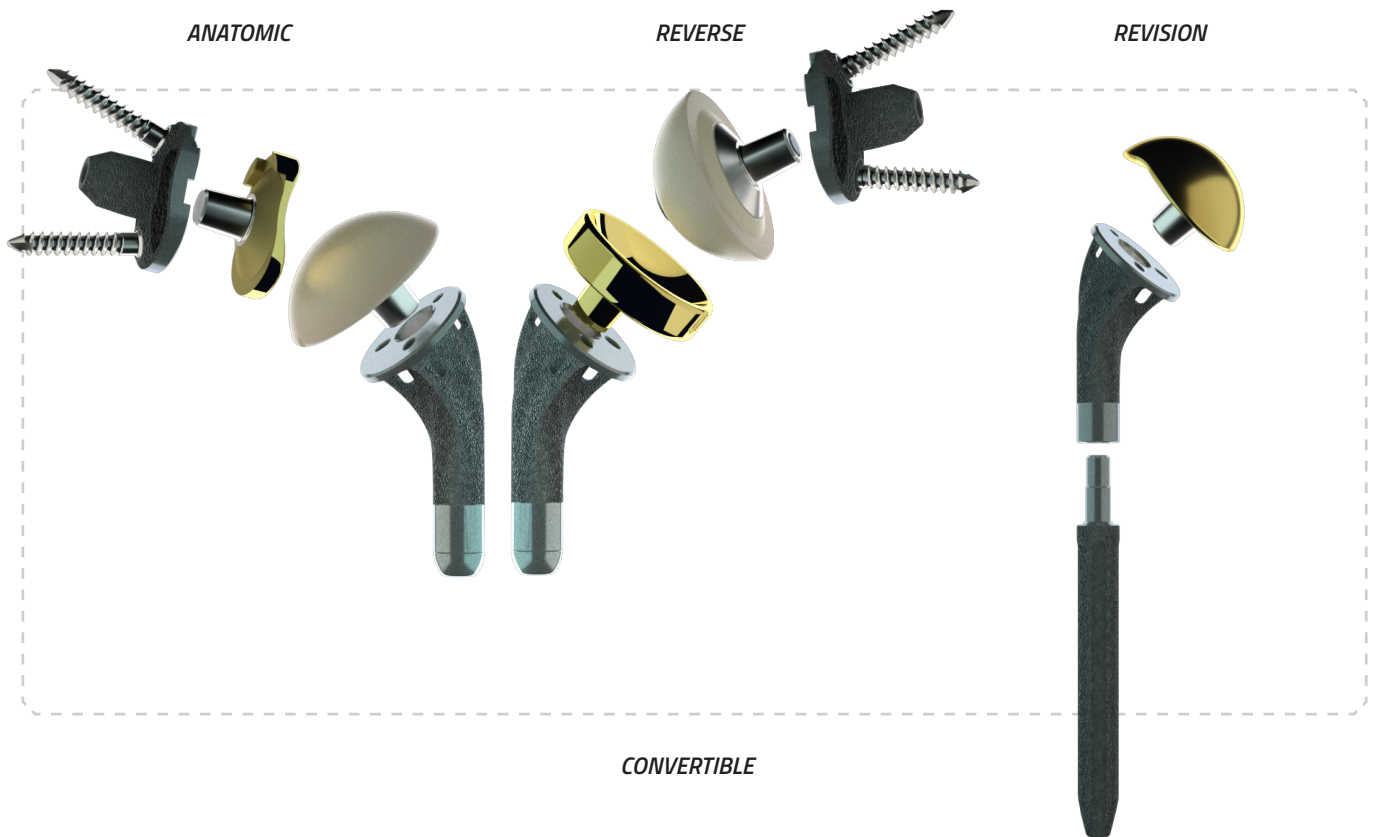


DIXI





**CONCEPT & DESIGN**



**AN INNOVATIVE SHOULDER SYSTEM**

The innovative Dixi shoulder prosthesis offers a number of advantages. Its tri-lobed profile ensures immediate stability of the implant and significantly reduces bone loss. The prosthesis remains convertible throughout all phases of the operation thanks to tools designed to remove each individual component.

Dixi technology allows for complete control of humeral and glenoid lateralization parameters. The materials used avoid any possible problems associated with allergies to CrCo and limit wear and tear in the materials. Furthermore, thanks to an efficient 3D planning service, every detail of the surgery can be planned, which avoids unforeseen events in the operating phase.

**TRI-LOBED PROFILE**

for maximum stability and greater bone sparing

**ON-LAY CONVERTIBILITY**

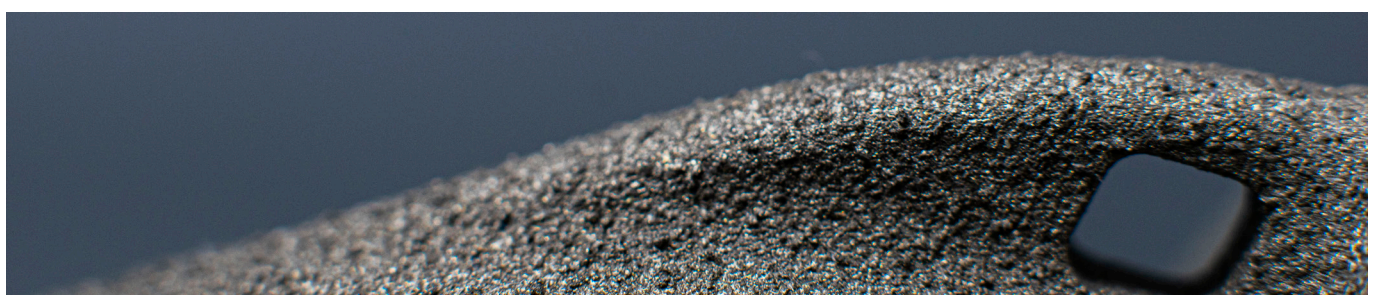
immediate and effective for each component

**NO METAL ALLERGIES**

TiNbN, E-Poly, 3D-Printed Titanium for maximum efficiency, durability and bone integration

