

For minimally invasive fracture reduction

# Collinear Reduction Clamp

Surgical Technique



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 Image intensifier control

This description alone does not provide sufficient background for direct use of DePuy Synthes products. Instruction by a surgeon experienced in handling these products is highly recommended.

**Processing, Reprocessing, Care and Maintenance**

For general guidelines, function control and dismantling of multi-part instruments, as well as processing guidelines for implants, please contact your local sales representative or refer to:

<http://emea.depuyshes.com/hcp/reprocessing-care-maintenance>

For general information about reprocessing, care and maintenance of DePuy Synthes reusable devices, instrument trays and cases, as well as processing of DePuy Synthes non-sterile implants, please consult the Important Information leaflet (SE\_023827) or refer to:

<http://emea.depuyshes.com/hcp/reprocessing-care-maintenance>

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# Collinear Reduction Clamp

The Collinear Reduction Clamp system consists of:

- Sliding mechanism
- Attachable arms
- Reduction attachments

Intended Use can be found in the corresponding system Instructions for Use.



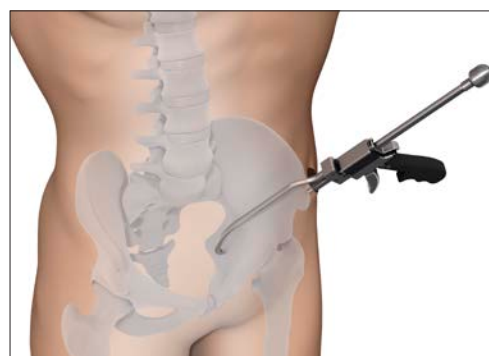
Reduction attachments for reduction against plates.

## Possible applications

The sliding mechanism accepts four different attachment arms.



Hohmann-shape Arm,  
183 mm  
398.752



Pelvic Arm  
225 mm  
398.753



Cannulated feed rod for temporary K-wire fixation



Percutaneous Arm,  
255 mm  
398.754



Bone Hook-shape Arm,  
206 mm  
398.756

# Handling Technique

## 1. Arm attachment/removal

To create a clamp, the sliding mechanism is used with an attachment arm.

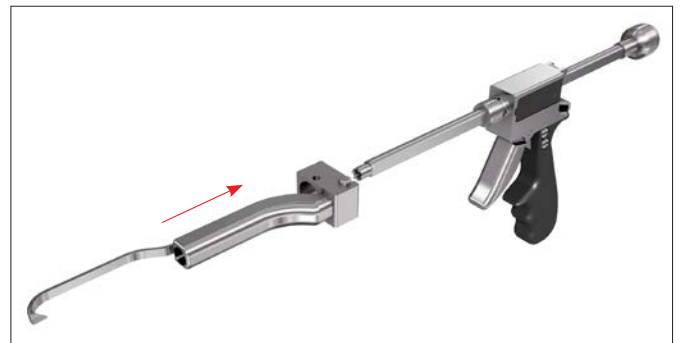
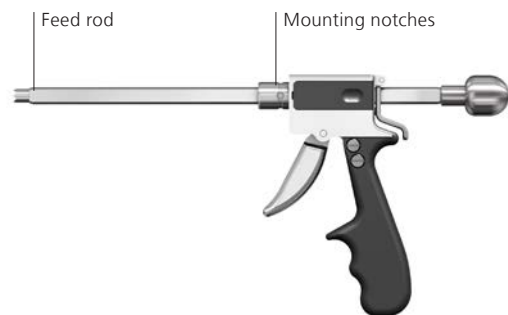
### Instruments

314.291	Collinear Reduction Clamp (Sliding Mechanism)
398.752	Hohmann-shape Arm
398.753	Pelvic Arm
398.754	Percutaneous Arm
398.756	Bone Hook-shape Arm

Select an attachment arm and slide it over the feed rod. Press the release button and mount the arm onto one of the mounting notches.

An arm can be repositioned by pressing the release button and rotating the arm to engage a different notch.

Remove the attachment arm by pressing the release button and sliding the arm off the notch.



