
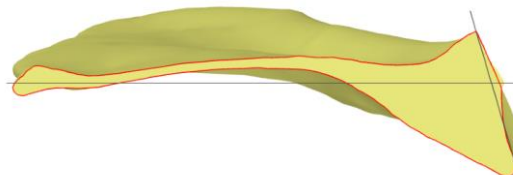


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MEGASYSTEM-C® Upper Limb	Rev. 01 - 30.11.2020	1 / 5
SURGICAL TECHNIQUE		

## Wedged Glenoid Baseplates

In case of eccentric bone defect of the glenoid (B2, D, E2, E3) the angular defect is previously measured in the CT/MRI scan. If the angular defect is lower than 10° an over-reaming of the frontal surface is accepted. If Equal or wider than 10° a bone graft or an extended wedged baseplate is recommended.



For the preparation of the bone site to host the Wedged Baseplates, two techniques are proposed.

### Step 1 - Glenoid Sizing and Positioning

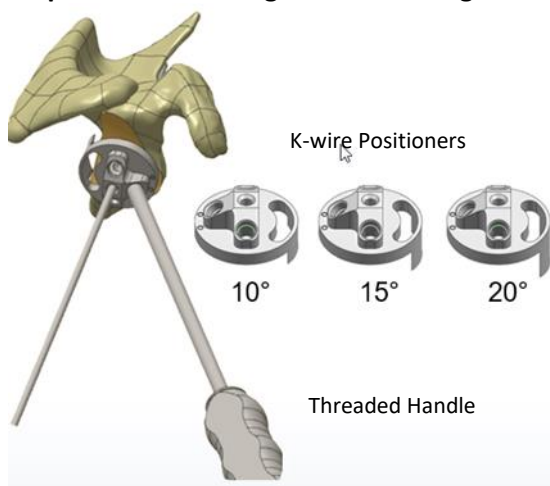


Figure 43

Select the appropriate K-wire Positioner for wedged baseplate based on the amount of glenoid erosion (10°, 15°, 20°).

Attach the selected K-wire Positioner for wedged baseplate to the threaded Handle.

The K-wire Positioner offers three different fixation options for your most convenient handle position. Determine the optimal baseplate position by placing the maximal angulation over the maximum bone defect. Place the K-Wire (Ø 2.5 mm) with the drilling machine through the central hole of the K-wire Positioner for wedged baseplate. Save a reference on the bone corresponding to the position of the K-wire Positioner for wedged baseplate. (Figure 43)

Remove the K-wire Positioner.

### Step 2 - Glenoid Reaming

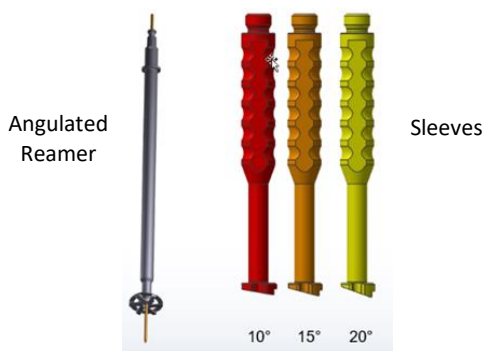


Figure 44

Select the appropriate Sleeve for Angulated Reamer, which matches the K-wire Positioner used in the first step. (Figure 44)

Insert the Reamer (flat) into the slot near the face of the Sleeve and insert the Drive Shaft (Hudson) through the Sleeve from the back.

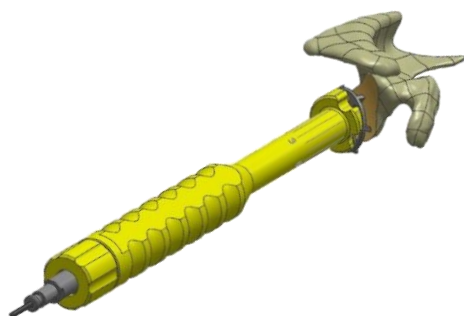
Align the front pins on the Drive Shaft with the slots within the Reamer.