**GREAT STABILITY AND HIGH ROM**

Deltoid lever arm augmentation and control of humeral and glenoid lateralization



**CASE LAYOUT |** ERGONOMIC, FUNCTIONAL AND COMPACT.

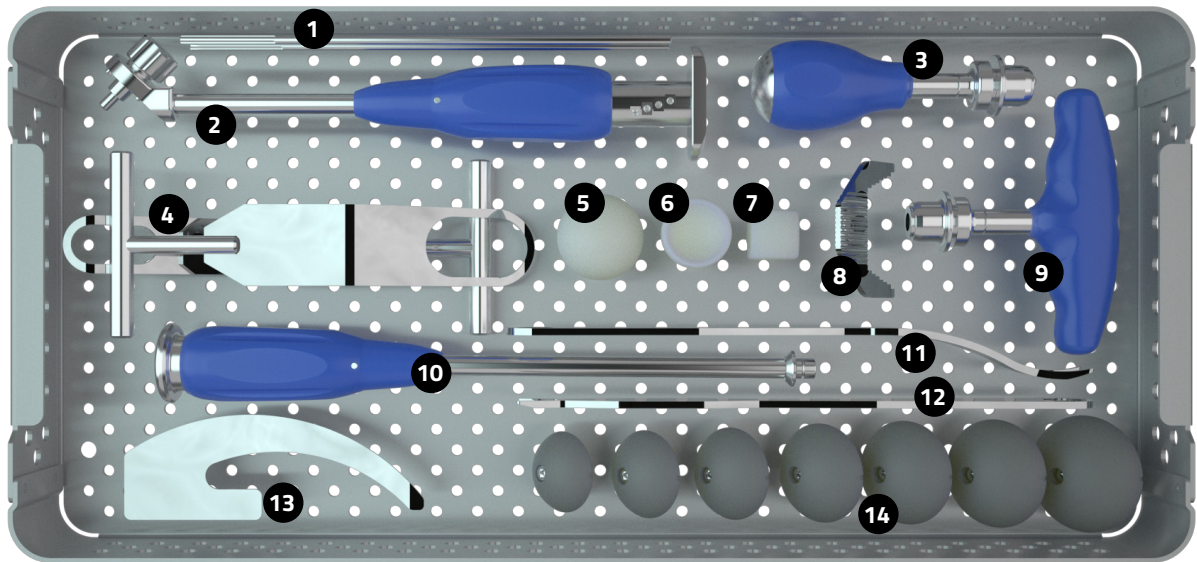
Tools - Anatomical Version



Tools - Reverse/Revision Version



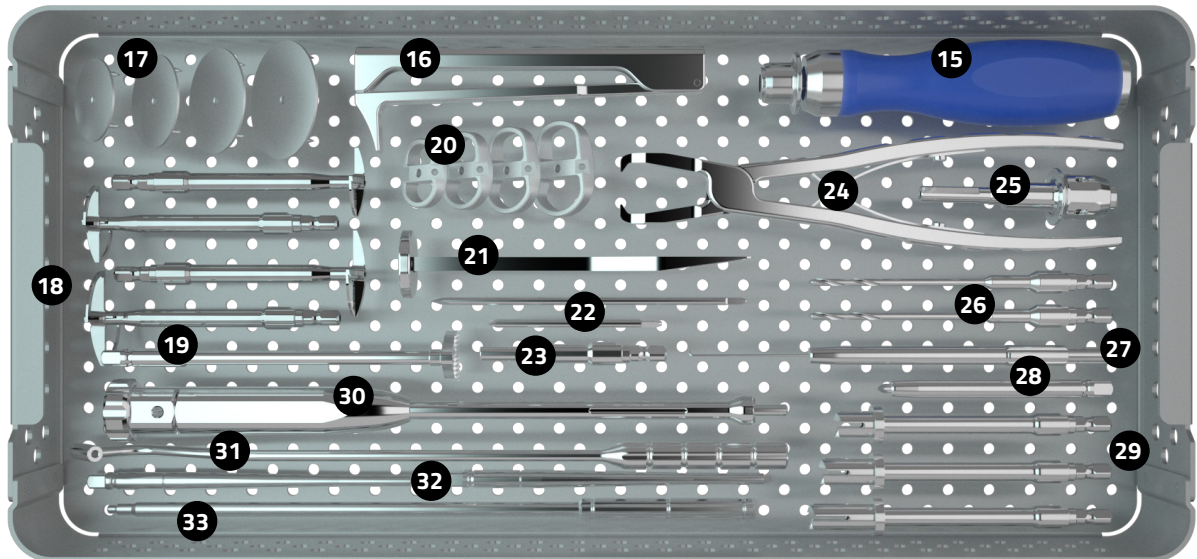
CASE 1 | TRAY 1



<b>1</b> CUTTING GUIDE ROD	DIX-F1SS40015S	<b>8</b> HUMERAL HEAD CALIPER	DIX-K9SS00003S
<b>2</b> HUMERAL COMPONENT HOLDER	DIX-L8SS00000S	<b>9</b> SILICONE T-HANDLE	DIX-Z2SS00000S
<b>3</b> SILICONE PALM HANDLE	DIX-Z1SS00000S	<b>10</b> UNIVERSAL HANDLE	DIX-L5SS00000S
<b>4</b> FUKUDA	DIX-K0SS000XXS	<b>11</b> HOHMANN CURVED	DIX-K1SS10020S
<b>5</b> CUP IMPACTOR	DIX-T0PL00000S	<b>12</b> HOHMANN STRAIGHT	DIX-K1SS00020S
<b>6</b> HUMERAL HEAD IMPACTOR	DIX-T2PL00000S	<b>13</b> CUTTING GUIDE - MASK PROBE	DIX-F1SS50000S
<b>7</b> GLENOID IMPACTOR	DIX-T1PL00000S	<b>14</b> ECCENTRIC HUMERAL HEAD TRIAL	DIX-I1PLXXXXXS

CASE LAYOUT

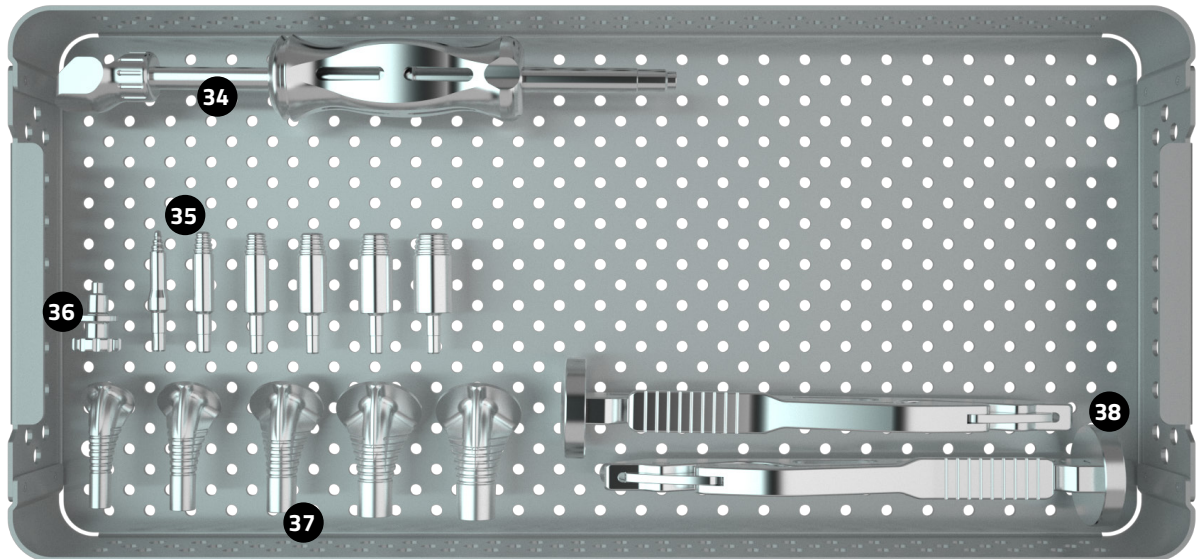
CASE 1 | TRAY 2



<b>15</b> SILICONE RATCHETING HANDLE	DIX-Z4SS000005	<b>25</b> EXTENSION	DIX-J0SS000005
<b>16</b> PIN EXTRACTOR	DIX-K2SS000005	<b>26</b> MARKED DRILL	DIX-C0SS130035
<b>17</b> HUMERAL PROTECTOR	DIX-R0SS0000XS	<b>27</b> GLENOID SCREW CALIPER	DIX-C0SS030035
<b>18</b> GLENOID REAMER - METAL BACK	DIX-A2SS0400XS	<b>28</b> CANCELLOUS SCREW AWL	DIX-K6SS000025
<b>19</b> ASYMMETRICK REAMER	DIX-A0SS00025S	<b>29</b> METAL BACK PEG DRILL	DIX-C1SS0XXXXS
<b>20</b> METAL BACK MASK	DIX-U2SS0XXXXS	<b>30</b> METAL BACK HOLDER	DIX-L3SS000005
<b>21</b> HEAD REMOVER	DIX-D0SS000005	<b>31</b> DRILL GUIDE	DIX-G0SS000035
<b>22</b> PIN	DIX-W0SS0XXXXS	<b>32</b> SCREWDRIVER HEX 3.5MM	DIX-00SS00135S
<b>23</b> PIN HOLDER	DIX-L6SS000005	<b>33</b> DRILL MASK HOLDER	DIX-L4SS000005
<b>24</b> SHELL REMOVER	DIX-D3SS000005		

CASE LAYOUT

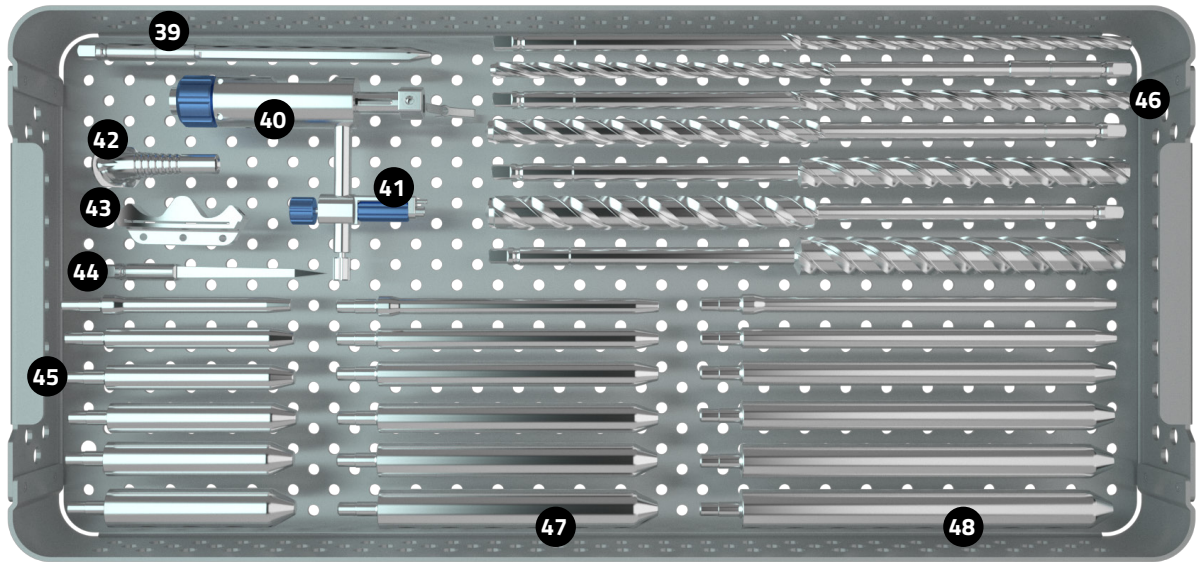
CASE 2 | TRAY 1



<b>34</b> SLIDE HAMMER	DIX-D4SS00000S	<b>37</b> HUMERAL METAPHYSIS TRIAL	DIX-Q3SS000XXS
<b>35</b> HUMERAL STEM TRIAL - S	DIX-S0SS001XXS	<b>38</b> BROACH HOLDER	DIX-L8SS00001S
<b>36</b> HUMERAL COMPONENT INSERT	DIX-T5SS00000S		

