
CLOVER
dixi

Trilobed profile for maximum stability
and high bone sparing

Immediate and effective on-lay convertibility
for each component

No metal allergy TiNbN, E-Poly, 3D-Printed Titanium
for maximum efficiency, durability and
bone integration

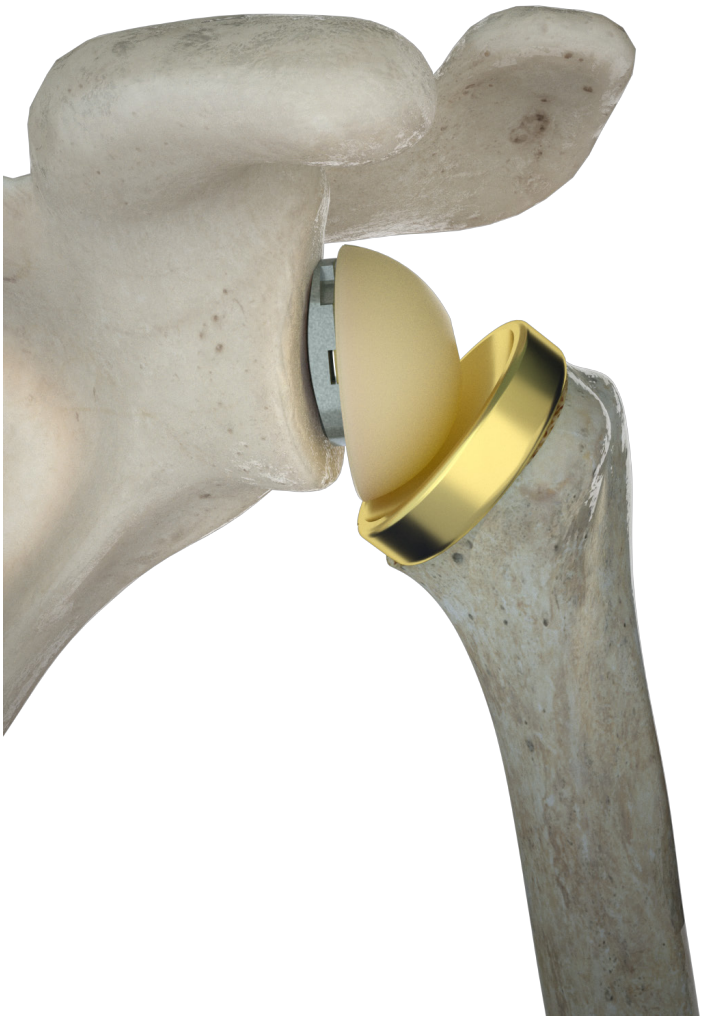
Great stability and high rom.
Increased deltoid lever arm and control of humeral and
glenoid lateralization

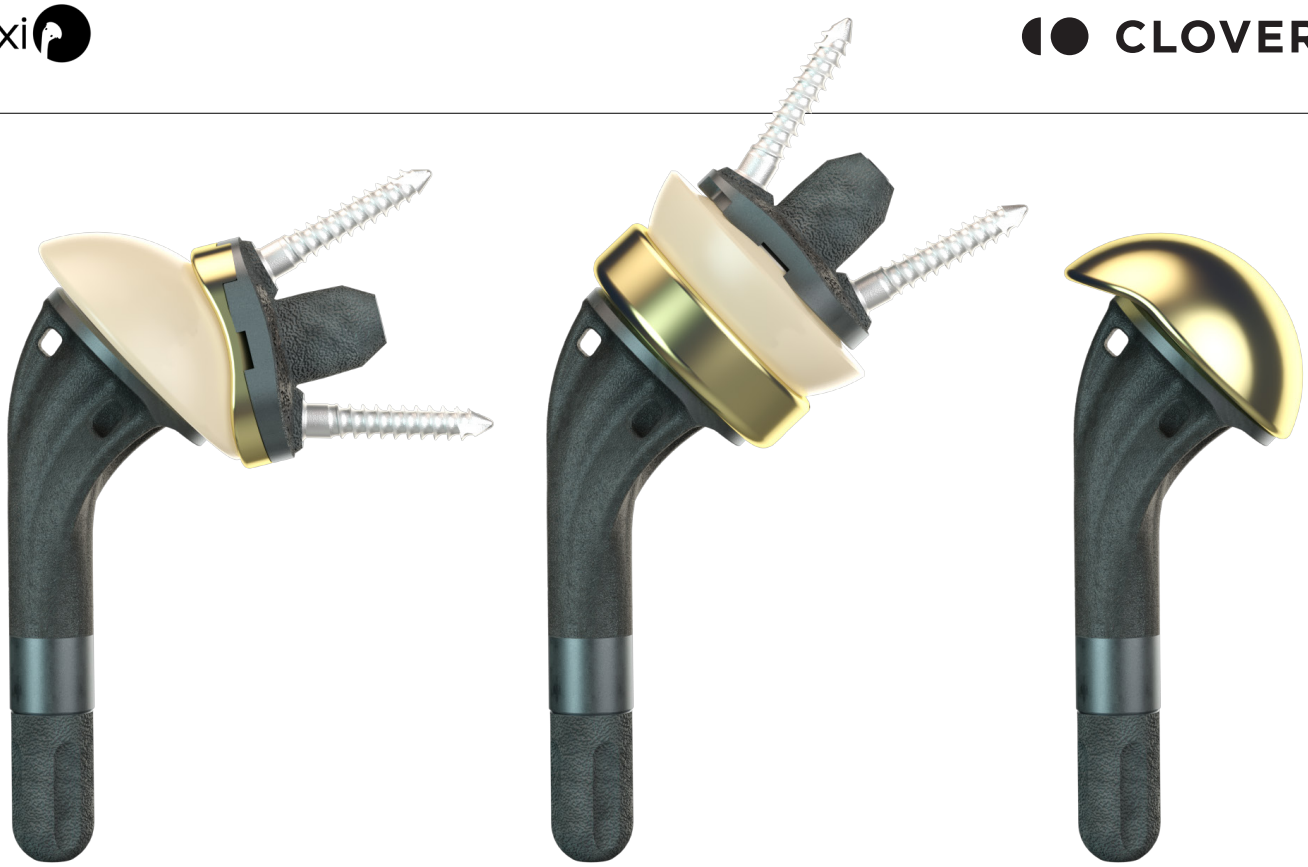
Prosthetic system of shoulder

Dixi features a trilobed metaphyseal profile that provides excellent mechanical stability and significantly reduces the amount of bone tissue to be removed.

