



Simplicity and grace
All-in-One device

 **smith&nephew**
RALLY [◇]
Bone Cement

Current techniques can be complicated and clumsy

What's **wrong** with this picture?

Back table clutter with cement boxes and mixer boxes



Broken glass in the OR

- Potential for glass in cement
- Potential for injury to hands/fingers

Monomer fumes from open glass containers

- Monomer must be poured into vacuum mixer offering no fume protection for staff

Loss of monomer and powder to back table

- Can change mechanical properties
- Can change working properties
- Disorganized and messy workspace

Do you want this mess in your efficient Operating Room?

A pioneering approach to address the problems, the All-in-One device

Now for the **right** picture.

Streamlined, efficient back table



Reduced packaging waste

Containment of glass

- No cuts to hands/fingers
- No glass in cement

Reduced monomer fumes

- Monomer is completely contained inside All-in-one device

Complete containment of all monomer and powder inside device

- No change in ratio of powder to liquid
- Organized and clean workspace

RALLY[◇] Bone Cement *keeps cementing simple*

How to use the RALLY[◇] All-in-One System¹

1. Gently tap powder chamber to loosen powder.
2. Hold device around center white ring in one hand while positioned over a sturdy surface. Strike button on top with palm of the other hand.

Note: For a sturdy surface be sure to hold and strike over strut of a table.

3. Continue to pump button until all liquid is transferred into powder chamber.

Note: Look down through monomer chamber and center ring to ensure all monomer has been transferred.

Optional: Connect vacuum hose to device and to vacuum pump. Switch on vacuum pump for 10-30 seconds.

4. Unlock (one quarter turn counter-clockwise) mixing rod. Begin mixing by pulling and pushing without turning mixing rod for approximately one minute.

Note: Mix with monomer chamber upright until all monomer is integrated into powder (20-30 seconds). Then finish with mixing powder chamber upright to mix in all powder.

Caution: Do not continue twisting mixing rod after it is unlocked. Rod can disconnect if it continually twisted.

Optional: Switch off vacuum pump and disconnect vacuum tube from device after all mixing is completed.

5. Remove mixing rod by turning device powder chamber upright and fully extending mixing rod. Turn mixing rod counter-clockwise until it disengages.

Note: While turning mixing rod, a squeak should be audible.

6. Connect breakaway nozzle to powder end of system by screwing it on in a clockwise fashion where mixing rod was removed.

7. Remove large air bubbles in mixing chamber by pushing monomer chamber up into powder chamber as a cement plunger.

Note: Cement should be pushed up to breakaway point of nozzle.

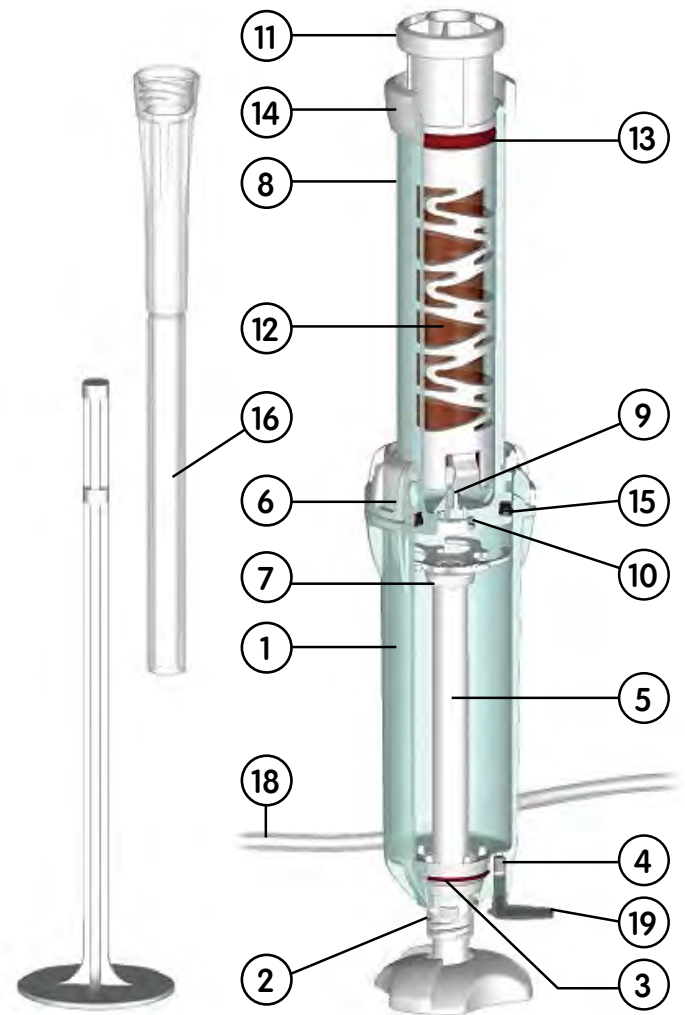
8. Introduce system into RALLY All-in-One Gun by engaging struts on device into grooves on gun and pushing device forward.

9. Extrude cement by pulling and releasing gun trigger.

Optional: Remove breakaway nozzle and use push rod to expel cement left inside nozzle if necessary.