CASE LAYOUT

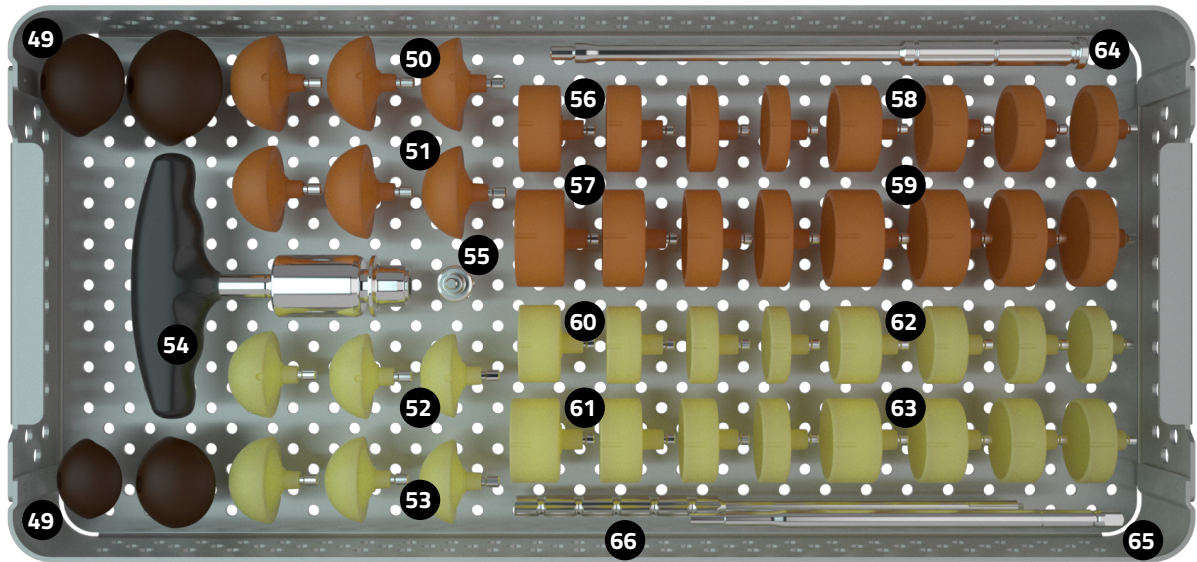
CASE 2 | TRAY 2



<b>39</b> INTRAMED ROD	DIX-K6SS00001S	<b>44</b> AWL	DIX-K6SS00000S
<b>40</b> CUTTING GUIDE - PART 1	DIX-F1SS10000S	<b>45</b> HUMERAL STEM TRIAL - M	DIX-S0SS002XXS
<b>41</b> CUTTING GUIDE - PART 2	DIX-F1SS20000S	<b>46</b> HUMERAL REAMER	DIX-A5SS000XXS
<b>42</b> BROACH	DIX-X0SS00009S	<b>47</b> HUMERAL STEM TRIAL - L	DIX-S0SS003XXS
<b>43</b> CUTTING GUIDE - MASK	DIX-F1SS30000S	<b>48</b> HUMERAL STEM TRIAL - XL	DIX-S0SS004XXS

CASE LAYOUT

CASE 3 | TRAY 1



<b>49</b> CTA HEAD TRIAL	DIX-HOPL0XXXXX	<b>58</b> HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL02XXXX
<b>50</b> ECCENTRICAL GLENOSPHERE TRIAL	DIX-NOPL03XXXX	<b>59</b> HUMERAL CUP TRIAL - STANDARD	DIX-P1PL02XXXX
<b>51</b> GLENOSPHERE TRIAL	DIX-NOPL00XXXX	<b>60</b> HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL04XXXX
<b>52</b> ECCENTRICAL GLENOSPHERE TRIAL	DIX-NOPL03XXXX	<b>61</b> HUMERAL CUP TRIAL - STANDARD	DIX-P1PL04XXXX
<b>53</b> GLENOSPHERE TRIAL	DIX-NOPL00XXXX	<b>62</b> HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL02XXXX
<b>54</b> DINAMOMETRIC T-HANDLE 3.5Nm	DIX-Z3SS000005	<b>63</b> HUMERAL CUP TRIAL - STANDARD	DIX-P1PL02XXXX
<b>55</b> CILINDRICAL ADAPTER	DIX-E2SS000015	<b>64</b> GLENOSPHERE HOLDER	DIX-L1SS000005
<b>56</b> HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL04XXXX	<b>65</b> GLENOSPHERE REMOVER	DIX-D2SS000005
<b>57</b> HUMERAL CUP TRIAL - STANDARD	DIX-P1PL04XXXX	<b>66</b> SCREW HEX 3.5MM HOLDER	DIX-L4SS000015



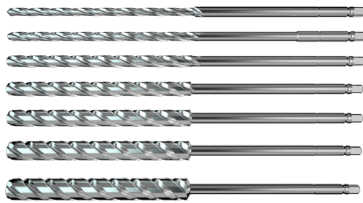
**TOOLS**

ASYMMETRIC REAMER

DIX-A0SS00025S



HUMERAL REAMER



Ø 6 MM	DIX-A5SS00006S
Ø 7 MM	DIX-A5SS00007S
Ø 9 MM	DIX-A5SS00009S
Ø 11 MM	DIX-A5SS00011S
Ø 13 MM	DIX-A5SS00013S
Ø 15 MM	DIX-A5SS00015S
Ø 17 MM	DIX-A5SS00017S

GLENOID REAMER



METAL BACK S	DIX-A2SS04030S
METAL BACK M	DIX-A2SS04034S
METAL BACK L	DIX-A2SS04038S
METAL BACK XL	DIX-A2SS04042S

MODULAR DRILL

DIX-C0SS03003S



MARKED DRILL

DIX-C0SS13003S



METAL BACK PEG DRILLS



L. 14 MM	DIX-C1SS01411S
L. 20 MM	DIX-C1SS02011S
L. 25 MM	DIX-C1SS02511S

TOOLS

HEAD REMOVER DIX-D05S000005



SHELL REMOVER DIX-D35S000005



SLIDE HAMMER DIX-D45S000005



CILINDRICAL ADAPTER MF DIX-E25S000015

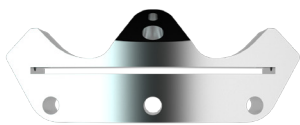


CUTTING GUIDE - GUIDE ROD



LONG	DIX-F15S40045S
SHORT	DIX-F15S40015S

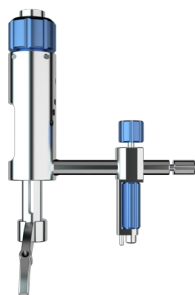
CUTTING GUIDE - MASK DIX-F15S300005



CUTTING GUIDE - MASK PROBE DIX-F15S500005



CUTTING GUIDE DIX-F15S100005  
DIX-F15S200005



DRILL GUIDE DIX-G05S000035



TOOLS

CTA HEAD TRIALS



D36 - H13	DIX-HOPL01336S
D41 - H15	DIX-HOPL01541S
D46 - H17	DIX-HOPL01746S
D52 - H19	DIX-HOPL01952S

ECCENTRIC HUMERAL HEAD TRIALS



Ø36MM - H13MM - 3MM	DIX-I1PL31336S
Ø39MM - H14MM - 3MM	DIX-I1PL31439S
Ø41MM - H15MM - 4MM	DIX-I1PL41541S
Ø44MM - H16MM - 4MM	DIX-I1PL41644S
Ø46MM - H17MM - 4MM	DIX-I1PL41746S
Ø48MM - H18MM - 5MM	DIX-I1PL51848S
Ø52MM - H19MM - 5MM	DIX-I1PL51952S

