

Harmony Pedicular Screw System Surgical Technique



STEP 1

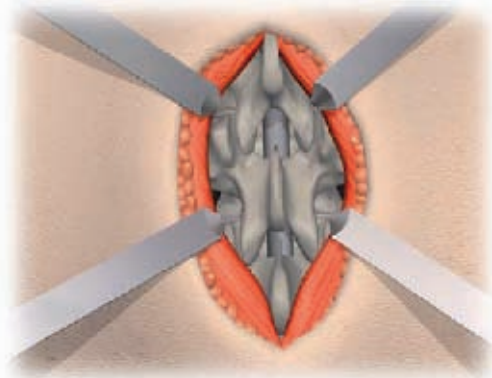
Patient positioning

The patient is placed in a ventral decubitus position and abdomen should not be compressed in order to prevent any abnormal blood loss.



STEP 2

A small incision of a few centimeters is made on posterior approach through the subcutaneous tissue.



Implants used

Monoaxial screw

REF: HAMS42-55



Polyaxial screw

REF: HAPS55-30



Transverse connector

REF: HACLS



Pre-bended or straight rod

REF: HASR55-140 or HACR55-45




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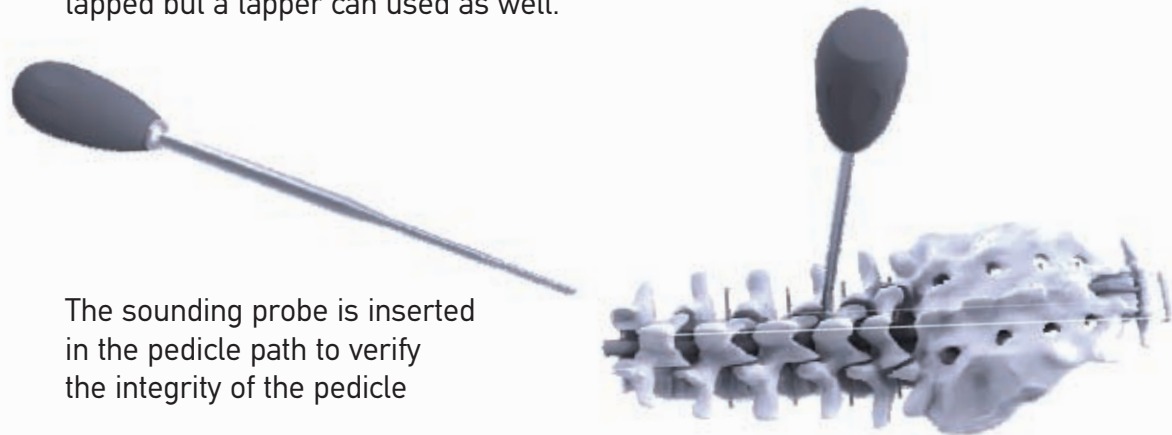
STEP 3

Pedicle preparation

After adequate exposure, the appropriate pedicle entry point is selected, use a awl to perforate the cortex of the pedicle.



The pedicle probe straight or curved is used. The marking on the probe indicate the pedicle depth. All screws are self tapped but a tapper can used as well.



The sounding probe is inserted in the pedicle path to verify the integrity of the pedicle