Dixi is always easily convertible without removing the glenoid or metaphyseal component and allows complete control of lateralization parameters ensuring maximum stability and ROM.

The prosthesis is made of Titanium and coated with TiN avoiding any possible allergy to Nickel and limiting material wear to a minimum. Moreover, thanks to an efficient 3D planning service, every detail of the surgery can be planned.

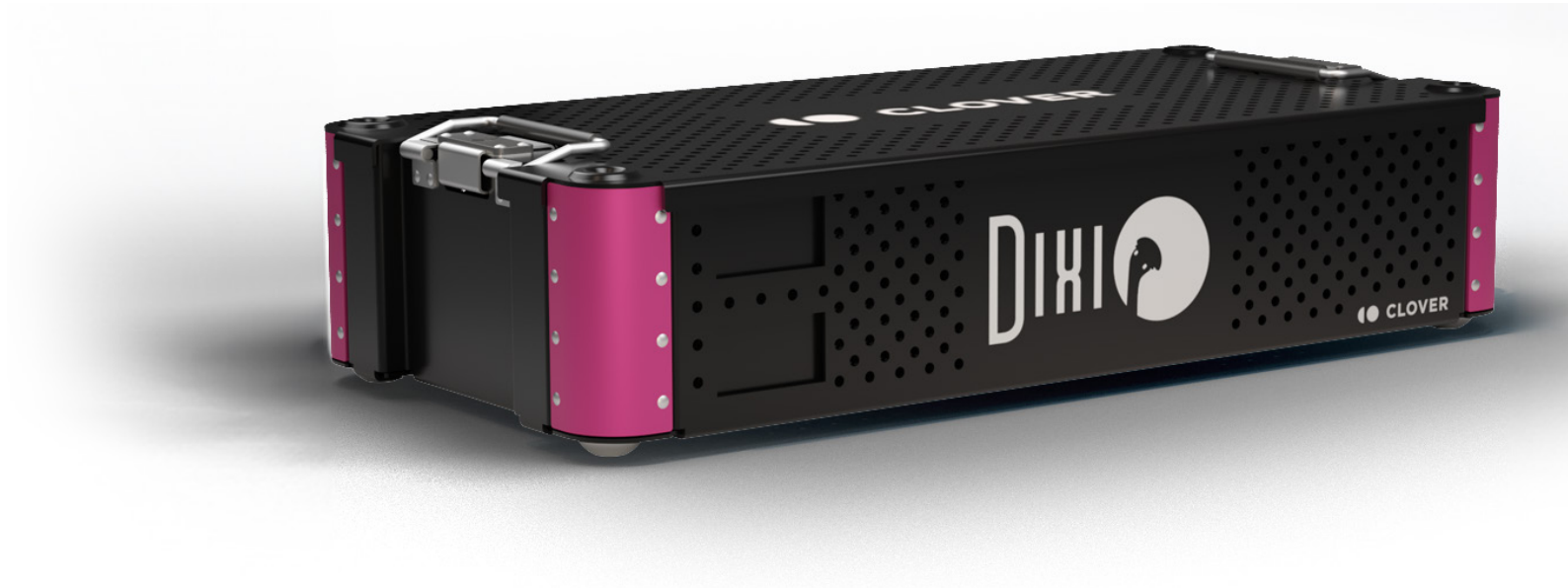




Anatomic Reverse Revision

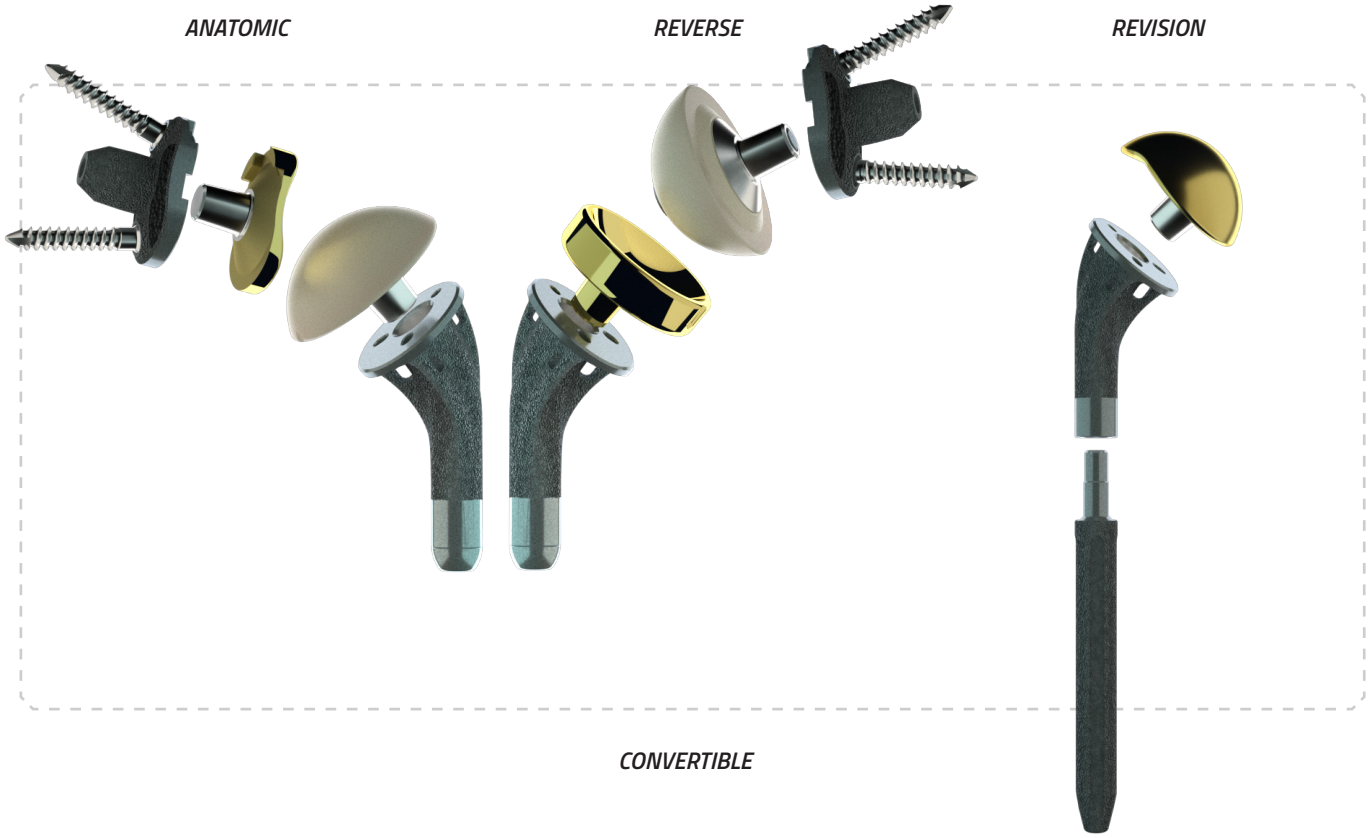