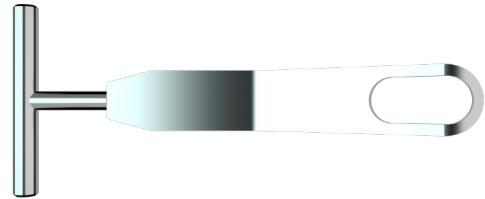
EXTENSION

DIX-J0SS00000S



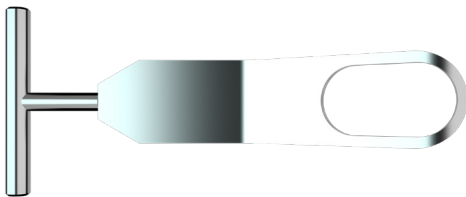
FUKUDA SMALL

DIX-K0SS00025S



FUKUDA LARGE

DIX-K0SS00035S



HOHMANN FLAT

DIX-K1SS00020S



HOHMANN BENT

DIX-K1SSA0020S



PIN EXTRACTOR

DIX-K2SS00000S



TOOLS

AWL DIX-K65S000005



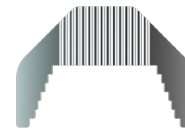
INTRAMED ROD DIX-K65S000015



CANCELLOUS SCREW AWL DIX-K65S000025



HUMERAL HEAD CALIPER DIX-K95S000035



GLENOID SCREW CALIPER DIX-K95S000045



GLENOSPHERE HOLDER DIX-L15S000005



METAL BACK HOLDER DIX-L35S000005



DRILL MASK HOLDER DIX-L45S000005



UNIVERSAL HANDLE DIX-L55S000005



PIN HOLDER DIX-L65S000005



TOOLS

HUMERAL COMPONENT  
HOLDER REVERSE

DIX-L85S000005



BROACH HOLDER

DIX-L85S000015



GLENOSPHERE TRIALS



Ø38MM	DIX-NOPL00038S
Ø42MM	DIX-NOPL00042S
Ø38MM LATERALIZED +2	DIX-NOPL00238S
Ø42MM LATERALIZED +2	DIX-NOPL00242S
Ø38MM LATERALIZED +4	DIX-NOPL00438S
Ø42MM LATERALIZED +4	DIX-NOPL00442S

ECCENTRIC GLENOSPHERE TRIALS



Ø38MM - Eccentric	DIX-NOPL03038S
Ø42MM - Eccentric	DIX-NOPL03042S
Ø38MM LATERALIZED +2 - Eccentric	DIX-NOPL03238S
Ø42MM LATERALIZED +2 - Eccentric	DIX-NOPL03242S
Ø38MM LATERALIZED +4 - Eccentric	DIX-NOPL03438S
Ø42MM LATERALIZED +4 - Eccentric	DIX-NOPL03442S

SCREWDRIVER HEX 3.5MM

DIX-005S00135S



METAPHYSIS TRIALS



SIZE 9	DIX-Q3SS00009S
SIZE 11	DIX-Q3SS00011S
SIZE 13	DIX-Q3SS00013S
SIZE 15	DIX-Q3SS00015S
SIZE 17	DIX-Q3SS00017S

TOOLS

HUMERAL CUP TRIALS



Ø38MM - 2.5MM - +0MM	DIX-P1PL02038S
Ø38MM - 2.5MM - +3MM	DIX-P1PL02338S
Ø38MM - 2.5MM - +6 MM	DIX-P1PL02638S
Ø38MM - 2.5MM - +9 MM	DIX-P1PL02938S
Ø38MM - 4.5MM - +0MM	DIX-P1PL04038S
Ø38MM - 4.5MM - +3MM	DIX-P1PL04338S
Ø38MM - 4.5MM - +6MM	DIX-P1PL04338S
Ø38MM - 4.5MM - +9MM	DIX-P1PL04938S
Ø42MM - 2.5MM - +0MM	DIX-P1PL02042S
Ø42MM - 2.5MM - +3MM	DIX-P1PL02342S
Ø42MM - 2.5MM - +6MM	DIX-P1PL02642S
Ø42MM - 2.5MM - +9MM	DIX-P1PL02942S
Ø42MM - 4.5MM - +0MM	DIX-P1PL04042S
Ø42MM - 4.5MM - +3MM	DIX-P1PL04342S
Ø42MM - 4.5MM - +6MM	DIX-P1PL04642S
Ø42MM - 4.5MM - +9MM	DIX-P1PL04942S

HUMERAL CUP TRIALS - HIGH MOBILITY



Ø38MM - 2.5MM - +0MM - High Mobility	DIX-P2PL02038S
Ø38MM - 2.5MM - +3MM - High Mobility	DIX-P2PL02338S
Ø38MM - 2.5MM - +6 MM - High Mobility	DIX-P2PL02638S
Ø38MM - 2.5MM - +9 MM - High Mobility	DIX-P2PL02938S
Ø38MM - 4.5MM - +0MM - High Mobility	DIX-P2PL04038S
Ø38MM - 4.5MM - +3MM - High Mobility	DIX-P2PL04338S
Ø38MM - 4.5MM - +6MM - High Mobility	DIX-P2PL04638S
Ø38MM - 4.5MM - +9MM - High Mobility	DIX-P2PL04938S
Ø42MM - 2.5MM - +0MM - High Mobility	DIX-P2PL02042S
Ø42MM - 2.5MM - +3MM - High Mobility	DIX-P2PL02342S
Ø42MM - 2.5MM - +6MM - High Mobility	DIX-P2PL02642S
Ø42MM - 2.5MM - +9MM - High Mobility	DIX-P2PL02942S
Ø42MM - 4.5MM - +0MM - High Mobility	DIX-P2PL04042S
Ø42MM - 4.5MM - +3MM - High Mobility	DIX-P2PL04342S
Ø42MM - 4.5MM - +6MM - High Mobility	DIX-P2PL04642S
Ø42MM - 4.5MM - +9MM - High Mobility	DIX-P2PL04942S

HUMERAL PROTECTOR



Ø36 MM	DIX-ROSS00036S
Ø41 MM	DIX-ROSS00041S
Ø46 MM	DIX-ROSS00046S
Ø52 MM	DIX-ROSS00052S

TOOLS

HUMERAL STEM TRIALS - SHORT



Ø7MM - SHORT	DIX-S0SS00107S
Ø9MM - SHORT	DIX-S0SS00109S
Ø11MM - SHORT	DIX-S0SS00111S
Ø13MM - SHORT	DIX-S0SS00113S
Ø15MM - SHORT	DIX-S0SS00115S
Ø17MM - SHORT	DIX-S0SS00117S

IMPACTOR INSERT



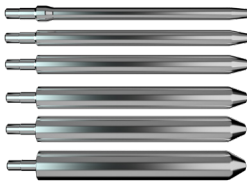
CUP IMPACTOR INSERT	DIX-TOPL00000S
GLENOID IMPACTOR INSERT	DIX-T1PL00000S
HUMERAL HEAD IMPACTOR INSERT	DIX-T2PL00000S

HUMERAL STEM TRIAL - MEDIUM



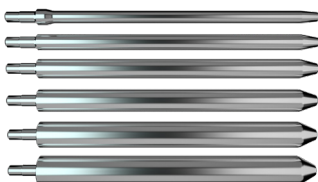
Ø7MM - MEDIUM	DIX-S0SS00207S
Ø9MM - MEDIUM	DIX-S0SS00209S
Ø11MM - MEDIUM	DIX-S0SS00211S
Ø13MM - MEDIUM	DIX-S0SS00213S
Ø15MM - MEDIUM	DIX-S0SS00215S
Ø17MM - MEDIUM	DIX-S0SS00217S

HUMERAL STEM TRIAL - LONG



Ø7MM - LONG	DIX-S0SS00307S
Ø9MM - LONG	DIX-S0SS00309S
Ø11MM - LONG	DIX-S0SS00311S
Ø13MM - LONG	DIX-S0SS00313S
Ø15MM - LONG	DIX-S0SS00315S
Ø17MM - LONG	DIX-S0SS00317S

HUMERAL STEM TRIAL - EXTRA LONG



Ø7MM - EXTRA LONG	DIX-S0SS00407S
Ø9MM - EXTRA LONG	DIX-S0SS00409S
Ø11MM - EXTRA LONG	DIX-S0SS00411S
Ø13MM - EXTRA LONG	DIX-S0SS00413S
Ø15MM - EXTRA LONG	DIX-S0SS00415S
Ø17MM - EXTRA LONG	DIX-S0SS00417S

TOOLS

HUMERAL COMPONENT INSERT DIX-T5SS000005



PIN SHORT DIX-W0SS04532S



PIN DIX-W0SS09032S



BROACH DIX-X0SS00009S



METAL BACK MASKS

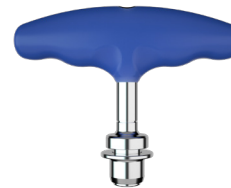


S	DIX-U2SS02430S
M	DIX-U2SS02734S
L	DIX-U2SS03038S
XL	DIX-U2SS03342S

SILICONE PALM HANDLE DIX-Z1SS000005



SILICONE T-HANDLE DIX-Z2SS000005



DYNAMOMETRIC T-HANDLE 3.5 Nm DIX-Z3SS000005



SILICONE RATCHETING HANDLE DIX-Z4SS000005





## INTRODUCTION

### PREOPERATIVE PLANNING

CT radiography is used in preoperative planning. If necessary, MRI can be used. Preoperative planning is of paramount importance. Based on the diagnostic data available, calculating the values of the main biomechanical parameters of the patient is advisable.