## 2. Reduction

### Instruments

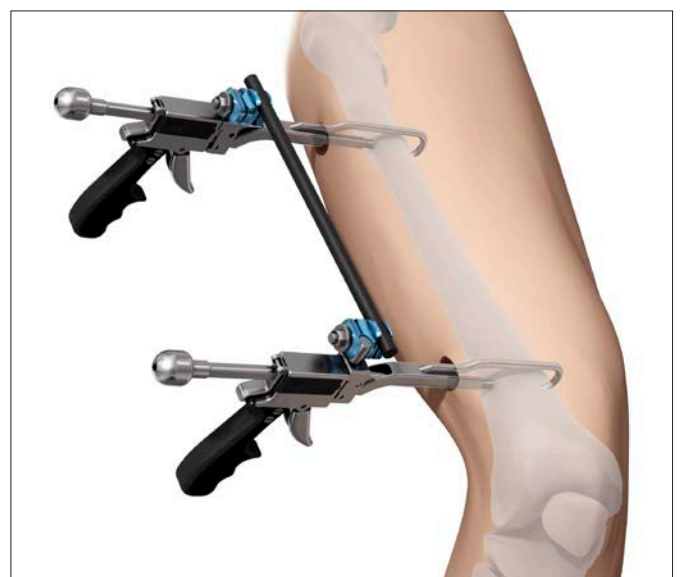
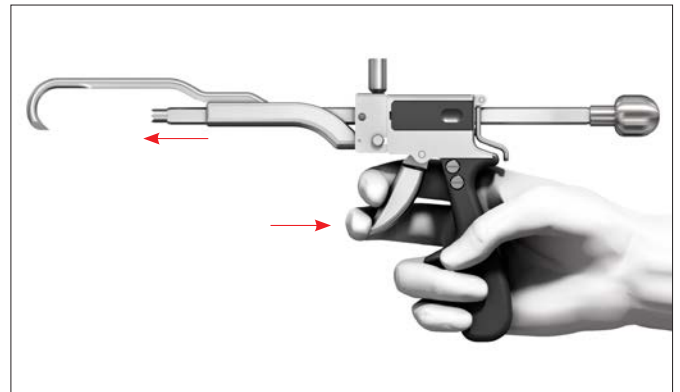
398.710	Disc, spiked, for reduction forceps
292.001	Kirschner Wire Ø 2.6 mm with spade point, length 500 mm, Stainless Steel

Squeeze the trigger to advance the feed rod and reduce the bone fragments. The clamp can be closed in very fine increments, allowing appropriate reduction of the fragments.

The feed rod has a 3 mm cannulation, permitting insertion of a guide wire to hold the reduction.

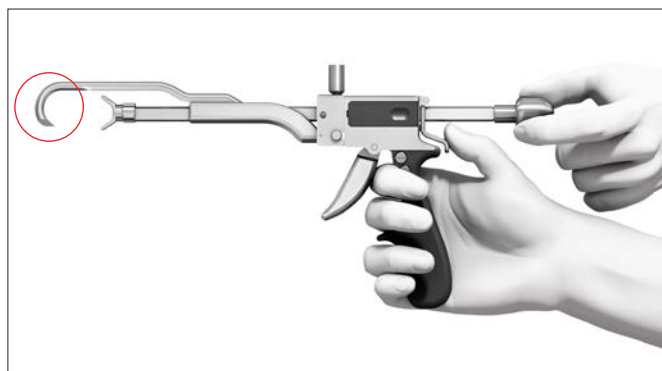
**Note:** Continued advancement of the feed rod may generate excessive clamping forces. A spiked disc to help distribute the compressive forces is available. The spiked disc can either be mounted on the tip of the percutaneous arm or on the tip of the feed rod.

The bone hook-shape arm is compatible to the DePuy Synthes Large External Fixator. Use combination clamps (390.005) to connect two collinear reduction clamps to a carbon fibre rod (394.800-394.870).



### 3. Reduction Attachments

**Note:** Watch the sharp tip of the attached arm.



#### 3a. Preparation

##### Instruments

398.757	LCP Reduction Attachment
398.758	Reduction attachment
321.158	Combination Wrench 8 mm
398.759	Combination Wrench 13 mm

After reprocessing, the reduction attachments are closed (sleeve is screwed down). Before using the reduction attachment, open it by screwing up the sleeve either by hand or by using the Combination Wrench 13 mm (398.759). To help holding the tip of the LCP reduction attachment, use the combination wrench 8 mm (321.158).

