

HumanTech
Spine



VENUS[®]

Augmentation



Universal cement application

The HumanTech® cement application consists of the Bone Filler, which is used by the standardised Luer lock connection with the cement holders of the most common systems in kyphoplasty and vertebroplasty both openly and also percutaneously, the Cementadapter CPS, the Cementadapter Inserter, the Cementadapter Extractor and the bone cement OSTEOPAL® Plus.

The cement application provided in the VENUS® and VENUS®mini kit is used in conjunction with the large selection of fenestrated VENUS® screws, multi-threaded osteoporosis screws (VENUS® 6T screws) and VENUS® revision screws.

The special Cementadaptors ensure problem-free injection of the cement if the bone substance is poor.

OSTEOPAL® Plus bone cement represents an ideal supplement, as this has an optimal consistency for application with the Bone Filler and exhibits a greater X-ray opacity for controls than other products due to the high content of ZrO₂.

Item no.	Name	Image
1006020600	Cement Adapter CPS	
1006020603	Bone Filler	
1006020601	Cement Adapter Inserter	
1006020602	Cement Adapter Extractor	
3100000400	OSTEOPAL® plus 20g	



Inserting the Cementadapter

Push the Cementadapter in over the guide wire on the Cementadapter Inserter and lock it into the instrument holder. Insert the equipped Cementadapter Inserter into the cannula of the pedicle screw via the guide wire. Turn the inserter half a revolution to the left and then screw the Cementadapter fully into the polyaxial head as far as the end position. If the polyaxial head cannot move freely, use the Monoaxial Screw Driver and make turning motions to allow the polyaxial head to be aligned with the screw.

Note:

Never use the Cementadapter Inserter here because, in this case, the guide wire may bend and the Cementadapter cannot be positioned correctly!

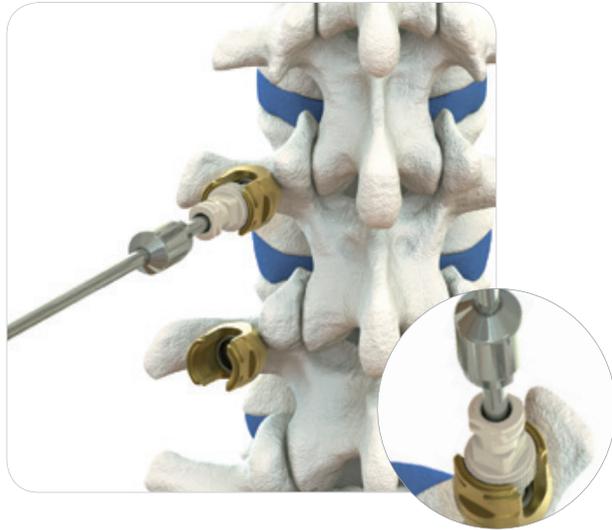


Filling the BoneFiller

Mix the bone cement as per the manufacturer's instructions for use and fill the Bone Filler using a syringe.

Recommendation:

Use a moderate to high viscose bone cement with a quick curing time. We recommend the use of OSTEOPAL® Plus bone cement, as this has an optimal consistency for application with the bone filler and exhibits a greater X-ray opacity for checks than other products due to the high content of ZrO₂.

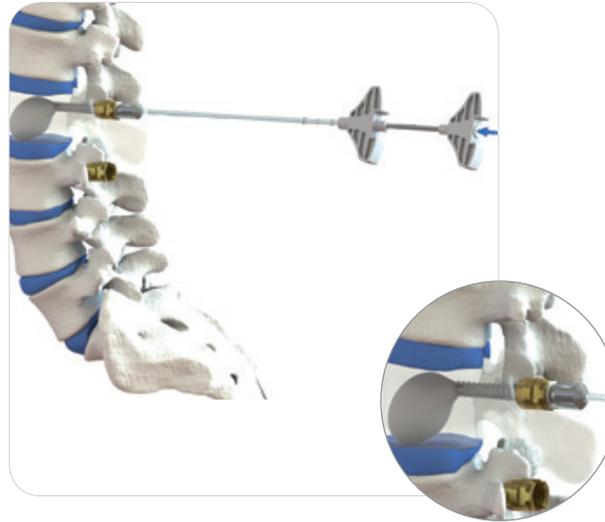


Applying the Bone Filler

Screw the Bone Filler onto the Cement adapter. Optionally, the syringe can also be screwed directly onto the Cement adapter.

Note:

The standardised Luer-lock-connection allows the Bone Filler to be used with all current systems in kyphoplasty and vertebroplasty. The Bone Filler applied to the cement adapter must not be used for subsequent correction of the screwing depth of the pedicle screw as this may adversely affect the connection between the instrument and the implant.



Cement injection

When injecting the cement using the Bone Filler, a predefined amount (1.5 ccm) is applied. While doing so, make sure that the injection is carried out evenly and not with too high a pressure, so as to prevent the cement from flowing back. Only one Bone Filler may be used for each Cement adapter and screw. Premature removal of the Bone Filler or screwing it into the Cement adapter a second time and/or screwing the Cement adapter onto the screw a second time can result in unwanted cement discharge in the region of the polyaxial head.