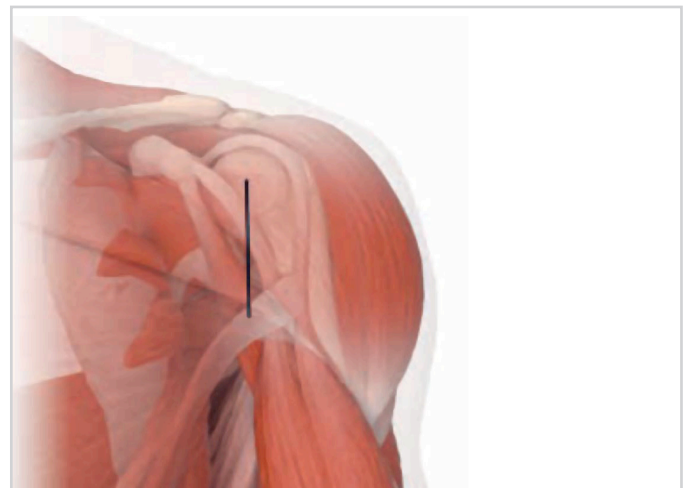
As an example, it is recommended to determine: (i) humeral diameter, (ii) humeral head diameter, (iii) humeral head retroversion, (iv) glenoid height and width, (v) glenoid neck length.



### ACCESS

We recommend two different routes to access the shoulder joint. Deltopectoral or Transdeltoid Access. As in any surgery, the access route chosen depends not only on the diagnosis and preoperative planning, but also on the surgeon's level of expertise.

The glenohumeral range of motion is evaluated with the patient under anaesthesia to confirm the preoperative observations and the degree of capsular release that must be performed in order to restore good postoperative ROM.



### PLACEMENT

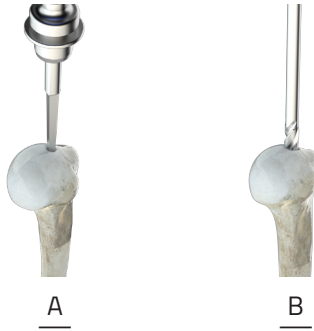
Shoulder arthroplasty is generally performed with the patient in a semi-seated "beach-chair" position; the surgeon must have full access to the joint in order to operate.

The arm should be free or placed on appropriate supports. The shoulder should protrude over the edge of the table to allow for comfortable and complete extension of the joint space.



## SURGICAL TECHNIQUE

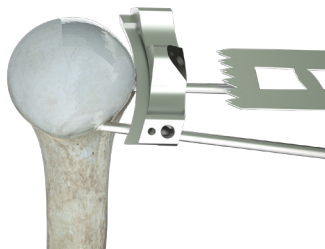
1 —



### Humerus Osteotomy

**A - SHORT STEM:** Open up the proximal end of the humerus by tapping it with the **awl**. Then remove the handle and assemble the **resection guide** with the alignment rod in place to determine the angle of retroversion.

**B - LONG STEM:** Open up the proximal end of the humerus by tapping it with the **awl**, then fit the **reamer** on the **T-handle** and proceed inside the canal with a rotational movement until the reamer touches the cortical wall and locks into place. Assemble the **resection guide** on the reamer with the alignment rod in place to determine the angle of retroversion.



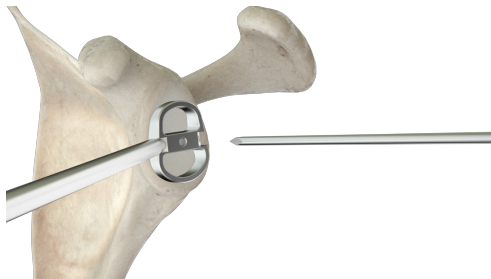
Lock the **mask** with the **pin**. Remove the intramedullary guide or reamer and perform the humeral head osteotomy using a 1.27mm-thick blade placed in the slot on the guide. Remove the pins. Throughout each of these steps, ensure that you constantly remain parallel to the resection plane shown on the guide to avoid angles other than those indicated on the guide.



After performing the osteotomy, add the appropriate protective cover.

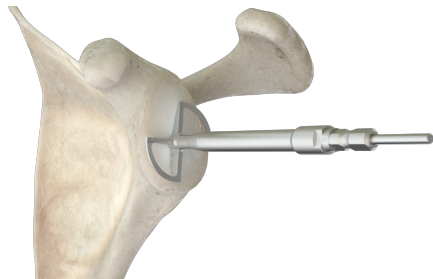
SURGICAL TECHNIQUE

2 —



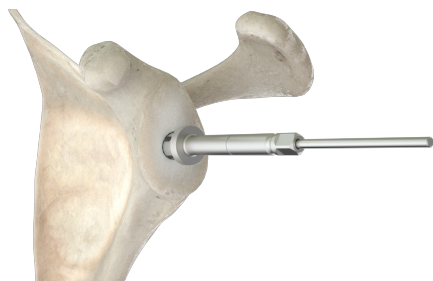
Glenoid Preparation

After fully exposing the glenoid, prepare the metal back slot using the appropriate size phantom and a 3.2mm-diameter guide wire. The guide wire must be oriented perpendicular to the bone surface.

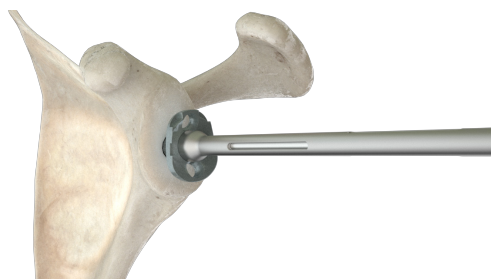


Once the guide wire has been inserted, connect the glenoid reamer to the motor and then proceed with reaming the bone surface. Ream carefully to avoid any fractures on the glenoid.

Reaming serves only to remove cartilaginous tissue and expose subchondral bone; it is therefore necessary to avoid excessive removal of bone tissue.



Remove the reamer, leaving the guide wire in place and drill using the core drill. Drill to the base of the bur.



Take the Metal Back component of the selected size out of its sterile package and assemble it on the glenoid Metal Back impactor. Push the central pin of the prosthesis into the hole you previously made by tapping lightly with the positioning handle.

The axis of the prosthesis must be perpendicular to the anterior surface of the glenoid.

SURGICAL TECHNIQUE



Once the glenoid is in place, drill the anchor screw holes with the 3.2mm drill bit inserted into the drill sleeve.



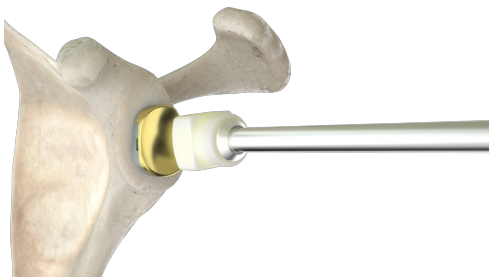
It is advisable to orient the upper screw towards the base of the coracoid, while the lower screw should be oriented parallel to the central taproot. After making the first hole, insert the screw using the screwdriver but do not tighten it fully until the following hole is prepared and the relative screw has been inserted. The screws must be tightened simultaneously for an ideal coupling between the metal glenoid and the previously prepared bone surface.

3. Anatomical Configuration —



Glenoid Components

Remove the glenoid insert from the sterile package. It will have the same dimensions as the glenoid. After carefully cleaning any traces of adipose tissue and soft tissue from the internal walls and edges of the Metal Back shell, put the insert in place and tap with the dedicated beater.



**Note:** insertion is irreversible. If the insert has just been inserted and needs to be removed, open another package containing an insert of the same size and put it in place after removing the previously inserted insert.

SURGICAL TECHNIQUE

4. Anatomical Configuration —

Humeral Components

HEAD/GLENOID	S	M	L	XL
36	OK	NO	NO	NO
39	OK	NO	NO	NO
41	NO	OK	NO	NO
44	NO	OK	NO	NO
46	NO	NO	OK	NO
48	NO	NO	OK	NO
52	NO	NO	NO	OK

**Note:** 36 heads are available only in metal

The surgeon must always evaluate the best possible surgical choice based on the patient’s medical condition. In terms of geometric compatibility, the table above is valid for all DIXI system heads and glenoids.

Once implantation of the glenoid component has been completed, the humerus will be left exposed. Remove the protective cover and start preparing the humerus.

**SHORT STEM:** Connect the first trial metaphysis to the stem (7) and the introducer and proceed by increasing the sizes of the metaphysis and stem until the desired metaphysis filling has been achieved. Tap the trial prosthesis into the canal until the metaphyseal plate comes into contact with the osteotomy surface.

**LONG STEM:** Connect the first trial metaphysis to the introducer using the stem previously established with the last reamer and proceed by increasing the size of the metaphysis until the desired metaphyseal filling has been achieved. Tap the trial prosthesis into the canal until the metaphyseal plate comes into contact with the osteotomy surface.

Place the trial humeral head by rotating the component until ideal coverage has been identified.

Reduce the shoulder and check the coupling between the head and the glenoid. After testing the correct position of the implant, make a mark on the bone with the electric scalpel at the slot on the trial head.