Couple the assembly by threading the Locking Screw (Locking Cap) for Sleeves onto the Sleeve.

Verified by TECH COORD.:	Approved by R&D DIR.:
Date:	Date:

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Figure 45



Slide the assembled Reamer over the K-wire down to the glenoid. Rotate and align the Sleeve to reproduce the position determined in step 1 so that the line on the Sleeve aligns to the reference that was previously made on the bone. (Figure 45)

Carefully ream the glenoid. Do not rotate the Sleeve during reaming.

Place an extended mark (pen or electrocautery) for the right location of the baseplate.

Remove the Reamer.

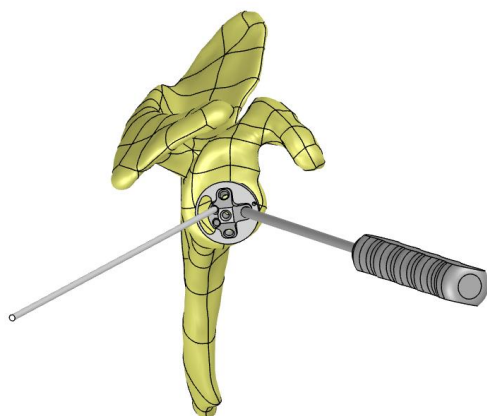
**Alternative Technique to Steps 1 and 2**

Figure 46

Select the appropriate K-wire Positioner for wedged baseplate based on the amount of glenoid erosion (10°, 15°, 20°).

Attach the selected K-wire Positioner for wedged baseplate to the threaded Handle.

Determine the optimal baseplate position by placing the maximal angulation over the maximum bone defect.

Place the K-Wire (Ø 2.5 mm) with the drilling machine through one of the two angulated holes of the K-wire Positioner for wedged baseplate. Save a reference on the bone corresponding to the position of the K-wire Positioner for wedged baseplate. (Figure 46)

Remove the K-wire Positioner.

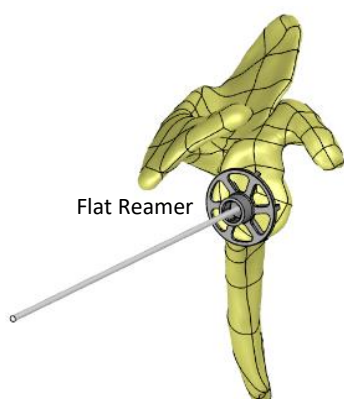
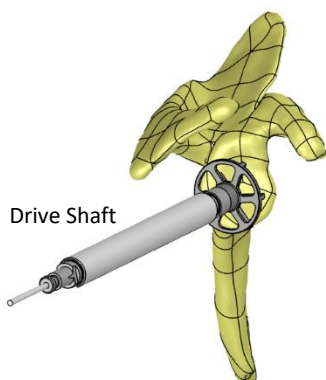


Figure 47

Slide the Flat Reamer along the K-wire up to the contact with the glenoid bone. (Figure 47)

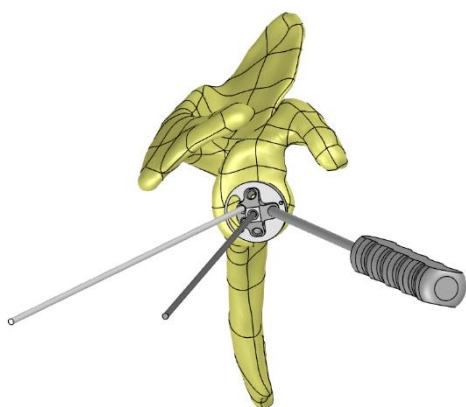
SURGICAL TECHNIQUE

Figure 48



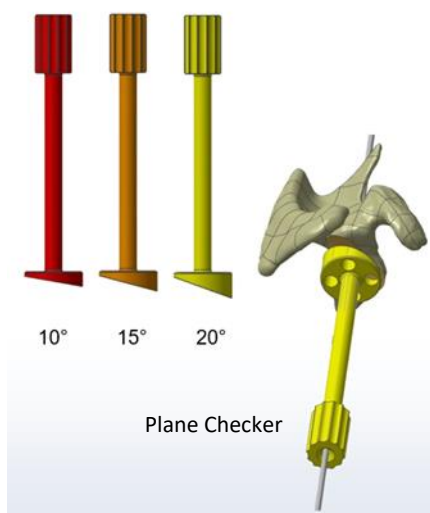
Attach the Drive Shaft (Embrace System code 645-001/01, hexagon with magnetic connection) and ream the bone surface.  
Remove all instruments and leave the K. wire in the bone. (Figure 48)

