



**MIXIGUN®
Bone Cement
Mixing and
Dispensing
System**



Two Steps in One System



MIXIGUN System – A Process for Success

With the *MIXIGUN* Bone Cement Mixing and Dispensing System, you can have a vacuum system that reduces bone cement porosity without having the need for a metal injection gun. The *MIXIGUN* System combines two functions – mixing and injection- into one product. Because of the unique mixing/injection design, the system ensures an efficient and dependable process for bone cement mixing and delivery, while reducing costs associated with the sterile processing and logistical handling of reusable injection guns.

Key features of the MIXIGUN System

- Completely disposable system
- No metal/reusable injection gun needed
- No costs associated with sterile processing
- No logistics issues regarding gun availability
- Multiple kits available – Hip, Knee and Hybrid
- 2 processes in 1 – mixing and injection
- Reduction in fumes while loading
- Mixes all bone cements: high, medium and low viscosity
- Vacuum system reduces porosity of the cement
- Lightweight and ergonomic design
- Excellent injection pressure achieved with less effort

MIXIGUN System Knee



- | | |
|--|----------------|
| 1 Mixer/Injector | 4 Funnel |
| 2 Vacuum tubing set with charcoal filter | 5 Obturator |
| 3 Base | 6 Short nozzle |

MIXIGUN System Hip

Acetabulum kit



MIXIGUN System Hip

Femur kit



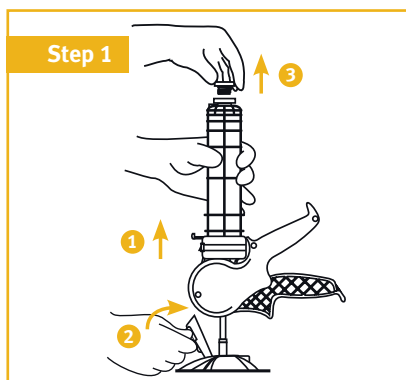
MIXIGUN System Hybrid



- | | |
|--|-------------------|
| 1 Mixer/Injector | 4 Funnel |
| 2 Vacuum tubing set with charcoal filter | 5 Obturator |
| 3 Base | 6 Short nozzle |
| | 7 Proximal sealer |

- | | |
|--|-------------------|
| 1 Mixer/Injector | 4 Funnel |
| 2 Vacuum tubing set with charcoal filter | 5 Obturator |
| 3 Base | 6 Short nozzle |
| | 7 Proximal sealer |
| | 8 Long nozzle |

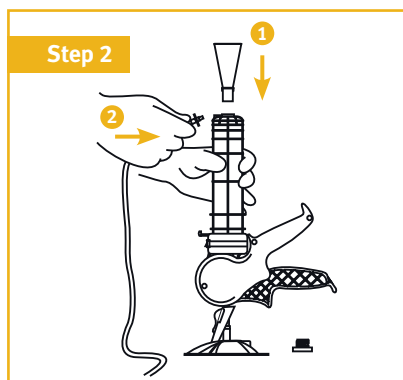
Instructions for Use



Step 1: Start – Position

Pull out the mixing rod 5cm–7cm. Set the mixing rod into the base and lock into position using the support. Unscrew the top plug and set aside for later use.

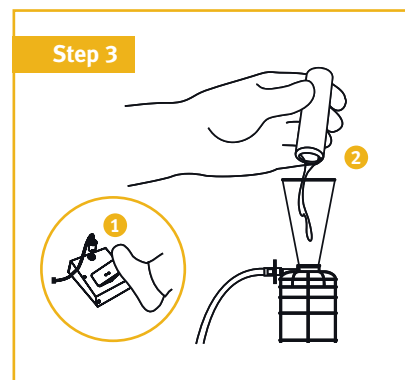
Caution: Make sure that the base rests on a flat and steady surface.



Step 2: Funnel – Vacuum Tubing

Put the funnel into place. Connect the vacuum tube fitting to the top of the cylinder.