SURGICAL TECHNIQUE

5. Anatomical Configuration —

Placement of the final humeral implant

Remove the trial component.

Assemble the chosen metaphysis and stem on the operating table. Tap the final prosthesis into the canal until the metaphyseal plate comes into contact with the osteotomy surface.



Check that the surfaces in contact with each other are thoroughly clean and that neither the head nor cone are intruding on the bone tissue. Apply the selected humeral head to the metaphysis so that the prosthesis is aligned with the previously made reference mark. Lastly, secure the fit by using the impactor for the humeral head to tap lightly.



After reducing the implant in place, perform the usual joint movements. When slight longitudinal stress is exerted, there should be no dissociation between the humeral head and the glenoid insert.



**SURGICAL TECHNIQUE**

6. Reverse Configuration —



**Removal of Anatomical Prosthesis Components**

It may be necessary to revise an anatomical construct into a reverse one following a massive and irreparable secondary tear of the rotator cuff. The Dixi Shoulder System was designed to facilitate anatomical-to-reverse conversion without the need to remove the metaglene or a properly positioned stem.

After removing the glenoid insert using dedicated forceps, remove the humeral head by placing the distractor tips between the resection and the base of the humeral head, then tap to release the Morse taper.

7. Reverse Configuration —



**Glenoid Components**

Place the trial glenosphere inside the Metal Back and then tighten it with the screwdriver.

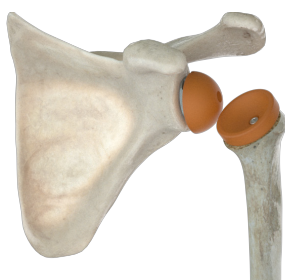
8. Reverse Configuration —



**Humeral Components**

Next, place the humeral cup inside the metaphyseal cone. Then tighten it with the screwdriver.

9. Reverse Configuration —



**Trial Reduction**

Reduce the shoulder and check the alignment between the glenosphere and the trial humeral cup for deltoid tension, stability, range of motion and impingement. Make a mark on the bone with the electric scalpel at the slit on the trial cup.

SURGICAL TECHNIQUE

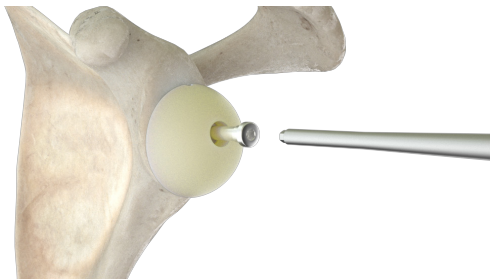
10. Reverse Configuration —

Implant Placement

Once the trial implants have been removed, open the glenosphere and humeral cup determined in the previous step.



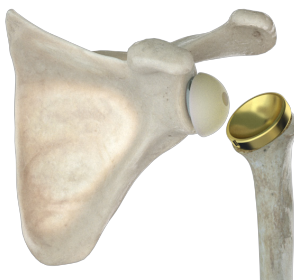
Insert the glenosphere into the metal back with the appropriate tool. Then use the impactor to finish and insert the locking screw.



Check that the surfaces in contact with each other are thoroughly clean and that neither the cup nor cone are intruding on the bone tissue. Lastly, secure the fit by using the impactor for the humeral cup to tap lightly. Apply the selected humeral cup to the metaphysis so that the prosthesis is aligned with the previously made reference mark.



After reducing the implant in place, perform the usual joint movements. When slight longitudinal stress is exerted, there should be no dissociation between the humeral cup and the glenosphere insert.



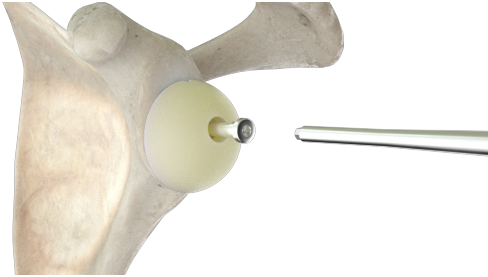
**Note 2:** In all system configurations that so permit, where necessary, the use of only one spacer is allowed.

**Note 3:** In the event of conversion, if a spacer is present, remove it and, if deemed appropriate, replace it with a new spacer.



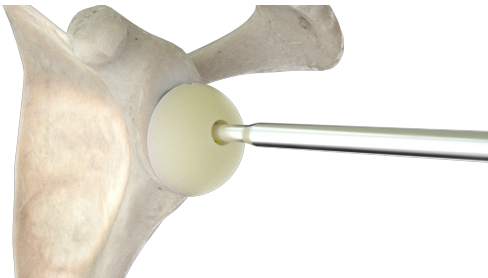
SURGICAL TECHNIQUE

11. CTA Configuration —

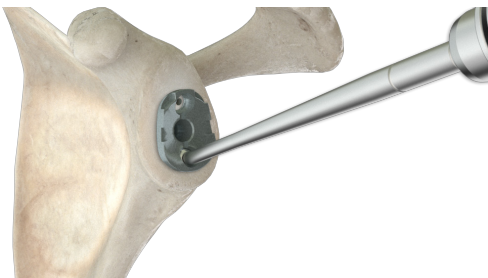


Reverse Configuration Removal

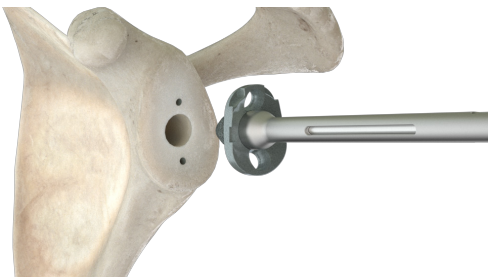
In order to proceed with removing the glenosphere, first remove the locking screw using the screwdriver.



Then use the extractor to screw the glenosphere until it has been removed.



Remove the two screws with the screwdriver.



Screw the holder of the metaglene and, if necessary, use the hammer.



Remove the humeral cup by placing the distractor tips between the resection and the base of the humeral head, then tap to release the Morse taper.

SURGICAL TECHNIQUE

12. CTA Configuration —



Osteochondral Graft

If deemed appropriate, an osteochondral cylinder may be grafted.

13. CTA Configuration —



CTA Humeral Components

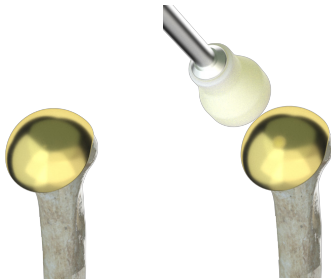
Place the trial CTA head inside the metaphyseal cone and then tighten it with the screwdriver.



Reduce the shoulder and, lastly, check the size of the humeral head using internal and external rotation movements and assess the ratio with respect to the overall space occupied by the component.

SURGICAL TECHNIQUE

14. CTA Configuration —



Implant Closure

Once the trial implants have been removed using the extractor, select the CTA head of the size and thickness determined in the trial stage.

Check that the joint surfaces have been thoroughly cleaned and that the head is not colliding with the bone tissue, which may compromise the stability of the coupling. Reinforce the joint by tapping it with the humeral head impactor.



After reducing the implant in place, perform the usual joint movements.

**PRODUCT CODES**

HUMERAL STEM



TITANIUM ALLOY (Ti 6-Al 4-V)	Ø7MM - SHORT	DIX-A00T500107
	Ø9MM - SHORT	DIX-A00T500107
	Ø11MM - SHORT	DIX-A00T500111
	Ø13MM - SHORT	DIX-A00T500113
	Ø15MM - SHORT	DIX-A00T500115
	Ø17MM - SHORT	DIX-A00T500117
	Ø19MM - SHORT	DIX-A00T500119
	Ø7MM - MEDIUM	DIX-A00T500207
	Ø9MM - MEDIUM	DIX-A00T500209
	Ø11MM - MEDIUM	DIX-A00T500211
	Ø13MM - MEDIUM	DIX-A00T500213
	Ø15MM - MEDIUM	DIX-A00T500215
	Ø17MM - MEDIUM	DIX-A00T500217
	Ø19MM - MEDIUM	DIX-A00T500219
	Ø7MM - LONG	DIX-A00T500307
	Ø9MM - LONG	DIX-A00T500309
	Ø11MM - LONG	DIX-A00T500311
	Ø13MM - LONG	DIX-A00T500313
	Ø15MM - LONG	DIX-A00T500315
	Ø17MM - LONG	DIX-A00T500317
	Ø19MM - LONG	DIX-A00T500319
	Ø7MM - XL	DIX-A00T500407
	Ø9MM - XL	DIX-A00T500409
	Ø11MM - XL	DIX-A00T500409
	Ø13MM - XL	DIX-A00T500413
	Ø15MM - XL	DIX-A00T500415
	Ø17MM - XL	DIX-A00T500417
	Ø19MM - XL	DIX-A00T500419

