



## Orthofix Humeral Flexible Reamer System

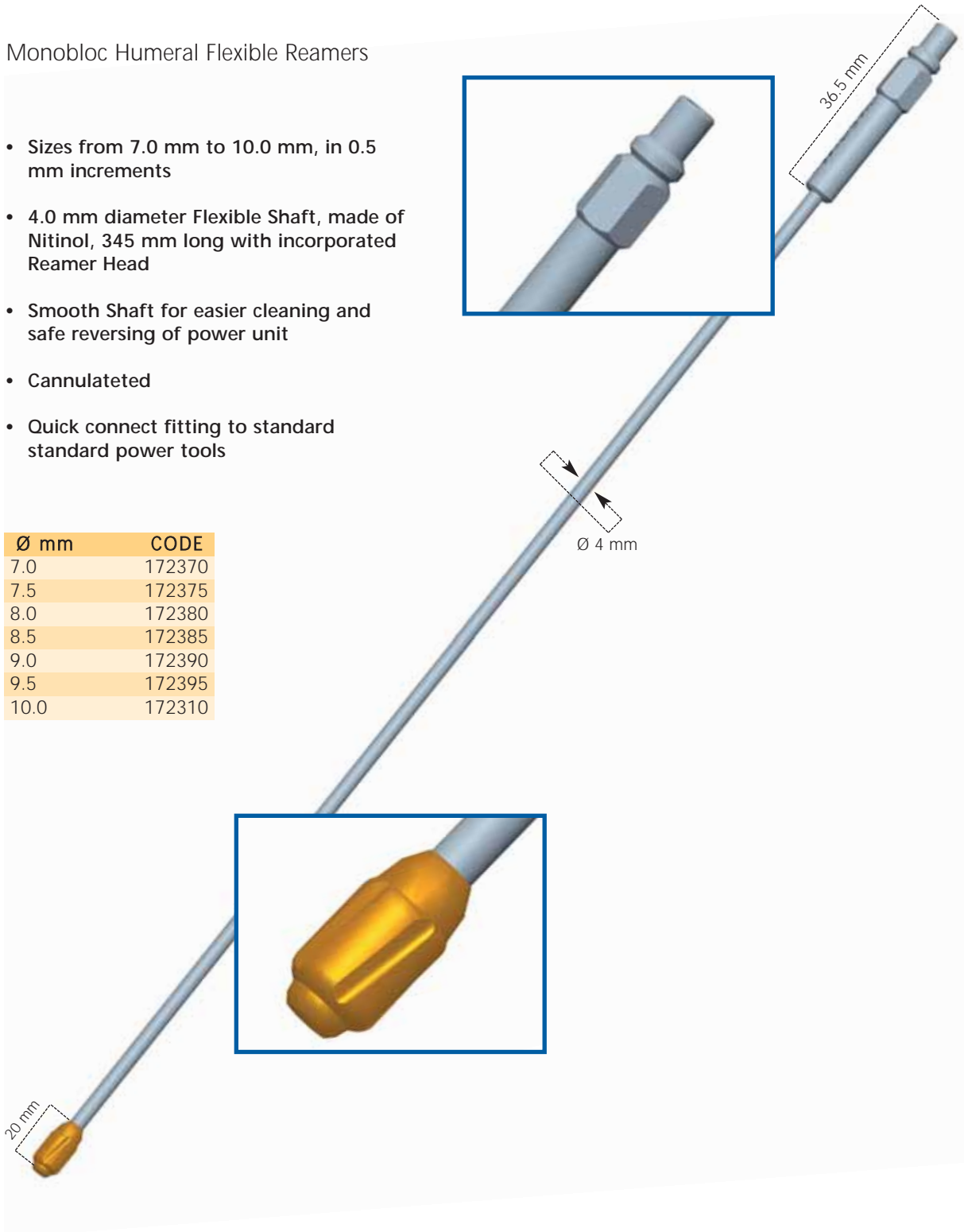
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## FEATURES AND BENEFITS

### Monobloc Humeral Flexible Reamers

- Sizes from 7.0 mm to 10.0 mm, in 0.5 mm increments
- 4.0 mm diameter Flexible Shaft, made of Nitinol, 345 mm long with incorporated Reamer Head
- Smooth Shaft for easier cleaning and safe reversing of power unit
- Cannulated
- Quick connect fitting to standard standard power tools

Ø mm	CODE
7.0	172370
7.5	172375
8.0	172380
8.5	172385
9.0	172390
9.5	172395
10.0	172310





Guide Wire with Olive, 2 mm Diameter,  
780 mm long, Sterile  
(99-178283)

- Olive diameter 4 mm
- Guides the flexible shaft through the fracture site
- Must ALWAYS be used with flexible reamers



Universal Chuck with T-Handle  
(17955)

Used to insert the Guide Wire in the medullary canal.