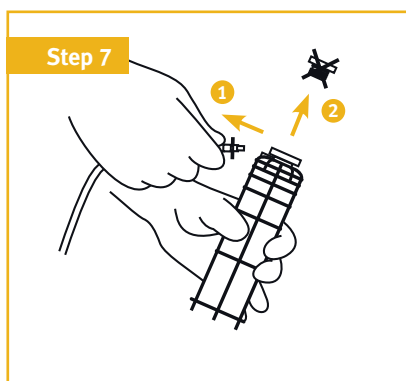
Caution: Make sure that the funnel is securely seated into the cylinder top.



Step 3: Monomer – Filling

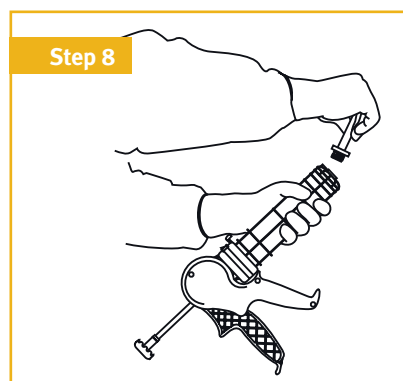
Start the vacuum pump. Fill the monomer.

Caution: Use vacuum during filling monomer. This significantly reduces exposure to monomer fumes.



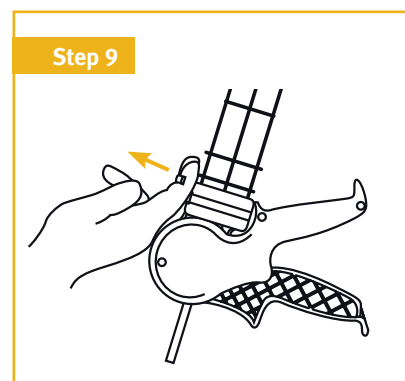
Step 7: Nozzle – Select

Stop the vacuum pump and remove the vacuum tube fitting. Unscrew and dispose the plug.



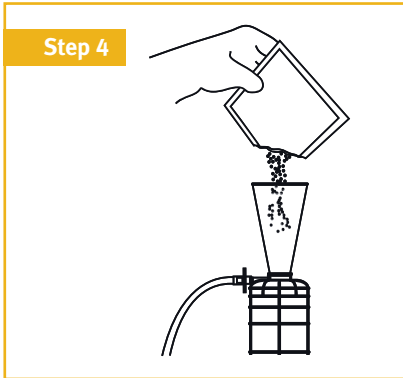
Step 8: Nozzle – Select

Select nozzle and screw firmly in place.



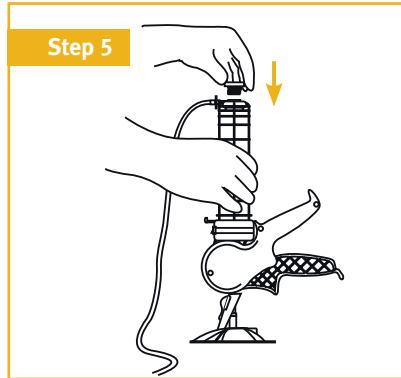
Step 9: Dispense Mode – Engage

Remove and dispose piston release pin.



Step 4: Powder – Filling

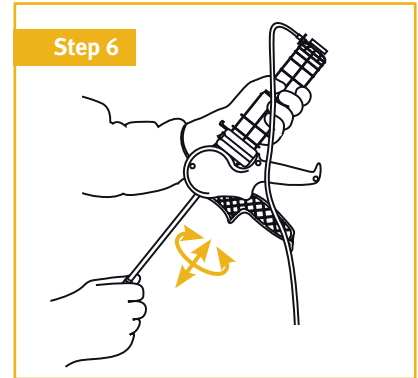
Fill the cylinder with bone cement powder.



Step 5: Powder – Filling

Detach and dispose the funnel. Thread the plug into cylinder top until tight.

