

Precision Bone Grafting System Operating Technique

The operative site is exposed in the routine way. The stabilising guide is selected and positioned as desired over the graft site.

• Location of Stabilising Guide

There are four "K" wire channels positioned around the rim of the stabilising guide. Select two or more of these to use for "K" wire fixation of the guide. We recommend the use of .035" "K" wires, these will allow easy removal and accurate relocation during the procedure.

Using a wire driver fix the guide to the bone at the graft site. On completion cut the wires above the guide - cut them at uneven lengths This will make it easier to thread the guide back over the wires should you need to do so during the procedure.



In some instances you may wish to fix the guide at an angle so as to position a graft across a fracture site. This is easily accomplished, but the use of two wires is recommended in this situation, so as to ensure stability of the guide.

• Using Bone Dowel Saw

Select the Bone Dowel Saw blade size you wish to use and attach the handle. If you wish to use the smaller sizes place the matching sleeve in the guide. The sleeves are marked with a number corresponding to the saw blade size they are to be used with. Place the saw in the guide. Oscillate the blade while applying moderate pressure.



• Determining Depth

There are two bone punches for removal of the bone dowel from within the saw blade. The Punches will fit through the aperture in the middle of the handle and pass down through the centre of the blade.

You will see the smaller of these punches has graduations marked at 2mm intervals and may be used as a depth guide. When it protrudes 6mm from the handle (3 graduation marks) you will have cut to a depth of 6mm.

• Preparing Graft Site

When you have reached the required depth carefully rock the Dowel Saw from side to side - you may wish to slide the stabilising Guide up the wire to allow yourself more movement of the saw.



Retract the saw from the graft site. Generally the bone plug will come out with the saw. If this does not occur you will find it simple and efficient to finish site preparation with a curette or ronguers.

When you have completed site preparation slide the stabilising guide down the wires into position.

• Harvesting Graft - Iliac Crest

It is only necessary to make a stab incision at the harvest site. Please remember that a key advantage is to frequently allow the procedure to be carried out on a day case basis under local anaesthetic.

Position the Harvesting Guide through your stab incision. You will find this easier by first inserting the obturator within the guide before you advance it through the soft tissue.



Then select the sleeve one size larger than that which you used at the graft site and position this within the interchange sleeve. The correct saw blade will now fit the guide exactly. As before, oscillate the saw within the guide while applying moderate pressure.

Use the Graduated Punch to measure depth.

PBG - Operating Technique...

Once in position remove the obturator then select the appropriate Dowel Saw blade and any sleeves that may be required.

You must use one size larger blade than that which you used at the graft site.

A cut made by the outer diameter of one blade is equal to a cut made by the inner diameter of the next bigger blade.



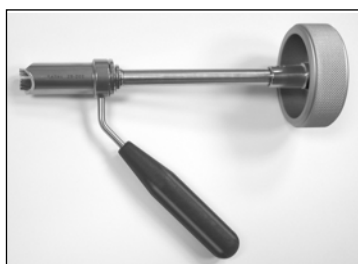
Select the Interchange Sleeve (No. 5) from the instrument tray - fit this into the Harvest Guide. Then select the sleeve one size larger than that which you used at the graft site and position this within the interchange sleeve.

The correct saw blade will now fit the guide exactly. As before, oscillate the saw within the guide while applying moderate pressure.

Use the Graduated Punch to measure depth. When the desired depth is reached rock the saw gently to assist in releasing the bone dowel and retract the saw. The bone dowel will be extracted and be positioned within the blade.

Repair the harvest site in the routine fashion.

We appreciate that many surgeons may wish to combine this procedure with various forms of internal fixation. These techniques can be utilised on completion of this precision bone grafting procedure.



• Placing the Graft

The graft is pushed from the saw blade using the applicable size punch. It is pushed through the stabilising guide and into position. It is often useful to remove the guide once placement is initiated and then to use the Punch to push the graft home.

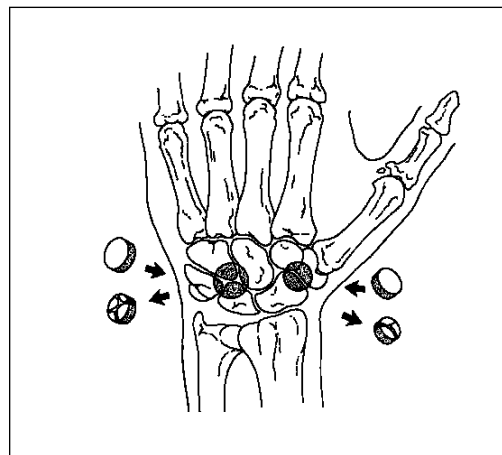
The procedure is then complete.

We appreciate that many surgeons may wish to combine this procedure with various forms of internal fixation.

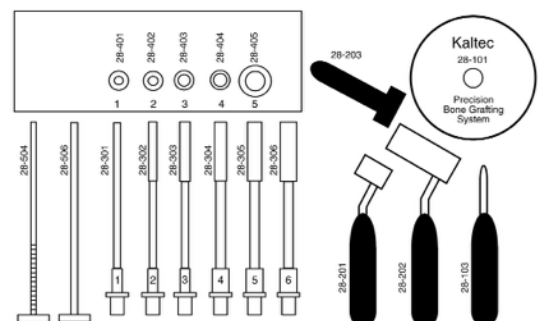
These techniques can be utilised on completion of this precision bone grafting procedure.

• Tube Saw Sizes

1.	5.0 mm ID	6.5 mm OD
2.	6.5 mm ID	8.0 mm OD
3.	8.0 mm ID	9.5 mm OD
4.	9.5 mm ID	11.0 mm OD
5.	11.0 mm ID	12.5 mm OD
6.	12.5 mm ID	14.0 mm OD



Wrist area showing the cluster of bone fragments being replaced by a single graft section



Tray layout showing all components