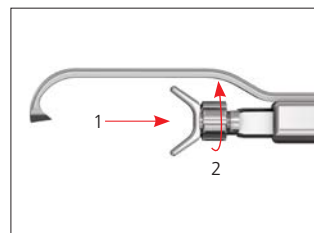
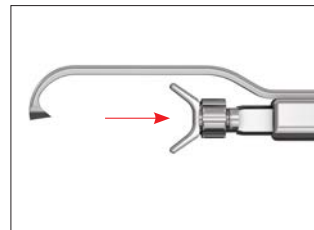
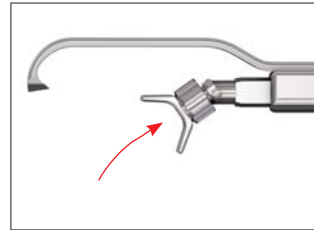




### 3b. Assembly

Mount the reduction attachment like shown. Align the two legs of the attachment to the flat surfaces of the feed rod. Start in a 90 degrees angle from below and slide the reduction attachment over the tip of the feed rod. The attachment clicks into place as soon as it is in the right position.

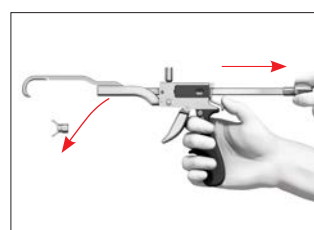
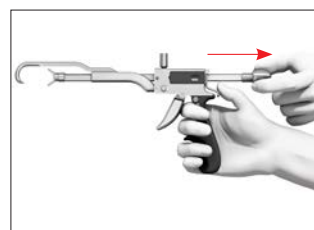
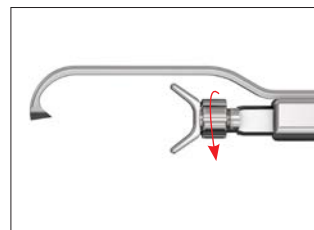
Secure the reduction attachment by screwing down the sleeve.



### 3c. Disassembly

First unscrew the sleeve of the reduction attachment either by hand or by using the combination wrench 13 mm 398.759.

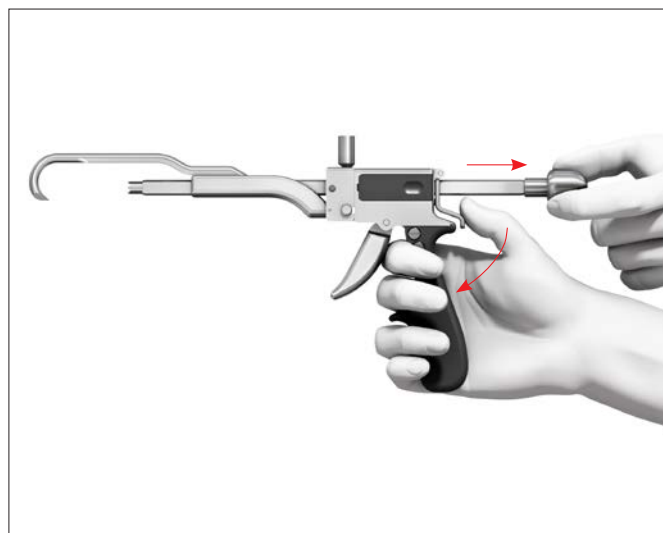
Then push the release lever and pull back the feed rod until the reduction attachment falls off.



#### 4. Release

To release the clamp, press the release lever and manually retract the feed rod. To remove the clamp after placing a guide wire into the bone through the cannulated feed rod, disconnect the attachment arm from the sliding mechanism.

**Note:** Do not squeeze the trigger while pressing the release lever, as this will not allow the feed rod to slide freely.



# Ordering Information

<b>Art. No.</b>	<b>Description</b>
181.500	Collinear Reduction Clamp, complete
681.500	Insert for Collinear Reduction Clamp, without Contents
314.291	Collinear Reduction Clamp (Sliding Mechanism)
398.752	Hohmann-shape Arm, for Collinear Reduction Clamp
398.753	Pelvic Arm, for Collinear Reduction Clam
398.754	Percutaneous Arm, for Collinear Reduction Clamp
398.756	Bone Hook-shape arm, for Collinear Reduction Clamp
398.757	LCP Reduction Attachment, for Collinear Reduction Clamp
398.758	Reduction Attachment, for Collinear Reduction Clamp
321.158	Combination Wrench 8.0 mm
398.759	Combination Wrench 13 mm

## **Additionally available**

292.001	Kirschner Wire Ø 2.6 mm with spade point tip, length 500 mm
292.001S	Kirschner Wire Ø 2.6 mm with spade point tip, length 500 mm, sterile
398.710	Disc, spiked, for Reduction Forceps

## **Recommended Vario Case components**

689.507	Lid, size 1/1, for Vario Case
689.508	Vario Case framing size 1/1, height 45 mm
68.000.101	Lid for Instrument Trag, Size 1/1