**NOTE 1:** ALL HUMERAL STEMS THAT ARE NOT "TI PORE COATED" ARE CEMENTED

**NOTE 2:** L AND XL VERSIONS ARE DESIGNATED FOR REVISION CONFIGURATION

PRODUCT CODES

HUMERAL STEM



TITANIUM ALLOY (Ti 6-Al 4-V)  Ti PORE COATED	Ø7MM - SHORT	DIX-A01T500107
	Ø9MM - SHORT	DIX-A01T500109
	Ø11MM - SHORT	DIX-A01T500111
	Ø13MM - SHORT	DIX-A01T500113
	Ø15MM - SHORT	DIX-A01T500115
	Ø17MM - SHORT	DIX-A01T500117
	Ø19MM - SHORT	DIX-A01T500119
	Ø7MM - MEDIUM	DIX-A01T500207
	Ø9MM - MEDIUM	DIX-A01T500209
	Ø11MM - MEDIUM	DIX-A01T500211
	Ø13MM - MEDIUM	DIX-A01T500213
	Ø15MM - MEDIUM	DIX-A01T500215
	Ø17MM - MEDIUM	DIX-A01T500217
	Ø19MM - MEDIUM	DIX-A01T500219
	Ø7MM - LONG	DIX-A01T500307
	Ø9MM - LONG	DIX-A01T500309
	Ø11MM - LONG	DIX-A01T500311
	Ø13MM - LONG	DIX-A01T500313
	Ø15MM - LONG	DIX-A01T500315
	Ø17MM - LONG	DIX-A01T500317
	Ø19MM - LONG	DIX-A01T500319
	Ø7MM - XL	DIX-A01T500407
	Ø9MM - XL	DIX-A01T500409
	Ø11MM - XL	DIX-A01T500409
	Ø13MM - XL	DIX-A01T500413
	Ø15MM - XL	DIX-A01T500415
	Ø17MM - XL	DIX-A01T500417
	Ø19MM - XL	DIX-A01T500419

**NOTE:** LL AND XL VERSIONS ARE DESIGNATED FOR REVISION CONFIGURATION

HUMERAL METAPHYSIS



TITANIUM ALLOY (Ti 6-Al 4-V)  Ti PORE COATED	SIZE 9 - ARTHROSIS	DIX-B11T500009
	SIZE 11 - ARTHROSIS	DIX-B11T500011
	SIZE 13 - ARTHROSIS	DIX-B11T500013
	SIZE 15 - ARTHROSIS	DIX-B11T500015
	SIZE 17 - ARTHROSIS	DIX-B11T500017
	SIZE 19 - ARTHROSIS	DIX-B11T500019
	SIZE 9 - FRACTURE	DIX-B21T500009
	SIZE 11 - FRACTURE	DIX-B21T500011
	SIZE 13 - FRACTURE	DIX-B21T500013
	SIZE 15 - FRACTURE	DIX-B21T500015
	SIZE 17 - FRACTURE	DIX-B21T500017
	SIZE 19 - FRACTURE	DIX-B21T500019
	SIZE 9 - REVERSE	DIX-B31T500009
	SIZE 11 - REVERSE	DIX-B31T500011
	SIZE 13 - REVERSE	DIX-B31T500013
	SIZE 15 - REVERSE	DIX-B31T500015
	SIZE 17 - REVERSE	DIX-B31T500017
	SIZE 19 - REVERSE	DIX-B31T500019

**NOTE:** REVERSE HUMERAL METAPHYSES ARE INDICATED FOR BOTH ELECTIVE AND TRAUMA SURGERIES.

PRODUCT CODES

ECCENTRIC HUMERAL HEAD



CoCr ALLOY	Ø36MM - H13MM - 2MM	DIX-C10CC21336
	Ø39MM - H14MM - 2MM	DIX-C10CC21439
	Ø41MM - H15MM - 2MM	DIX-C10CC21541
	Ø44MM - H16MM - 2MM	DIX-C10CC21644
	Ø46MM - H17MM - 2MM	DIX-C10CC21746
	Ø48MM - H18MM - 2MM	DIX-C10CC21848
	Ø52MM - H19MM - 2MM	DIX-C10CC21952
	Ø36MM - H13MM - 3MM	DIX-C10CC31336
	Ø39MM - H14MM - 3MM	DIX-C10CC31439
	Ø41MM - H15MM - 4MM	DIX-C10CC41541
	Ø44MM - H16MM - 4MM	DIX-C10CC41644
	Ø46MM - H17MM - 4MM	DIX-C10CC41746
	Ø48MM - H18MM - 5MM	DIX-C10CC51848
	Ø52MM - H19MM - 5MM	DIX-C10CC51952

POLYETHYLENE ECCENTRIC HUMERAL HEAD



VITAMIN E-BLENDED UHMWPE	Ø39MM - H14MM - 2MM	DIX-C10PE21439
	Ø41MM - H15MM - 2MM	DIX-C10PE21541
	Ø44MM - H16MM - 2MM	DIX-C10PE21644
	Ø46MM - H17MM - 2MM	DIX-C10PE21746
	Ø48MM - H18MM - 2MM	DIX-C10PE21848
	Ø52MM - H19MM - 2MM	DIX-C10PE21952
	Ø36MM - H13MM - 3MM	DIX-C10PE31336
	Ø39MM - H14MM - 3MM	DIX-C10PE31439
	Ø41MM - H15MM - 4MM	DIX-C10PE41541
	Ø44MM - H16MM - 4MM	DIX-C10PE41644
	Ø46MM - H17MM - 4MM	DIX-C10PE41746
	Ø48MM - H18MM - 5MM	DIX-C10PE51848
	Ø52MM - H19MM - 5MM	DIX-C10PE51848

ECCENTRIC HUMERAL HEAD TiNbN COATED



CoCr ALLOY TiNbN COATED	Ø36MM - H13MM - 2MM	DIX-C12CC21336
	Ø39MM - H14MM - 2MM	DIX-C12CC21439
	Ø41MM - H15MM - 2MM	DIX-C12CC21541
	Ø44MM - H16MM - 2MM	DIX-C12CC21644
	Ø46MM - H17MM - 2MM	DIX-C12CC21746
	Ø48MM - H18MM - 2MM	DIX-C12CC21848
	Ø52MM - H19MM - 2MM	DIX-C12CC21952
	Ø36MM - H13MM - 3MM	DIX-C12CC31336
	Ø39MM - H14MM - 3MM	DIX-C12CC31439
	Ø41MM - H15MM - 4MM	DIX-C12CC41541
	Ø44MM - H16MM - 4MM	DIX-C12CC41644
	Ø46MM - H17MM - 4MM	DIX-C12CC41746
	Ø48MM - H18MM - 5MM	DIX-C12CC51848
	Ø52MM - H19MM - 5MM	DIX-C12CC51952

PRODUCT CODES

KEEL GLENOID



VITAMIN E-BLENDED UHMWPE	S R30	DIX-D10PE00130
	S R35	DIX-D10PE00135
	S R40	DIX-D10PE00140
	M R30	DIX-D10PE00230
	M R35	DIX-D10PE00235
	M R40	DIX-D10PE00240
	L R40	DIX-D10PE00340
	L R50	DIX-D10PE00350
	L R60	DIX-D10PE00360
	XL R40	DIX-D10PE00440
	XL R50	DIX-D10PE00450
	XL R60	DIX-D10PE00460

**NOTE:** ALL KEEL GLENOIDS ARE CEMENTED

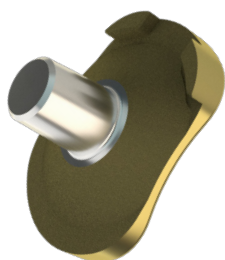
PEG GLENOID



VITAMIN E-BLENDED UHMWPE	S R30	DIX-D20PE00130
	S R35	DIX-D20PE00135
	S R40	DIX-D20PE00140
	M R30	DIX-D20PE00230
	M R35	DIX-D20PE00235
	M R40	DIX-D20PE00240
	L R40	DIX-D20PE00340
	L R50	DIX-D20PE00350
	L R60	DIX-D20PE00360
	XL R40	DIX-D20PE00440
	XL R50	DIX-D20PE00450
	XL R60	DIX-D20PE00460

**NOTE:** ALL PEG GLENOIDS ARE CEMENTED

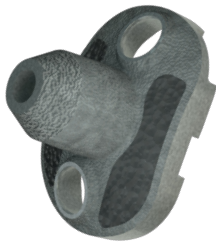
CoCr GLENOID SHELL TiNbN COATED



CoCr ALLOY TiNbN COATED	S	DIX-D32CC00100
	M	DIX-D32CC00200
	L	DIX-D32CC00300
	XL	DIX-D32CC00400

PRODUCT CODES

CONVERTIBLE METAL BACK



TITANIUM ALLOY (Ti 6-Al 4-V)	S - L13	DIX-E10T500113
	S - L20	DIX-E10T500120
	S - L25	DIX-E10T500125
	M - L13	DIX-E10T500213
	M - L20	DIX-E10T500220
	M - L25	DIX-E10T500225
	L - L13	DIX-E10T500313
	L - L20	DIX-E10T500320
	L - L25	DIX-E10T500325
	XL- L13	DIX-E10T500413
	XL - L20	DIX-E10T500420
	XL - L25	DIX-E10T500425