Flexible Shaft Adapter  
(172210)

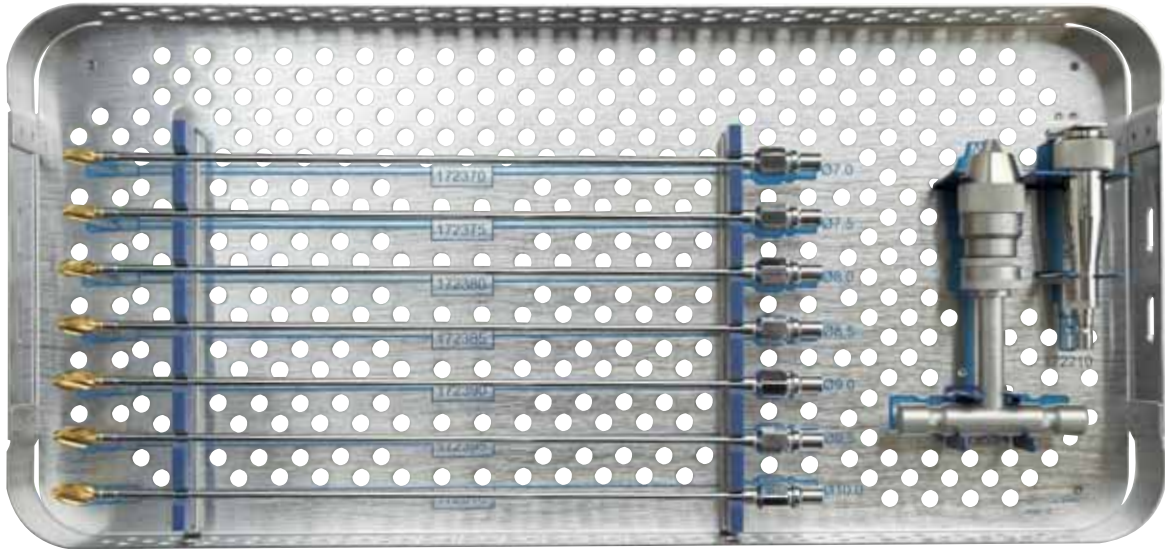
Quick connect fitting to flexible shaft and fits to standard power tools.

## CLEANING, DISINFECTION, STERILISATION AND MAINTAINANCE OF INSTRUMENTATION

Orthofix supplies the Flexible Reamer System NON-STERILE and it therefore must be cleaned before use. The full cleaning, disinfection and sterilisation cycle must be followed before each use, as described in the instructions for use PQ FRS and PQ ISP.

NB: Disassemble all instruments for thorough cleaning and disinfection prior to sterilization.

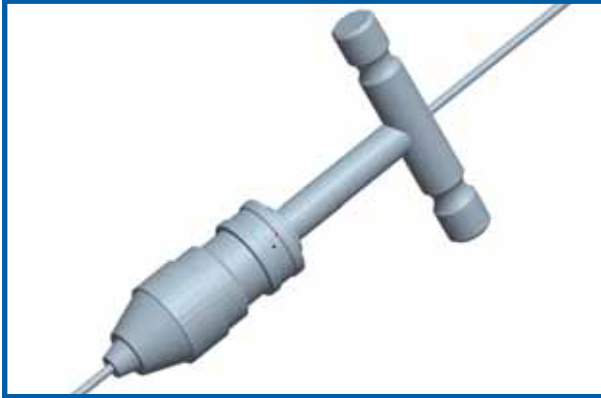
## EQUIPMENT REQUIRED

**172300 Humeral Flexible Reamer System Box, Complete**

Consisting of:

- 1x172996 Humeral Flexible Reamer System Box, empty
- 1x172370 Monobloc Flexible Reamer Ø 7.0 mm
- 1x172375 Monobloc Flexible Reamer Ø 7.5 mm
- 1x172380 Monobloc Flexible Reamer Ø 8.0 mm
- 1x172385 Monobloc Flexible Reamer Ø 8.5 mm
- 1x172390 Monobloc Flexible Reamer Ø 9.0 mm
- 1x172395 Monobloc Flexible Reamer Ø 9.5 mm
- 1x172310 Monobloc Flexible Reamer Ø 10.0 mm
- 1x172210 Flexible Shaft Adapter
- 1x17955 Universal Chuck with T-Handle

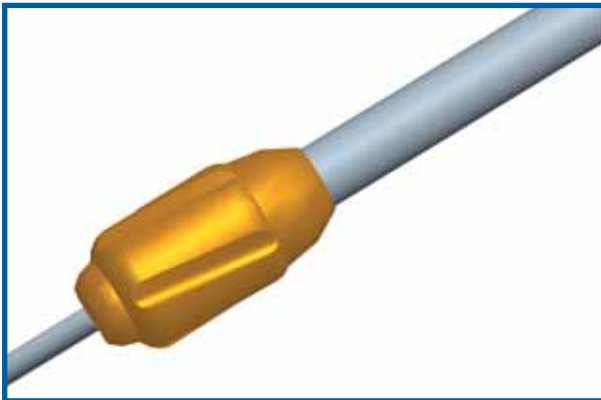
99-178283 Ø 2 mm Guide Wire with Olive, 780 mm long, Sterile



### OPERATIVE TECHNIQUE

Insert the 2.0 mm Guide Wire with Olive (99-178283) down the medullary canal, using an image intensifier to cross the fracture site, and check that the position of the guide wire is correct when fully inserted. The Universal Chuck with T-Handle (17955) may be used to insert the guide wire manually.

