

In-service checklist

Revolution[®] cement mixing system



The points below should be covered when carrying out a bone cement in-service for scrub personnel.

Tips: To ensure a good turnout, before your in-service, advertise the important details in common places (above scrub sinks, bulletin boards, etc.) and via email.

Beginning an in-service by addressing difficulties and listing them in front of your participants is a best practice among trainers. From there, the in-service provider can walk through the steps necessary to resolve

these difficulties and cover any other relevant product information. To establish further understanding of the product, it is recommended that the staff be asked to perform functions on the equipment without assistance. It may also be beneficial to partner the group up and ask for a return demonstration.

To assure optimal participation and information absorption it is recommended that in-services are made mandatory, attendance is tracked and followed up with a quiz or a test.

Prepare equipment and materials

- Remove the cement media components (powder, monomer) from their outer packages using proper sterile technique. Set aside until needed.
- Remove all of the cement mixing components (base, cartridge, funnel, lid assembly with shaft) from the sterile blister pouch using proper sterile technique.
- Connect the large diameter end of the vacuum tube to the vacuum pump. Set aside the other end until needed.

Combine cement components

- Place the base on the table with the cartridge's open end up. Insert the funnel into open end of the cartridge, if not attached.
- Carefully pour the bone cement components into the cartridge in the correct sequence per the cement manufacturer's recommendations.
- Remove the funnel from the cartridge.
- Secure the lid assembly onto the cartridge by pushing it down and simultaneously turning it clockwise until it clicks (locks).

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Apply vacuum pressure

- Remove the cement media components (powder, monomer) from their outer packages using proper sterile technique. Set aside until needed.
- Attach the small diameter end of the vacuum tube to the lid assembly on the cartridge.
- Apply vacuum pressure until the gauge on the vacuum pump reads 20 to 22 in. Hg (508-559 mmHg). Use one of the vacuum pumps.

Mix cement components

- Remove the cartridge from the base and connect a rotary power tool to the mixer shaft.
- Using the power tool, completely mix the bone cement by continuously moving through the full length of the cartridge for approximately 30 seconds.
- Remove the power tool from the mixer shaft.
- Remove the vacuum tube from the lid assembly on the cartridge.
- Install application nozzle.

Manual cement mixing (optional)

- Aligning the center line on the handle with the line on the shaft, press the handle onto the mixer shaft of the lid assembly until it snaps into place.
- Pump and twist the handle through the entire vertical length of the cartridge for approximately 30 seconds.

Reference:

- 0606-553-700 Rev C Revolution IFU

This document is intended to be a supplement to the product IFU. For detailed instructions, please consult the IFU.