Instrumentation

Pedicle awl
REF: HAAW10

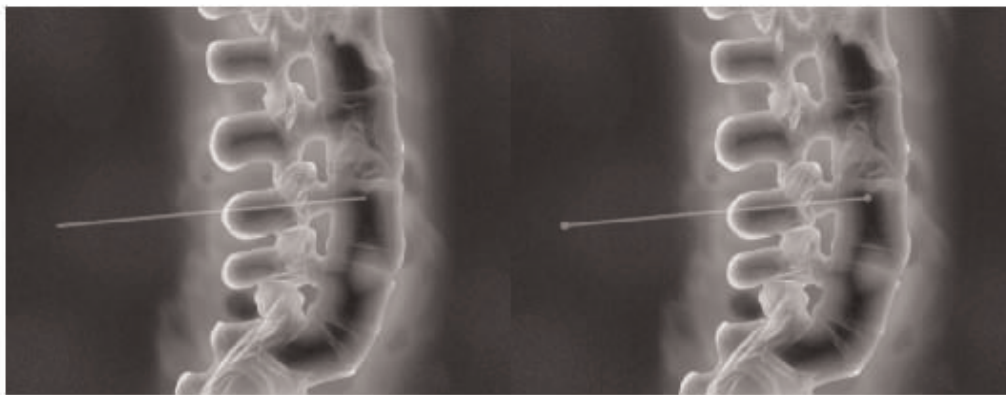
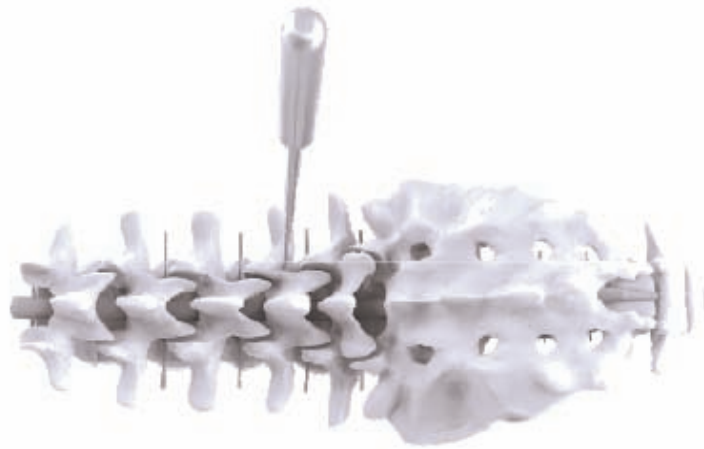


Probe straight
REF: HAAPS10



STEP 4

Right and left pins can be placed into the pedicle and its positioning can be confirmed on AP and lateral radiographs to guaranty proper orientation and trajectory.



Instrumentation

Probe curved
REF: HAAPC30



Sounding probe
REF: HAASP40



Guide pin, left
REF: HAAGPL60



Guide pin, right
REF: HAAGPR50

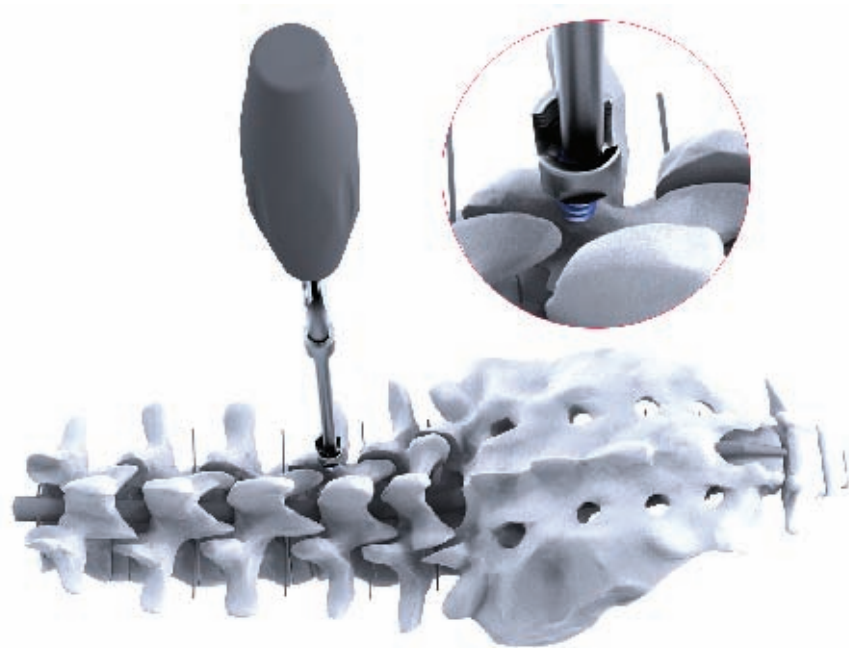



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STEP 5

The pedicle screw is secured on the torx screwdriver and then inserted into the pedicle path.