Instrumentary

Clover has invested heavily in instrument design and care with the goal of creating ergonomic, functional, and compact instrumentation.
Designed for the surgeon and his team.



#LESSISMORE

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

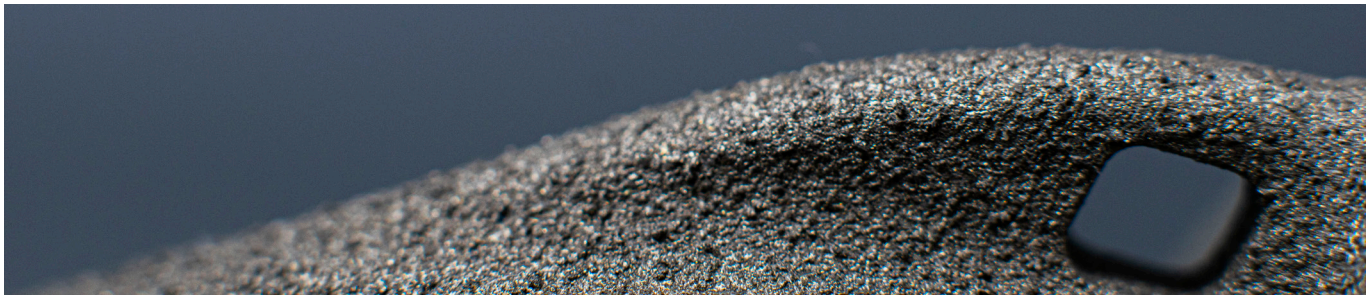
immediate and effective for each component

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

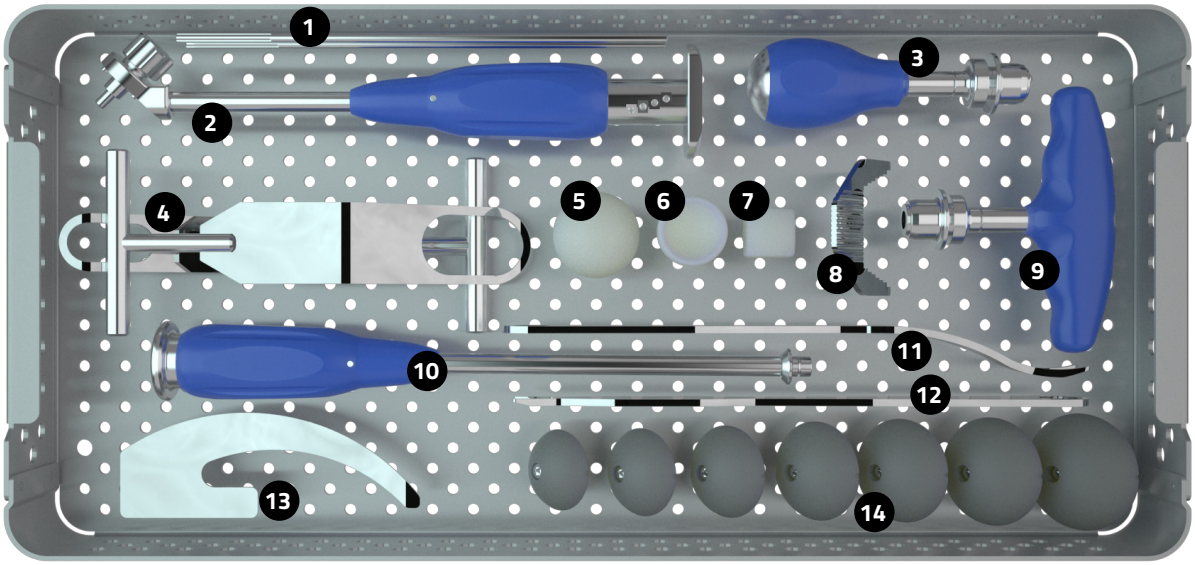


CASE LAYOUT | ERGONOMIC, FUNCTIONAL AND COMPACT.

