

Solar[®] Bipolar

Shoulder System



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Bipolar Shoulder Arthroplasty

Pre-operative templating can aid in the preparation of the case. Proper templating allows evaluation of both the neck length and head diameter. In cases with irreparable rotator cuff tears, it may be necessary to account for the additional joint space between the humeral head and acromion.

Preparation of the humeral canal can begin as specified in the Solar Total Shoulder Surgical Protocol (LSPUE-4). The final broach is left in place to allow for the use of the bipolar component trials.

The 22mm modular heads trials are available in three neck lengths, while the bipolar components are available in four outer diameters (see table). Select the desired 22mm head trial and place on the broach trunnion. The bipolar head trial is placed on the 22mm trial head. The bipolar head assembly is then reduced to assess proper soft tissue tension and joint function.



22mm Head Trial



Bipolar Head Trial

Item	Implant Catalog #	Trial Catalog #
22mm Bipolar Modular Head + 0 NK	5080-2200	5180-2200
22mm Bipolar Modular Head + 2 NK	5080-2202	5180-2202
22mm Bipolar Modular Head + 4 NK	5080-2204	5180-2204
40mm Bipolar Head Component	5081-4000	5181-4000
45mm Bipolar Head Component	5081-4500	5181-4500
50mm Bipolar Head Component	5081-5000	5181-5000
55mm Bipolar Head Component	5081-5500	5181-5500

Continue per surgical protocol for humeral component implantation. The trials can be reevaluated, if necessary, once the final stem has been implanted.

Bipolar Dedicated Instrumentation	Catalog#
22mm Bipolar Head Impactor	5180-0020
Bipolar Head Removal Tool	5180-0050
Bipolar Instrument Tray	5180-0090

Thoroughly clean and dry the trunnion on the humeral component. Place the bearing head on the trunnion and secure it in place using the 22mm Bipolar Head Impactor (5180-0020) and a mallet. Several sharp blows are used to seat the head. The Bipolar Head Component is assembled to the 22mm head with hand pressure. Rotate the Bipolar Head Component to verify full locking ring containment.

The shoulder is reduced and stability confirmed. The case is then completed per protocol.



The 22mm head is seated with the Head Impactor (5180-0020).

Removal of Bipolar Head Component

The 22mm head can be disassociated from the humeral component by using the Humeral Head Extractor (5900-0030). The 22mm head is removed from the Bipolar Head Component with the Bipolar Head Removal Tool (5180-0050). Place the end of the tool into the 22mm head taper firmly to establish a lock (finger pressure only! - do not use a mallet). Slide the sleeve forward until it contacts the locking ring. Remove the Bipolar Head Component.



Insert the removal tool into the head taper. Press firmly until the taper locks.



Slide the sleeve into the Bipolar Shell to dilate the locking ring.



The Head will separate from the shell easily.



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