Figure 49



Reintroduce the K-wire Positioner for wedged baseplate along the same hole used to fix the K. wire and in the same angular position. (Figure 49)  
Place the K-Wire (Ø 2.5 mm) with the drilling machine through the central hole of the K-wire Positioner, then remove the K-wire Positioner and the angulated K. wire.

**Step 3 - Plane checking**



Select the appropriate Plane Checker for wedged baseplate (10°, 15° and 20°) which matches the Sleeve for Angulated Reamer used in the previous step.  
Slide the Plane checker for wedged baseplate over the K-Wire until its face is seated on the prepared glenoid surface. (Figure 50)  
Check if the Plane Checker for wedged baseplate is fully seated.  
The laser marks on these instruments correspond to the templates and final implants.  
In case it is not, additional reaming may be needed to ensure full contact of the baseplate.  
Remove the Plane Checker for wedged baseplate.

Figure 50

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**Step 4 - Drilling of Central Hole**

Figure 51

Use the 12 mm drill to prepare the central hole of the wedged baseplates and the +6 mm lateralized baseplate. Standard 15 mm drill (Embrace System code 645-002/03) is used for the standard and the +3 mm lateralized baseplate.

Attach the corresponding Drill for Central Pegs to the Drive Shaft (Embrace System code 645-001/01) and drill until the depth stop is reached. (Figure 51)

Remove all instruments and the K. wire.

**Step 5 - Glenoid Baseplate Implantation**

Figure 52

Slide the threaded Shaft for Impactor (Embrace System code 645-080/59) into the Impactor (Embrace System code 645-080/56). Turn it clockwise to pass the safety thread that prevents the Shaft from slipping out of the Impactor.

Select the appropriate wedged baseplate and attach it to the Impactor. Fix it firmly by turning the inner Shaft clockwise using the T20 Screwdriver Bit (Embrace System code 80-2030). When connecting the baseplate to the Impactor, align the bold laser line on the Impactor with the laser line on the rim of the baseplate.

Gently introduce the peg into the hole in the glenoid and rotate the Impactor around the peg so that the line on the Impactor aligns to the mark that was made after the reaming of the angulated surface. Axially impact the baseplate until it is fully seated. (Figure 52)

Remove the Impactor and the K-Wire.

**Step 6 - Peripheral screws**


Drill guide for  
wedged  
baseplates

Figure 53

To add peripheral screws, position the Drill guide for wedged baseplates into the central hole of the baseplate. (Figure 53)

The four peripheral holes allow for an angular range of the screws of  $\pm 10^\circ$ .

Drill and screws are from the Embrace system (refer to the Embrace surgical technique).

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### Reverse Glenoid Baseplate

Item No.	Description	Product
<u>645-080/21</u>	<u>Reverse Glenoid Baseplate wedged 10°</u>	
<u>645-080/22</u>	<u>Reverse Glenoid Baseplate wedged 15°</u>	
<u>645-080/23</u>	<u>Reverse Glenoid Baseplate wedged 20°</u>	
<u>645-080/24</u>	<u>Reverse Glenoid Baseplate lateralizing 3 mm</u>	
<u>645-080/25</u>	<u>Reverse Glenoid Baseplate lateralizing 6 mm</u>	
<u>645-080/26</u>	<u>Reverse Glenoid Baseplate Long Peg - Flat</u>	

Table 1

(\* ) Instruments of the Link<sup>®</sup> Embrace<sup>®</sup> System manufactured by Waldemar Link GmbH & Co. KG