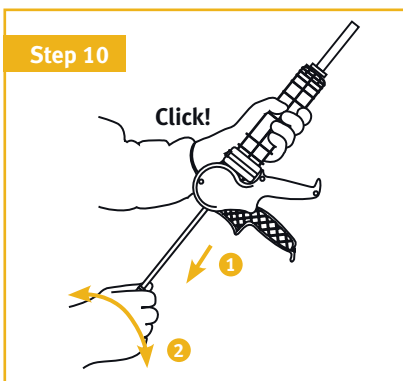
Caution: Ensure the plug is tight.



Step 6: Mixing – Start

Detach *MIXIGUN* System from the base. Using the mixing handle, move the mixing rod back and forth with rotating action.

Caution: Recommendation for mixing duration; 30–40 sec.



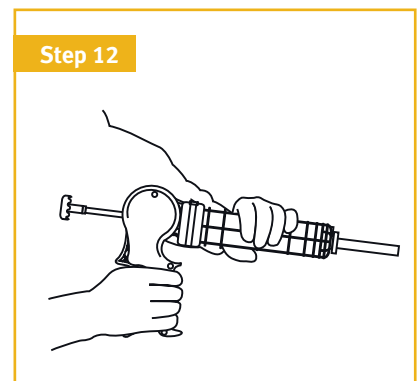
Step 10: Dispense Mode – Engage

Fully extend the mixing rod. Pull and rotate the mixing handle 45 degrees (either direction). When a “click” is heard, push the mixing rod upwards until it stops.



Step 11: Dispensing – Ready

Remove and dispose the locking pin.



Step 12: Dispensing – Ready

The gun is now ready for dispensing.

Caution: The bone cement must be extruded well within the working phase period. Injection of bone cement at or near set time may cause cartridge to fracture.

MIXIGUN Bone Cement Mixing and Dispensing System – Overview



Ordering Information



MIXIGUN® System Knee

Quantity	REF
1/Ea	00-5360-01ASE



MIXIGUN® System Hip

Quantity	REF
1/Ea	00-5350-01ASE



MIXIGUN® System Hybrid

Quantity	REF
1/Ea	00-5370-01ASE

EASYMIX® I Vacuum Pump

(without manometer)

Unit	REF
1 pc.	02-0401AAP

Air Hose 5 m

(without wall coupling)

Unit	REF
1 pc.	02-0202AAP

Air Hose 5 m

(with Medap wall coupling)

Unit	REF
1 pc.	02-0205AAP

Air Hose 5 m

(with Dräger wall coupling)

Unit	REF
1 pc.	02-0206AAP

Air Hose 5 m

(with DIN wall coupling)

Unit	REF
1 pc.	02-0207AAP

EASYMIX® Vacuum Pump Adapter

Unit	REF
1 pc.	00-5381-001MM

Zimmer® Vacuum Pump II

(with Schrader wall coupling)

Unit	REF
1 pc.	00-5049-087-00

Zimmer® Vacuum Pump II

(with Drager wall coupling)

Unit	REF
1 pc.	00-5049-088-00

Zimmer® Vacuum Pump II

(with Medap wall coupling)

Unit	REF
1 pc.	00-5049-089-00

Hi-Fatigue™™™ Bone Cement

Article	Quantity	REF
Hi-Fatigue Bone Cement 1 x 40 g	1/Ea	00-1120-140-01
Hi-Fatigue Bone Cement 2 x 40 g	1/Ea	00-1120-240-01
Hi-Fatigue Bone Cement G 1 x 20 g	1/Ea	00-1121-120-01
Hi-Fatigue Bone Cement G 2 x 20 g	1/Ea	00-1121-220-01
Hi-Fatigue Bone Cement G 1 x 40 g	1/Ea	00-1121-140-01
Hi-Fatigue Bone Cement G 2 x 40 g	1/Ea	00-1121-240-01

* MIXIGUN® is a trademark of ASEPT Medical AB, Sweden

** Hi-Fatigue™™™ is a trademark of aap Biomaterials GmbH & Co. KG

Contact your Zimmer representative or visit us at www.zimmer.com



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