Check the position of the guide wire frequently to prevent unintended guide wire advancement and penetration into the surrounding tissues.



The width of the isthmus is determined by pre-operative X-ray examination. The Monobloc Flexible Reamer with the smallest possible diameter is used for initial reaming of the intramedullary canal. Insert the Reamer over the Guide Wire



Insert the Flexible Shaft Adapter (172210) to the Flexible Shaft and attach a standard power tool for reaming.

### INSTRUMENTATION



**99-178283**  
Ø 2.0 mm Guide  
Wire with Olive,  
780 mm long



**17955**  
Universal Chuck  
with T-Handle



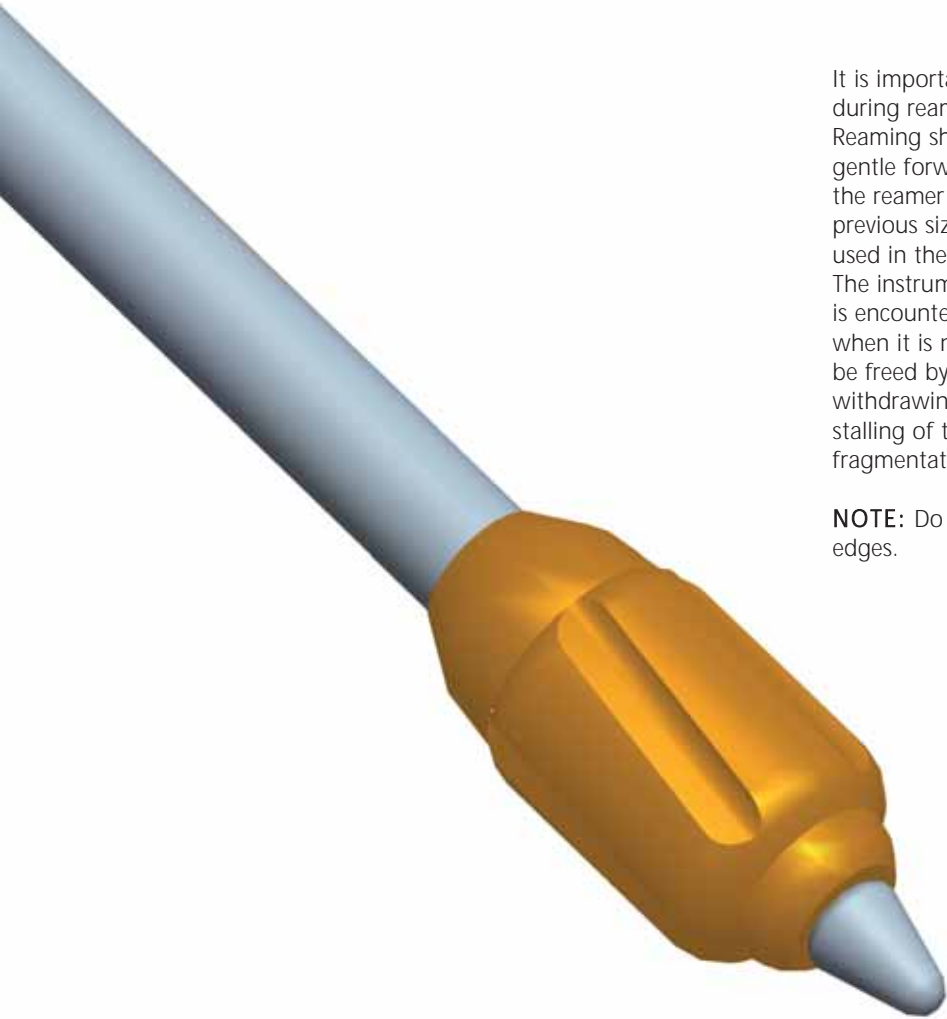
**172210**  
Flexible Shaft  
Adapter

Use the fluoroscope to monitor the advancement of the reaming head. Take care not to withdraw the guide wire when the reamer is extracted, and whenever there is any doubt re-check the position with fluoroscopy before passing the next size reamer. The reamer size should be increased in 0.5mm steps until the desired size is reached.

It is important to avoid exerting too much pressure during reaming, to avoid the risk of fat embolism. Reaming should be performed with a light touch and gentle forward movement. If this is difficult, remove the reamer and clean it, and if necessary pass the previous size reamer. Check that the reamers are being used in the correct order.

The instrument should not be forced when resistance is encountered, and should always be withdrawn when it is not advancing. If jammed, the reamer can be freed by reversing the reamer driver direction and withdrawing from the canal. Excessive torque and/or stalling of the reamer may cause shaft fracture and fragmentation to occur.

**NOTE:** Do not use a cutting instrument that has dull edges.



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