Tools - Anatomical Version

Tools - Reverse/Revision Version

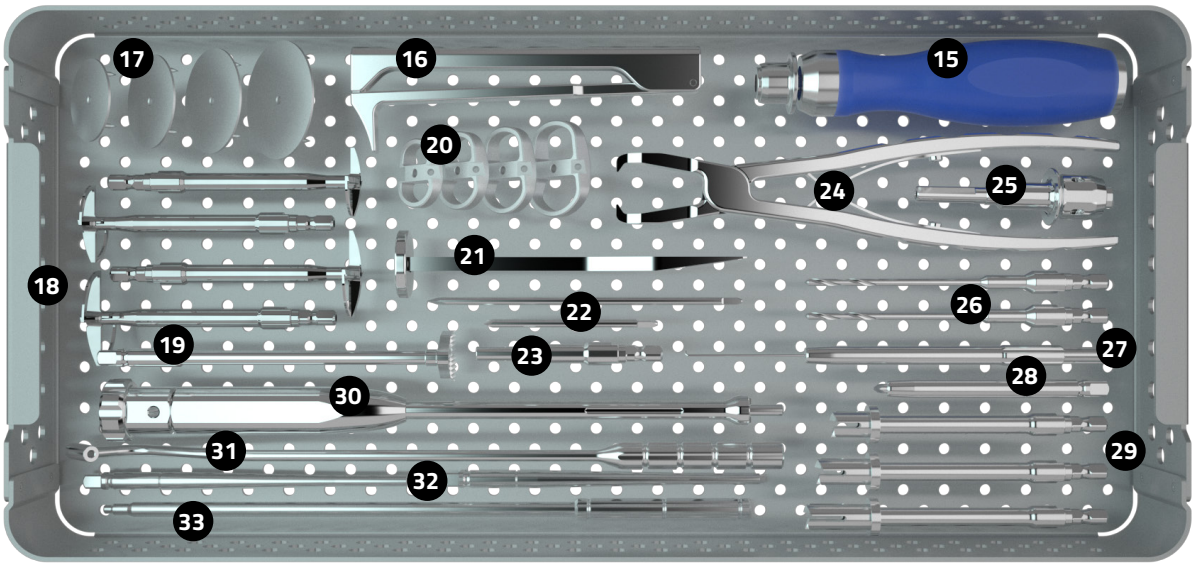
CASE 1 | TRAY 1



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

CASE LAYOUT

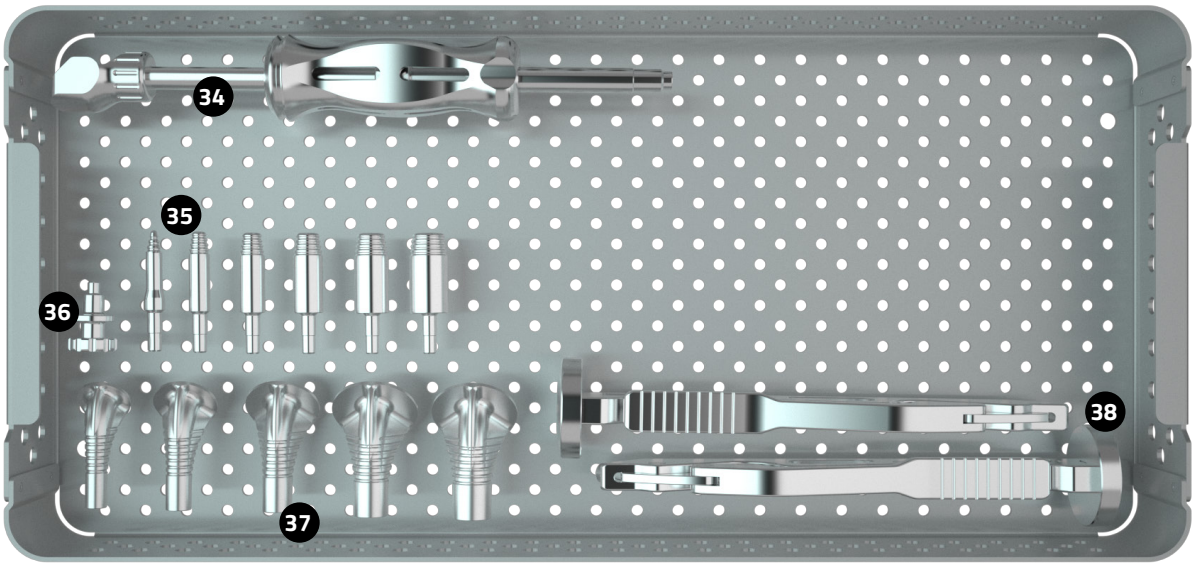
CASE 1 | TRAY 2



15	SILICONE RATCHETING HANDLE	DIX-Z4SS00000S
16	PIN EXTRACTOR	DIX-K2SS00000S
17	HUMERAL PROTECTOR	DIX-R0SS000XXS
18	GLENOID REAMER - METAL BACK	DIX-A2SS040XXS
19	ASYMMETRICK REAMER	DIX-A0SS00025S
20	METAL BACK MASK	DIX-U2SS0XXXXS
21	HEAD REMOVER	DIX-D0SS00000S
22	PIN	DIX-W0SS0XXXXS
23	PIN HOLDER	DIX-L6SS00000S
24	SHELL REMOVER	DIX-D3SS00000S
25	EXTENSION	DIX-J0SS00000S
26	MARKED DRILL	DIX-C0SS13003S
27	MODULAR DRILL	DIX-C0SS03003S
28	CANCELLOUS SCREW AWL	DIX-K6SS00002S
29	METAL BACK PEG DRILL	DIX-C1SS0XXXXS
30	METAL BACK HOLDER	DIX-L3SS00000S
31	DRILL GUIDE	DIX-G0SS00003S
32	SCREWDRIVER HEX 3.5MM	DIX-O0SS00135S
33	DRILL MASK HOLDER	DIX-L4SS00000S