**NOTE:** L20 AND L25 VERSIONS ARE DESIGNATED FOR REVISION CONFIGURATION

HUMERAL CUP



CoCr ALLOY	Ø38MM - 2.5MM - +0MM	DIX-F10CC02038
	Ø38MM - 2.5MM - +3MM	DIX-F10CC02338
	Ø38MM - 2.5MM - +6 MM	DIX-F10CC02638
	Ø38MM - 2.5MM - +9 MM	DIX-F10CC02938
	Ø38MM - 4.5MM - +0MM	DIX-F10CC04038
	Ø38MM - 4.5MM - +3MM	DIX-F10CC04338
	Ø38MM - 4.5MM - +6MM	DIX-F10CC04638
	Ø38MM - 4.5MM - +9MM	DIX-F10CC04938
	Ø42MM - 2.5MM - +0MM	DIX-F10CC02042
	Ø42MM - 2.5MM - +3MM	DIX-F10CC02342
	Ø42MM - 2.5MM - +6 MM	DIX-F10CC02642
	Ø42MM - 2.5MM - +9 MM	DIX-F10CC02942
	Ø42MM - 4.5MM - +0MM	DIX-F10CC04042
	Ø42MM - 4.5MM - +3MM	DIX-F10CC04342
	Ø42MM - 4.5MM - +6MM	DIX-F10CC04642
	Ø42MM - 4.5MM - +9MM	DIX-F10CC04942



PRODUCT CODES

HUMERAL CUP - HIGH MOBILITY



CoCr ALLOY	Ø38MM - 2.5MM - +0MM	DIX-F20CC02038
	Ø38MM - 2.5MM - +3MM	DIX-F20CC02338
	Ø38MM - 2.5MM - +6 MM	DIX-F20CC02638
	Ø38MM - 2.5MM - +9 MM	DIX-F20CC02938
	Ø38MM - 4.5MM - +0MM	DIX-F20CC04038
	Ø38MM - 4.5MM - +3MM	DIX-F20CC04338
	Ø38MM - 4.5MM - +6MM	DIX-F20CC04638
	Ø38MM - 4.5MM - +9MM	DIX-F20CC04938
	Ø42MM - 2.5MM - +0MM	DIX-F20CC02042
	Ø42MM - 2.5MM - +3MM	DIX-F20CC02342
	Ø42MM - 2.5MM - +6 MM	DIX-F20CC02642
	Ø42MM - 2.5MM - +9 MM	DIX-F20CC02942
	Ø42MM - 4.5MM - +0MM	DIX-F20CC04042
	Ø42MM - 4.5MM - +3MM	DIX-F20CC04342
	Ø42MM - 4.5MM - +6MM	DIX-F20CC04642
	Ø42MM - 4.5MM - +9MM	DIX-F20CC04942
	Ø38MM - 2.5MM - Low profile	DIX-F00CC02038
	Ø38MM - 2.5MM - Low profile	DIX-F00CC04038
	Ø38MM - 4.5MM - Low profile	DIX-F00CC02042
	Ø38MM - 4.5MM - Low profile	DIX-F00CC04042

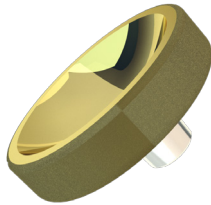
HUMERAL CUP - TiNbN COATED



CoCr ALLOY TiNbN COATED	Ø38MM - 2.5MM - +0MM	DIX-F12CC02038
	Ø38MM - 2.5MM - +3MM	DIX-F12CC02338
	Ø38MM - 2.5MM - +6 MM	DIX-F12CC02638
	Ø38MM - 2.5MM - +9 MM	DIX-F12CC02938
	Ø38MM - 4.5MM - +0MM	DIX-F12CC04038
	Ø38MM - 4.5MM - +3MM	DIX-F12CC04338
	Ø38MM - 4.5MM - +6MM	DIX-F12CC04638
	Ø38MM - 4.5MM - +9MM	DIX-F12CC04938
	Ø42MM - 2.5MM - +0MM	DIX-F12CC02042
	Ø42MM - 2.5MM - +3MM	DIX-F12CC02342
	Ø42MM - 2.5MM - +6 MM	DIX-F12CC02642
	Ø42MM - 2.5MM - +9 MM	DIX-F12CC02942
	Ø42MM - 4.5MM - +0MM	DIX-F12CC04042
	Ø42MM - 4.5MM - +3MM	DIX-F12CC04342
	Ø42MM - 4.5MM - +6MM	DIX-F12CC04642
	Ø42MM - 4.5MM - +9MM	DIX-F12CC04942

PRODUCT CODES

HUMERAL CUP HIGH MOBILITY - TiNbN COATED



CoCr ALLOY TiNbN COATED	Ø38MM - 2.5MM - +0MM	DIX-F22CC02038
	Ø38MM - 2.5MM - +3MM	DIX-F22CC02338
	Ø38MM - 2.5MM - +6 MM	DIX-F22CC02638
	Ø38MM - 2.5MM - +9 MM	DIX-F22CC02938
	Ø38MM - 4.5MM - +0MM	DIX-F22CC04038
	Ø38MM - 4.5MM - +3MM	DIX-F22CC04338
	Ø38MM - 4.5MM - +6MM	DIX-F22CC04638
	Ø38MM - 4.5MM - +9MM	DIX-F22CC04938
	Ø42MM - 2.5MM - +0MM	DIX-F22CC02042
	Ø42MM - 2.5MM - +3MM	DIX-F22CC02342
	Ø42MM - 2.5MM - +6 MM	DIX-F22CC02642
	Ø42MM - 2.5MM - +9 MM	DIX-F22CC02942
	Ø42MM - 4.5MM - +0MM	DIX-F22CC04042
	Ø42MM - 4.5MM - +3MM	DIX-F22CC04342
	Ø42MM - 4.5MM - +6MM	DIX-F22CC04642
	Ø42MM - 4.5MM - +9MM	DIX-F22CC04942
	Ø38MM - 2.5MM - Low profile	DIX-F02CC02038
	Ø38MM - 2.5MM - Low profile	DIX-F02CC04038
	Ø42MM - 4.5MM - Low profile	DIX-F02CC02042
	Ø42MM - 4.5MM - Low profile	DIX-F02CC04042

GLENOSPHERE



VITAMIN E-BLENDED UHMWPE	Ø38MM	DIX-G00PE00038
	Ø42MM	DIX-G00PE00042
	Ø38MM LATERALIZED +2MM	DIX-G00PE00238
	Ø42MM LATERALIZED +2MM	DIX-G00PE00242
	Ø38MM LATERALIZED +4MM	DIX-G00PE00438
	Ø42MM LATERALIZED +4MM	DIX-G00PE00442

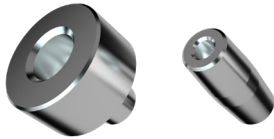
ECCENTRIC GLENOSPHERE



VITAMIN E-BLENDED UHMWPE	Ø38MM	DIX-G00PE03038
	Ø42MM	DIX-G00PE03042
	Ø38MM LATERALIZED +2MM	DIX-G00PE03238
	Ø42MM LATERALIZED +2MM	DIX-G00PE03242
	Ø38MM LATERALIZED +4MM	DIX-G00PE03438
	Ø42MM LATERALIZED +4MM	DIX-G00PE03442

PRODUCT CODES

CONICAL ADAPTER



TITANIUM ALLOY (Ti 6-Al 4-V)	MM - OFFSET +0MM	DIX-G00PE03038
	MM - OFFSET +2MM	DIX-G00PE03042
	MM - OFFSET +4MM	DIX-G00PE03238
	MF	DIX-G00PE03242

CTA HEAD



CoCr ALLOY	D36 - H13	DIX-L00CC31336
	D41 - H15	DIX-L00CC31541
	D46 - H17	DIX-L00CC31541
	D52 - H19	DIX-L00CC31952

CTA HEAD - TiNbn COATED



CoCr ALLOY TiNbn COATED	D36 - H13	DIX-L02CC31336
	D41 - H15	DIX-L02CC31541
	D46 - H17	DIX-L02CC31746
	D52 - H19	DIX-L02CC31952

PRODUCT CODES

CANCELLOUS SCREW



TITANIUM ALLOY (Ti 6-Al 4-V)	L20	DIX-J00T500020
	L25	DIX-J00T500025
	L30	DIX-J00T500030
	L35	DIX-J00T500035
	L40	DIX-J00T500040
	L45	DIX-J00T500045

CORTICAL SCREW



TITANIUM ALLOY (Ti 6-Al 4-V)	L20	DIX-J10T500020
	L25	DIX-J10T500025
	L30	DIX-J10T500030
	L35	DIX-J10T500035
	L40	DIX-J10T500040
	L45	DIX-J10T500045



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