52 3.5200.052 54 3.5200.054 56 3.5200.056 58 3.5200.058 60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	48	3.5200.048
54 3.5200.054 56 3.5200.056 58 3.5200.058 60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	50	3.5200.050
56 3.5200.056 58 3.5200.058 60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	52	3.5200.052
58 3.5200.058 60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	54	3.5200.054
60 3.5200.060 65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	56	3.5200.056
65 3.5200.065 70 3.5200.070 75 3.5200.075 80 3.5200.080	58	3.5200.058
70 3.5200.070 75 3.5200.075 80 3.5200.080	60	3.5200.060
75 3.5200.075 80 3.5200.080	65	3.5200.065
80 3.5200.080	70	3.5200.070
	75	3.5200.075
85 3.5200.085	80	3.5200.080
	85	3.5200.085

5.0ChLP screw VA 3.5





Len	(Co)
12	4.5236.012
14	4.5236.014
16	4.5236.016
18	4.5236.018
20	4.5236.020
22	4.5236.022
24	4.5236.024
26	4.5236.026
28	4.5236.028
30	4.5236.030
32	4.5236.032
34	4.5236.034
36	4.5236.036
38	4.5236.038
40	4.5236.040
42	4.5236.042
44	4.5236.044
46	4.5236.046
48	4.5236.048
50	4.5236.050
52	4.5236.052
54	4.5236.054
56	4.5236.056
58	4.5236.058
60	4.5236.060
65	4.5236.065
70	4.5236.070
75	4.5236.075
80	4.5236.080
85	4.5236.085
90	4.5236.090
95	4.5236.095

Cortical self-tapping screw 3.5





Len	Ti	
10	3.1306.010	
12	3.1306.012	
14	3.1306.014	
16	3.1306.016	
18	3.1306.018	
20	3.1306.020	
22	3.1306.022	
24	3.1306.024	
26	3.1306.026	
28	3.1306.028	
30	3.1306.030	
32	3.1306.032	
34	3.1306.034	
36	3.1306.036	
38	3.1306.038	
40	3.1306.040	
45	3.1306.045	
50	3.1306.050	
55	3.1306.055	
60	3.1306.060	
65	3.1306.065	
70	3.1306.070	
75	3.1306.075	
80	3.1306.080	
85	3.1306.085	

4.5ChLP screw 2.4





Len	Ti
16	3.5225.016
18	3.5225.018
20	3.5225.020
22	3.5225.022
24	3.5225.024
26	3.5225.026
28	3.5225.028
30	3.5225.030
32	3.5225.032
34	3.5225.034
36	3.5225.036
38	3.5225.038
40	3.5225.040

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