CASE LAYOUT

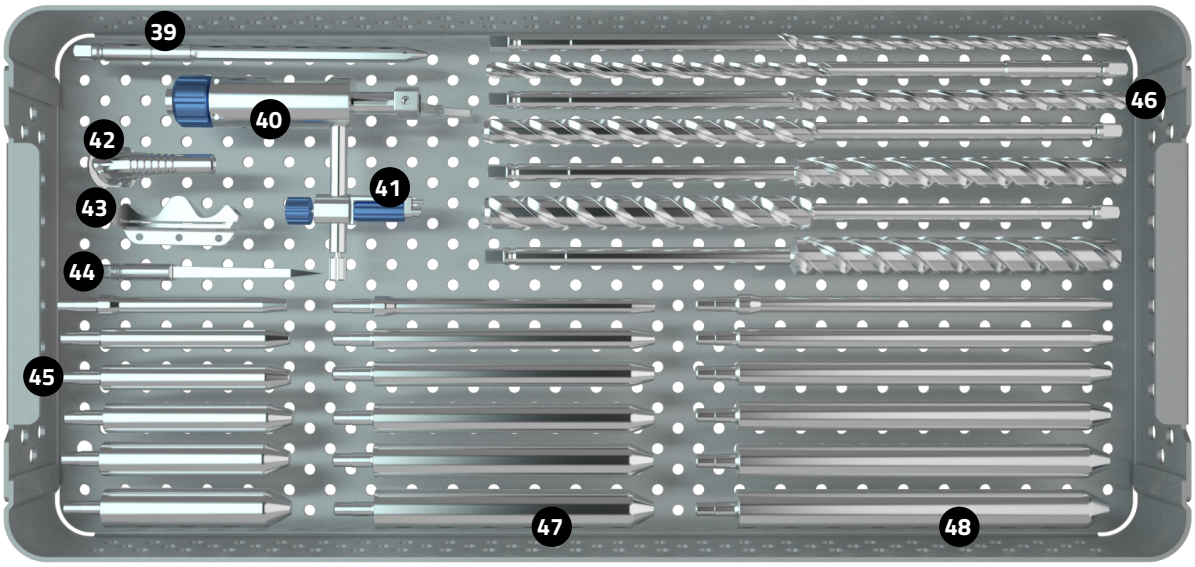
CASE 2 | TRAY 1



34	SLIDE HAMMER	DIX-D4SS00000S	37	HUMERAL METAPHYSIS TRIAL	DIX-Q3SS000XXS
35	HUMERAL STEM TRIAL - S	DIX-S0SS001XXS	38	BROACH HOLDER	DIX-L8SS00001S
36	HUMERAL COMPONENT INSERT	DIX-T5SS00001S			

CASE LAYOUT

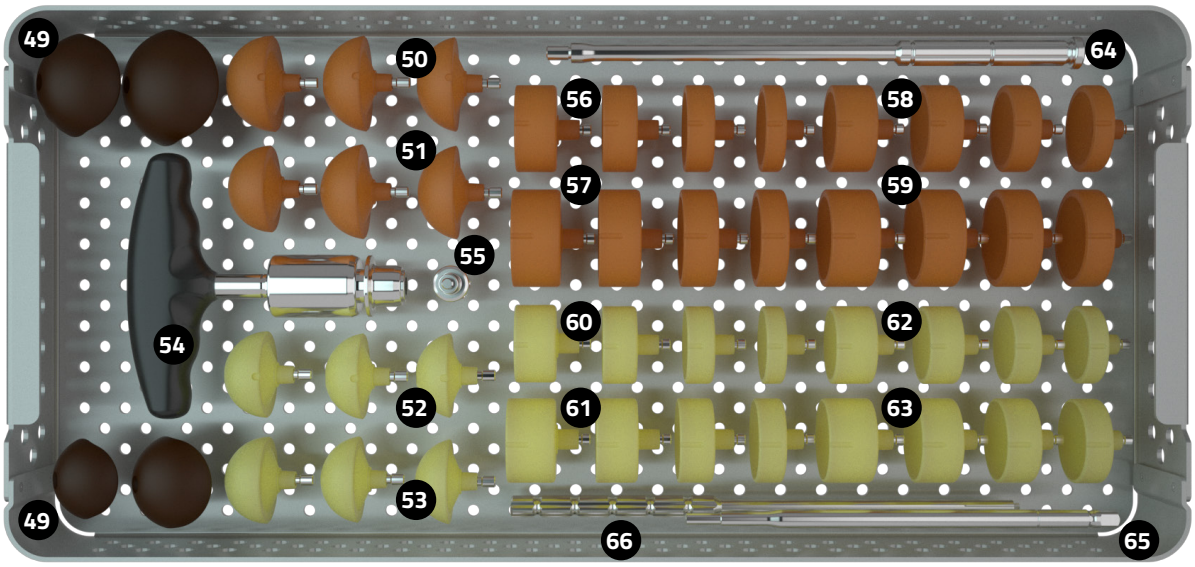
CASE 2 | TRAY 2



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

CASE LAYOUT

CASE 3 | TRAY 1

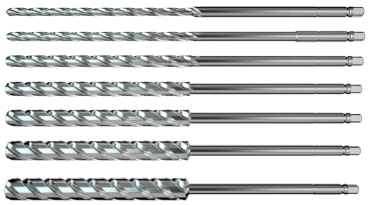


49	CTA HEAD TRIAL	DIX-H0PL0XXXXS	58	HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL02XXXS
50	ECCENTRICAL GLENOSPHERE TRIAL	DIX-N0PL03XXXS	59	HUMERAL CUP TRIAL - STANDARD	DIX-P1PL02XXXS
51	GLENOSPHERE TRIAL	DIX-N0PL00XXXS	60	HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL04XXXS
52	ECCENTRICAL GLENOSPHERE TRIAL	DIX-N0PL03XXXS	61	HUMERAL CUP TRIAL - STANDARD	DIX-P1PL04XXXS
53	GLENOSPHERE TRIAL	DIX-N0PL00XXXS	62	HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL02XXXS
54	DINAMOMETRIC T-HANDLE 3.5Nm	DIX-Z3SS00000S	63	HUMERAL CUP TRIAL - STANDARD	DIX-P1PL02XXXS
55	CILINDRICAL ADAPTER	DIX-E2SS00001S	64	GLENOSPHERE HOLDER	DIX-L1SS00000S
56	HUMERAL CUP TRIAL - HIGH MOBILITY	DIX-P2PL04XXXS	65	GLENOSPHERE REMOVER	DIX-D2SS00000S
57	HUMERAL CUP TRIAL - STANDARD	DIX-P1PL04XXXS	66	SCREW HEX 3.5MM HOLDER	DIX-L4SS00001S

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-A2SS05038S
METAL BACK L	DIX-A2SS04034S
METAL BACK XL	DIX-A2SS05042S

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-D0SS00000S

SHELL REMOVER DIX-D3SS00000S

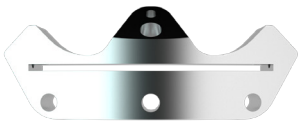
SLIDE HAMMER DIX-D4SS00000S

CILINDRICAL ADAPTER MF DIX-E2SS00001S

CUTTING GUIDE - GUIDE ROD

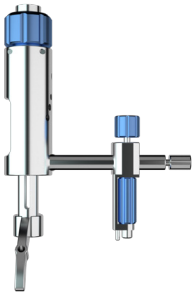
LONG	DIX-F1SS40045S
SHORT	DIX-F1SS40015S