Note:

Once the cement has been applied, an X-ray control is required to monitor the volume of injected cement.

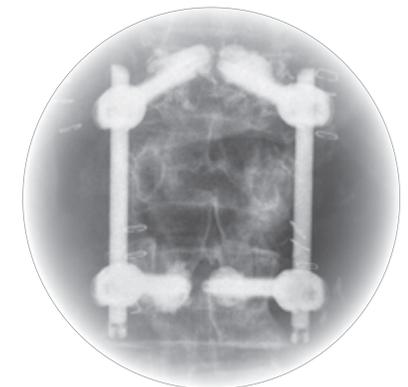


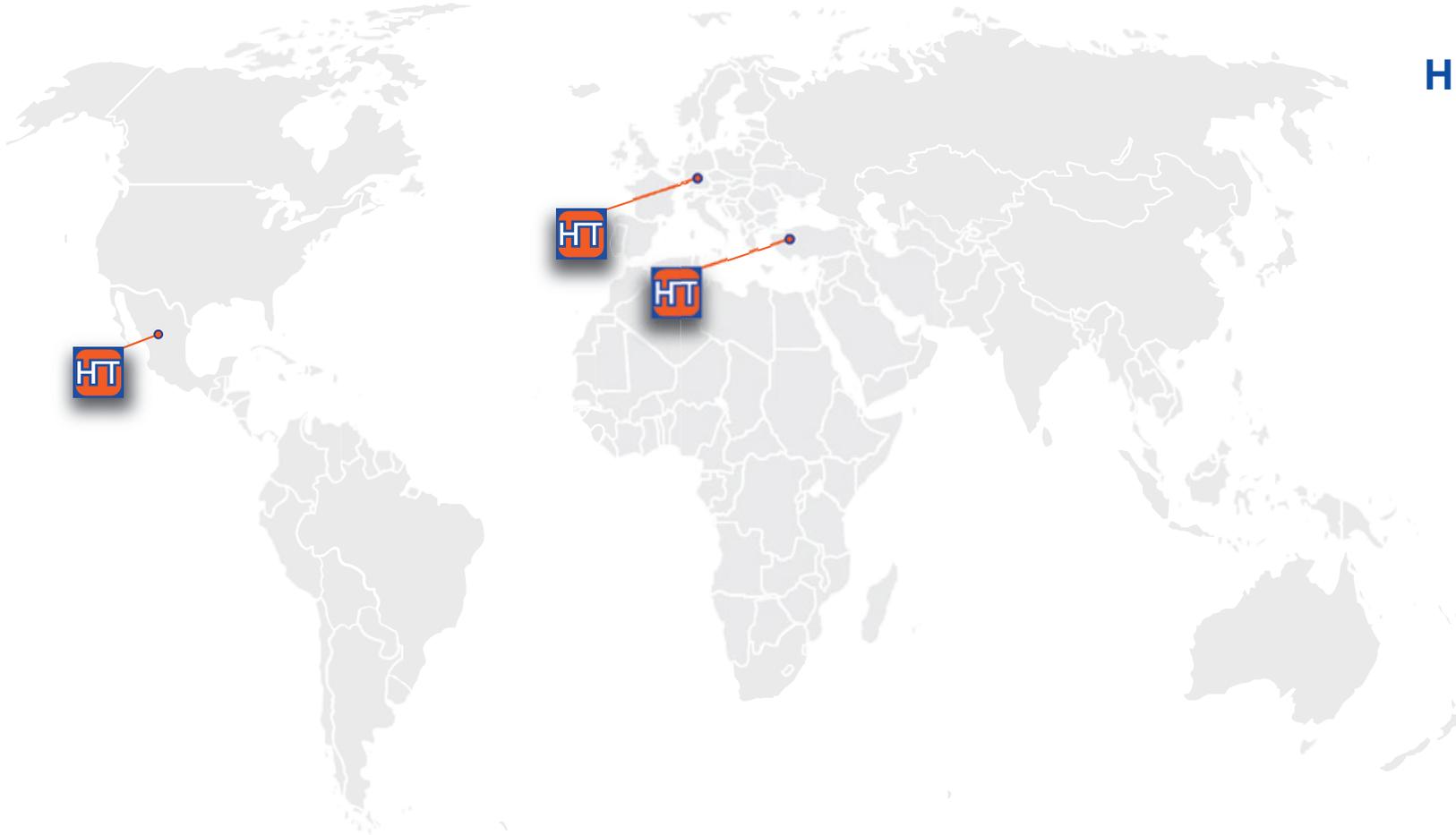
Removing the Cement adapter

Remove the Bone Filler and unscrew the Cement adapter using the removal instrument (Cement adapter extractor) immediately after applying the cement. To prevent the polyaxial head from turning as well, a Rocker from the VENUS® system can be used as a counterholder.

Note:

The Cement adapter is only intended for single use.





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