Instrumentation

Torx screwdriver with handle
REF: HAATSDH70




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STEP 6

Final lock nut tightening

Assemble the torque wrench and the torx screw driver.

Position the counter torque instrument over the head of the screw and slide the torx screw driver into it and then tighten the nut until an audible click is heard.



Repeat the process until the remaining nut is fully tightened.

Instrumentation

Standard handle

REF: HAASD10



Free handle

REF: HAAFH60



Torque screwdriver

REF: HAATSD50



Counter torque

REF: HAACT30




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STEP 7

Transverse connector Placement

Determine the appropriate transverse connector length using the measurer.

Select the appropriate transverse connector and position the implant onto the rods with the help of the curved forceps.



Use the torx screw driver and with the torque wrench and the counter torque in order to tighten the nuts of the assembly.



Instrumentation

Measurer
REF: HAAM20



Rod holder
REF: HAARH70



Rod pusher, straight
REF: HAARPS80



Rod pusher, curved
REF: HAARPC90




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STEP 8

Spondylolisthesis screws

With the help of the torx screw driver, position the screw into the pedicle

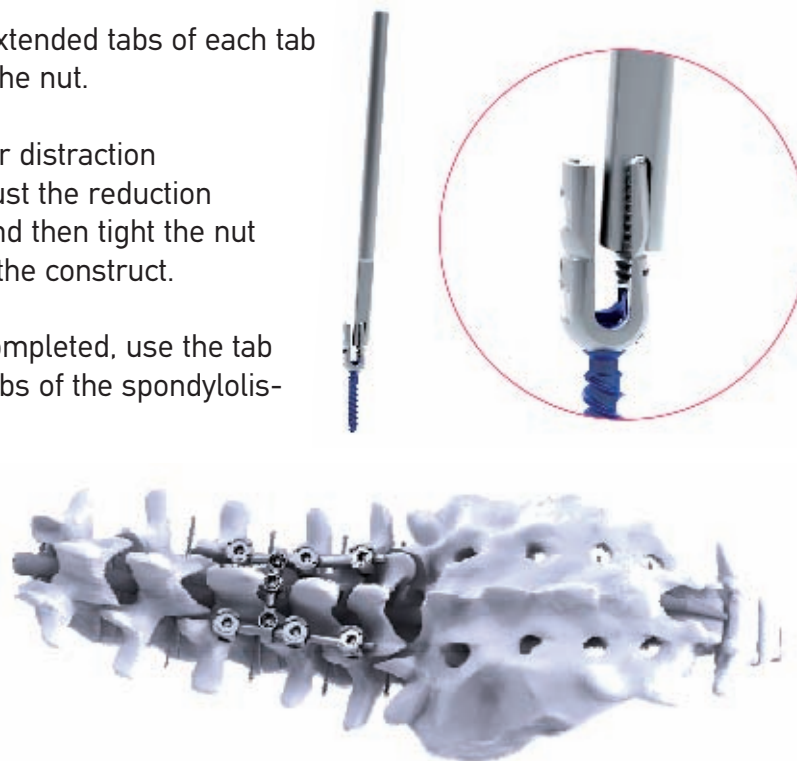
Use the rod pusher rocker to fully seat the rod into the head of the polyaxial screw.

Insert the nut into the extended tabs of each tab screw and slowly tight the nut.

With the compression or distraction instruments please adjust the reduction desired of the patient and then tight the nut in order to fully secure the construct.

Once the construct is completed, use the tab remover to break the tabs of the spondylolisthesis screws.

For the final locking procedure, use the torque wrench to fully secure the construct.



Implants used

Torx screwdriver with handle

REF: HAATSDH70



Rod rocker

REF: HAAWR20



Extension remover

REF: HAAER80



Standard handle

REF: HAASH10



Spondylo screw

REF: HASS55-35




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