CUTTING GUIDE - MASK DIX-F1SS30000S



CUTTING GUIDE - MASK PROBE DIX-F1SS50000S

CUTTING GUIDE DIX-F1SS10000S DIX-F1SS20000S



DRILL GUIDE DIX-G0SS00003S

TOOLS

CTA HEAD TRIALS

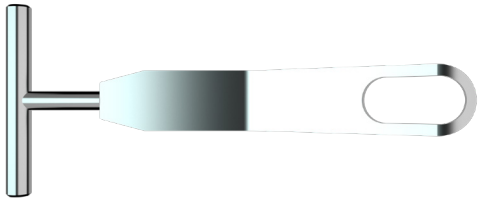
D36 - H13	DIX-H0PL01336S
D41 - H15	DIX-H0PL01541S
D46 - H17	DIX-H0PL01746S
D52 - H19	DIX-H0PL01952S

ECCENTRIC HUMERAL HEAD TRIALS

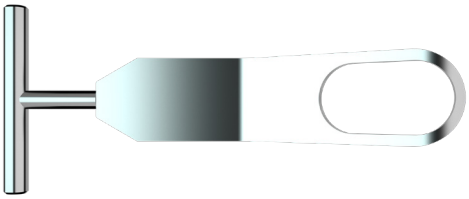
Ø36MM - H13MM - 3MM	DIX-I1PL31336S
Ø39MM - H14MM - 3MM	DIX-I1PL31439S
Ø41MM - H15MM - 4MM	DIX-I1PL41541S
Ø44MM - H16MM - 4MM	DIX-I1PL41644S
Ø46MM - H17MM - 4MM	DIX-I1PL41746S
Ø48MM - H18MM - 5MM	DIX-I1PL51848S
Ø52MM - H19MM - 5MM	DIX-I1PL51952S

EXTENSION DIX-J0SS00000S

FUKUDA SMALL DIX-K0SS00025S



FUKUDA LARGE DIX-K0SS00035S



HOHMANN FLAT DIX-K1SS00020S

HOHMANN BENT DIX-K1SS10020S

PIN EXTRACTOR DIX-K2SS00000S

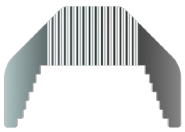
TOOLS

AWL DIX-K6SS00000S

INTRAMED ROD DIX-K6SS00001S

CANCELLOUS SCREW AWL DIX-K6SS00002S

HUMERAL HEAD CALIPER DIX-K9SS00003S



GLENOID SCREW CALIPER DIX-K9SS00004S

GLENOSPHERE HOLDER DIX-L1SS00000S

METAL BACK HOLDER DIX-L3SS00000S

DRILL MASK HOLDER DIX-L4SS00000S

UNIVERSAL HANDLE DIX-L5SS00000S

PIN HOLDER DIX-L6SS00000S

TOOLS

HUMERAL COMPONENT HOLDER REVERSE — DIX-L8SS00000S

BROACH HOLDER — DIX-L8SS00001S

GLENOSPHERE TRIALS

Ø38MM	DIX-N0PL00038S
Ø42MM	DIX-N0PL00042S
Ø38MM LATERALIZED +2	DIX-N0PL00238S
Ø42MM LATERALIZED +2	DIX-N0PL00242S
Ø38MM LATERALIZED +4	DIX-N0PL00438S
Ø42MM LATERALIZED +4	DIX-N0PL00442S

ECCENTRICAL GLENOSPHERE TRIALS

Ø38MM - Eccentrical	DIX-N0PL03038S
Ø42MM - Eccentrical	DIX-N0PL03042S
Ø38MM LATERALIZED +2 - Eccentrical	DIX-N0PL03238S
Ø42MM LATERALIZED +2 - Eccentrical	DIX-N0PL03242S
Ø38MM LATERALIZED +4 - Eccentrical	DIX-N0PL03438S
Ø42MM LATERALIZED +4 - Eccentrical	DIX-N0PL03442S

SCREWDRIVER HEX 3.5MM — DIX-O0SS00135S

METAPHISIS 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-P1PL04638S
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-R0SS00036S
Ø41 MM	DIX-R0SS00041S
Ø46 MM	DIX-R0SS00046S
Ø52 MM	DIX-R0SS00052S

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

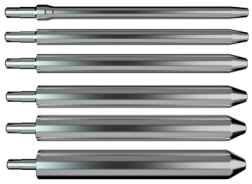
IMPACTOR INSERT

CUP IMPACTOR INSERT	DIX-T0PL00000S
GLENOID IMPACTOR INSERT	DIX-T1PL00000S
HUMERAL HEAD IMPACTOR INSERT	DIX-T2PL00000S

HUMERAL STEM TRIAL - MEDIUM

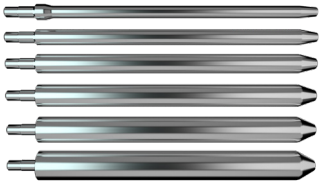
Ø7MM - MEDIUM	DIX-S0SS00207S
Ø9MM - MEDIUM	DIX-S0SS00209S
Ø11MM - MEDIUM	DIX-S0SS00211S
Ø13MM - MEDIUM	DIX-S0SS00213S
Ø15MM - MEDIUM	DIX-S0SS00215S
Ø17MM - MEDIUM	DIX-S0SS00217S

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

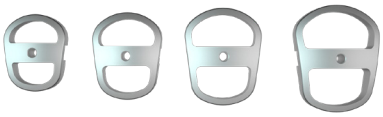
HUMERAL COMPONENT INSERT DIX-T5SS00001S

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-Z1SS00000S

SILICONE T-HANDLE DIX-Z2SS00000S

DYNAMOMETRIC T-HANDLE 3.5 Nm DIX-Z3SS00000S

SILICONE RATCHETING HANDLE DIX-Z4SS00000S

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.