For a video showing how to use the All-in-One System please go to the following link:

<http://snsend.co/how-to-rally>



| Legend | Description |
|--------|-----------------------------|
| 1 | Powder chamber |
| 2 | Screw connection |
| 3 | O-ring |
| 4 | Vacuum filter |
| 5 | Mixing rod and support base |
| 6 | Ring |
| 7 | Mixer |
| 8 | Monomer chamber |
| 9 | Monomer ampoule breaker |
| 10 | Filter |
| 11 | Button |
| 12 | Spring |
| 13 | O-ring |
| 14 | Ring |
| 15 | O-ring |
| 16 | Breakaway nozzle |
| 17 | Push rod |
| 18 | Vacuum hose |
| 19 | Vacuum tube connector |

How to order the RALLY[®] All-in-One System

The RALLY All-in-One Systems contain 70 grams of cement (equivalent to 1.75 boxes of manual cement) and comes in both high and medium viscosity, with or without antibiotics. To use for a case, the surgical team only needs the RALLY All-in-One System of the surgeon's choice and a reusable RALLY All-in-One Cement Gun.

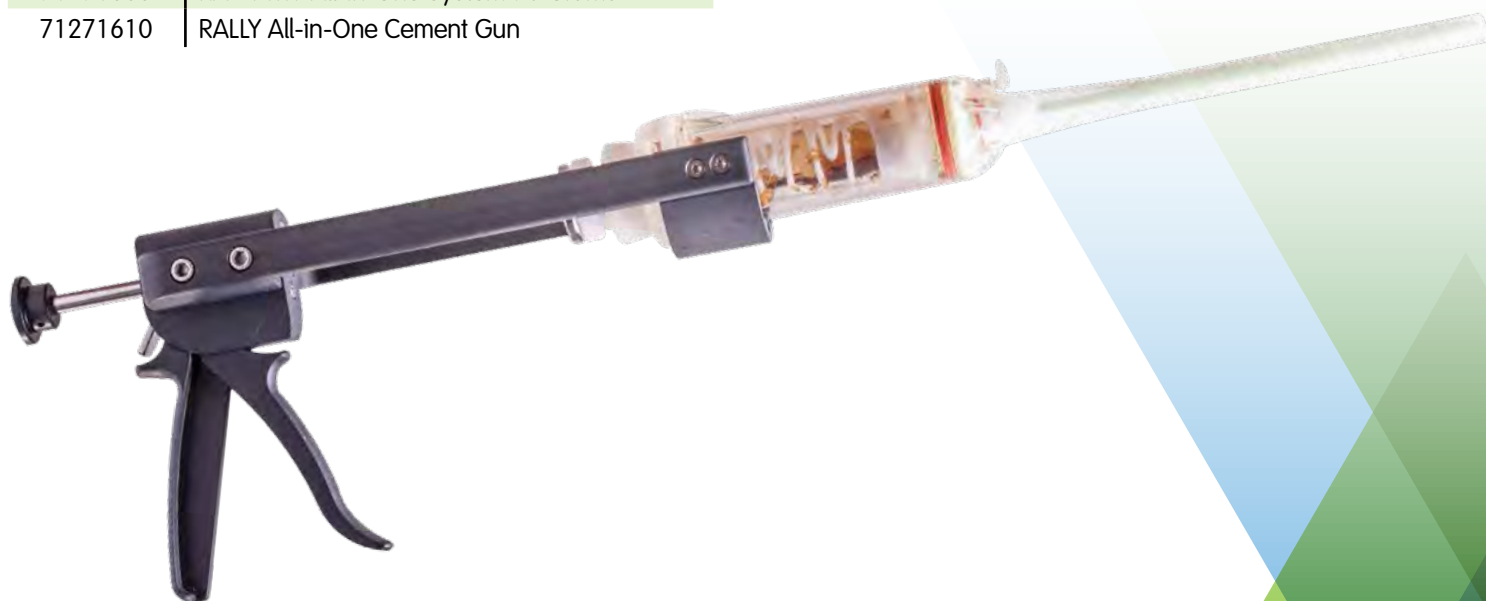
Since the RALLY All-in-One system is highly unique, it is strongly recommended to trial several non-sterile samples of the All-in-One to in-service the surgical team prior to the first case.

Samples:

| Part Number | Description |
|-------------|----------------------------|
| 71271720 | RALLY HV All-in-One Sample |
| 71271730 | RALLY MV All-in-One Sample |

Product:

| Part Number | Description |
|-------------|--|
| 71271600 | RALLY HV AB All-in-One System 70 Grams |
| 71271605 | RALLY HV All-in-One System 70 Grams |
| 71271680 | RALLY MV AB All-in-One System 70 Grams |
| 71271685 | RALLY MV All-in-One System 70 Grams |
| 71271610 | RALLY All-in-One Cement Gun |



References

1. Smith & Nephew. RALLY All-in-One System IFU. Z1G148. Rev.00. 15.07.15

Supporting healthcare professionals for over 150 years

Smith & Nephew, Inc.
1450 Brooks Road
Memphis, TN 38116
USA

www.smith-nephew.com

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