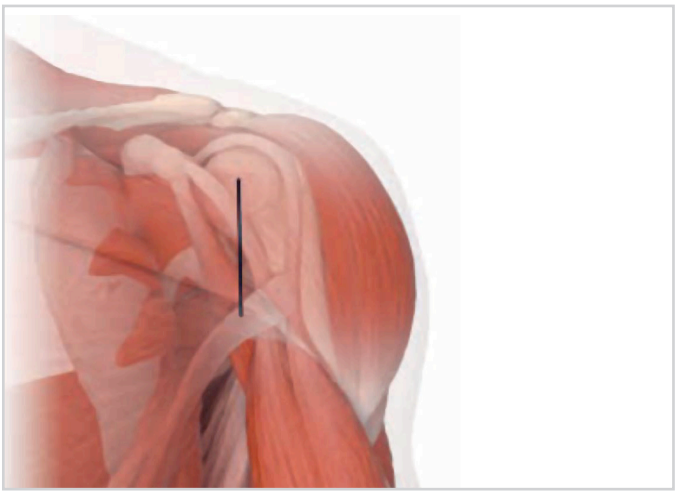
As an example, it is recommended to determine: (i) humeral diameter, (ii) humeral head diameter, (iii) humeral head retroversion, (iv) glenoid height and width, (v) glenoid neck length.

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.

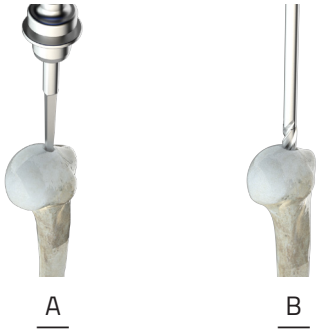
ACCESS

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.



SURGICAL TECHNIQUE

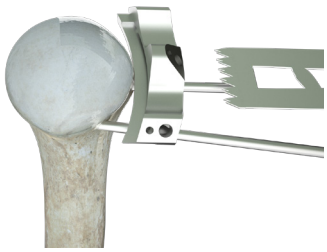
1 —



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.

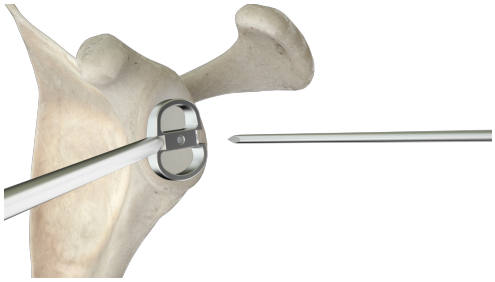


Lock the mask with the pin. Remove the intramedullary guide or reamer and perform the humeral head osteotomy using a 1.27mm-thick blade placed in the slot on the guide. Remove the pins. Throughout each of these steps, ensure that you constantly remain parallel to the resection plane shown on the guide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

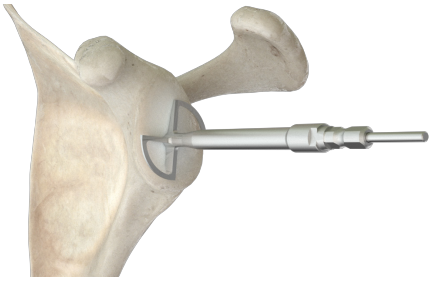
After performing the osteotomy, add the appropriate protective cover.

2 —

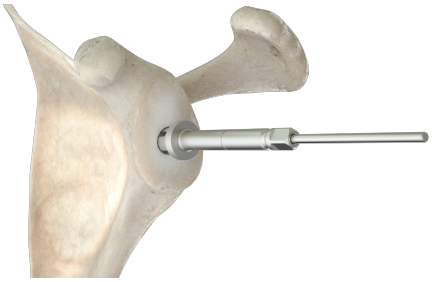
Glenoid Preparation



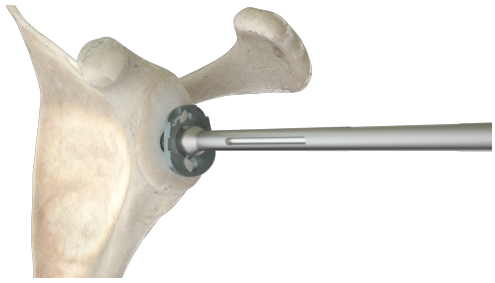
After fully exposing the glenoid, prepare the metal back slot using the appropriate size phantom and a 3.2mm-diameter guide wire. The guide wire must be oriented perpendicular to the bone surface.



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.

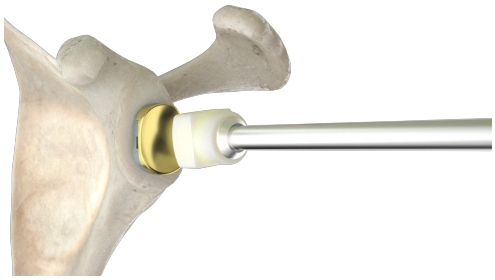
Once the glenoid is in place, drill the anchor screw holes with the 3.2mm drill bit inserted into the drill sleeve.

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.

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.

5. Anatomical Configuration —

Placement of the final humeral implant

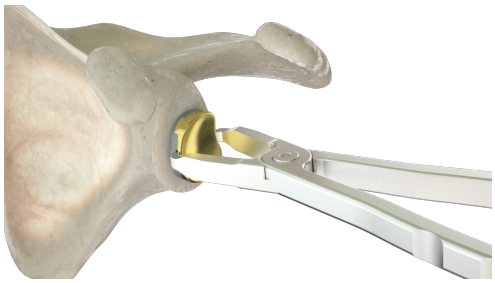
Remove the trial component.

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.

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 —

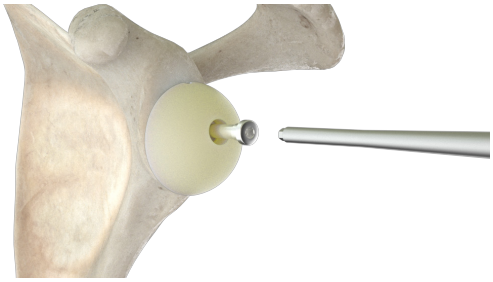
Trial Reduction

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.

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.

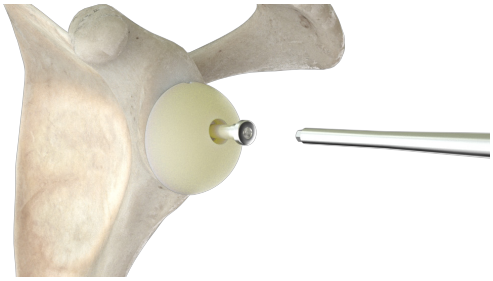
Check that the surfaces in contact with each other are thoroughly clean and that neither the cup nor cone are intruding on the bone tissue.Lastly, secure the fit by using the impactor for the humeral cup to tap lightly. Apply the selected humeral cup to the metaphysis so that the prosthesis is aligned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

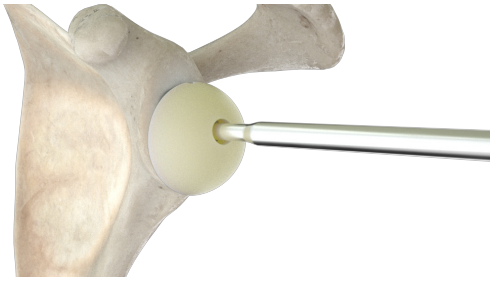
Note 3*: In the event of conversion, if a spacer is present, remove it and, if deemed appropriate, replace it with a new spacer.*

11. CTA Configuration —

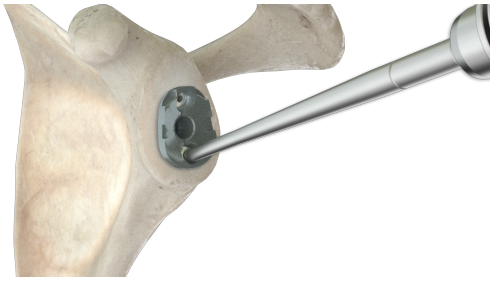


Reverse Configuration Removal

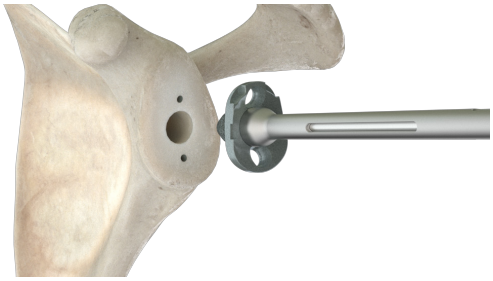
In order to proceed with removing the glenosphere, first remove the locking screw using the screwdriver.



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



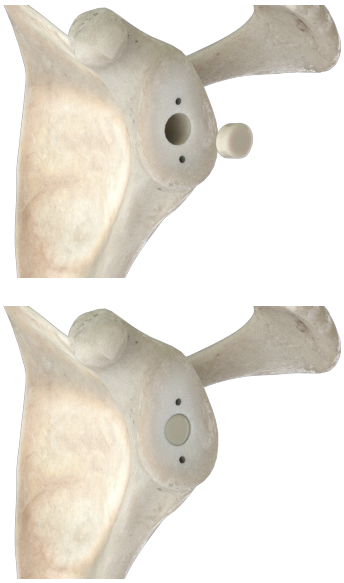
Remove the two screws with the screwdriver.



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.

12. CTA Configuration —



Osteochondral Graft

If deemed appropriate, an osteochondral cylinder may be grafted.

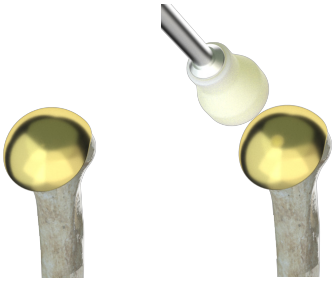
13. CTA Configuration —

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.

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-A00T500109
	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-A00T500411
	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-A01T500411
	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 METAPHISIS

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

POLYETYLENE 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-C10PE51952

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

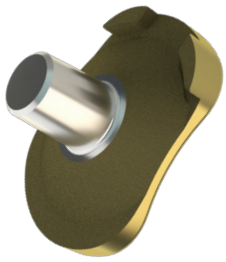
NOTE: ALL KEEL GLENOIDS ARE CEMENTED

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

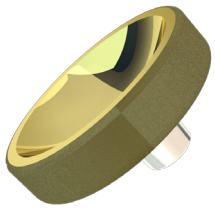
CoCr ALLOY	Ø38MM - 2.5MM - +0MM	DIX-F20CC02038
	Ø38MM - 2.5MM - +3MM	DIX-F20CC02338
	Ø38MM - 2.5MM - +6 MM	DIX-F20CC02638
	Ø38MM - 2.5MM - +9 MM	DIX-F20CC02938
	Ø38MM - 4.5MM - +0MM	DIX-F20CC04038
	Ø38MM - 4.5MM - +3MM	DIX-F20CC04338
	Ø38MM - 4.5MM - +6MM	DIX-F20CC04638
	Ø38MM - 4.5MM - +9MM	DIX-F20CC04938
	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 - 4.5MM - Low profile	DIX-F00CC04038
	Ø42MM - 2.5MM - Low profile	DIX-F00CC02042
	Ø42MM - 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 - 4.5MM - Low profile	DIX-F02CC04038
	Ø42MM - 2.5MM - Low profile	DIX-F02CC02042
	Ø42MM - 4.5MM - Low profile	DIX-F02CC04042

GLENOSPHERE

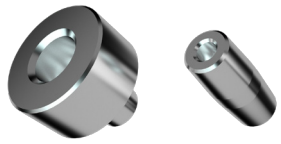
VITAMIN E-BLENDED UHMWPE	Ø38MM	DIX-G00PE00038
	Ø42MM	DIX-G00PE00042
	Ø38MM LATERALIZED +2MM	DIX-G00PE00238
	Ø42MM LATERALIZED +2MM	DIX-G00PE00242
	Ø38MM LATERALIZED +4MM	DIX-G00PE00438
	Ø42MM LATERALIZED +4MM	DIX-G00PE00442

ECCENTRICAL 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-H10T500000
	MM - OFFSET +2MM	DIX-H10T500002
	MM - OFFSET +4MM	DIX-H10T500004
	MF	DIX-H10T500012

CTA HEAD

CoCr ALLOY	D36 - H13	DIX-L00CC31336
	D41 - H15	DIX-L00CC31541
	D46 - H17	DIX-L00CC31746
	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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