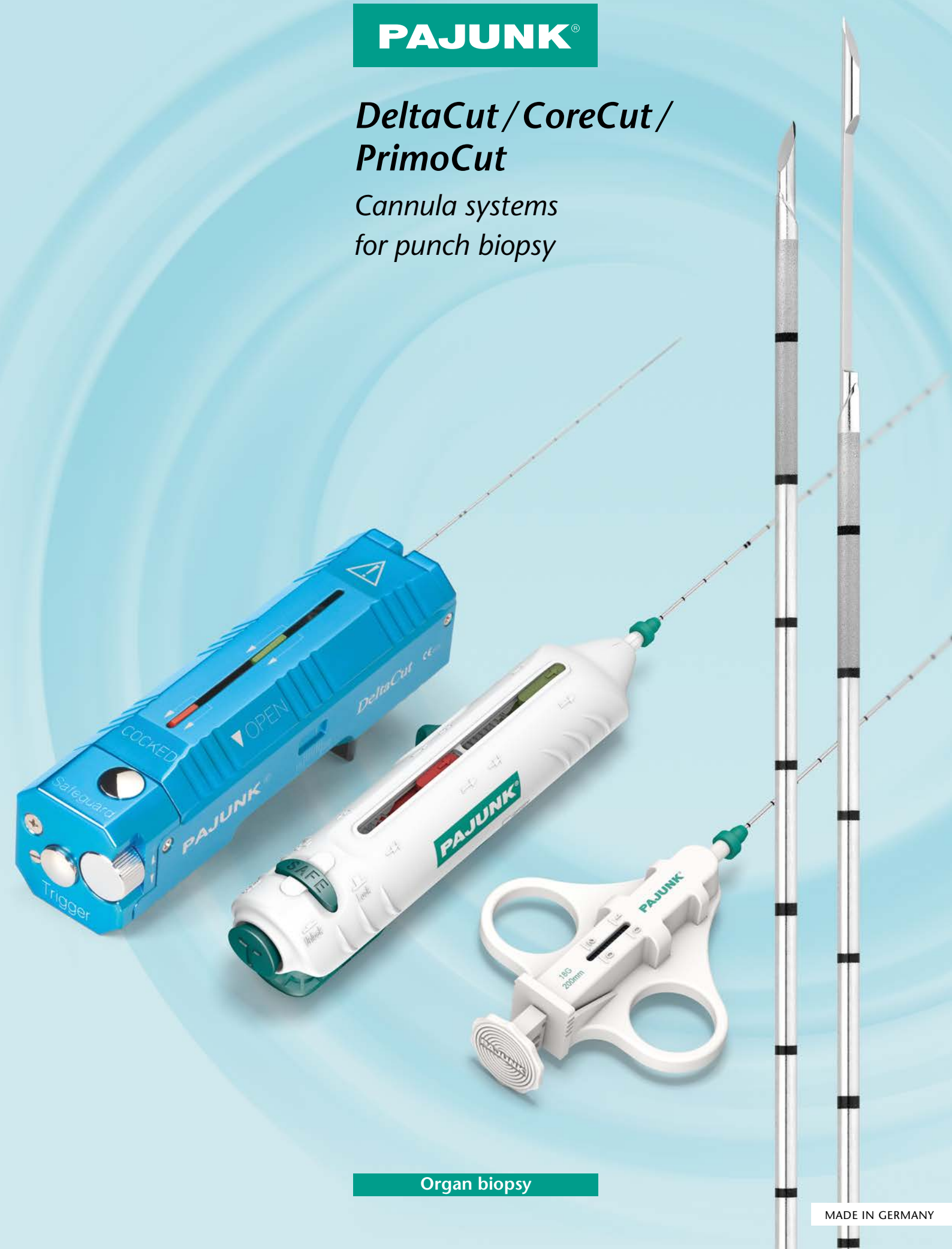
PAJUNK®

DeltaCut / CoreCut / PrimoCut

Cannula systems for punch biopsy



Organ biopsy

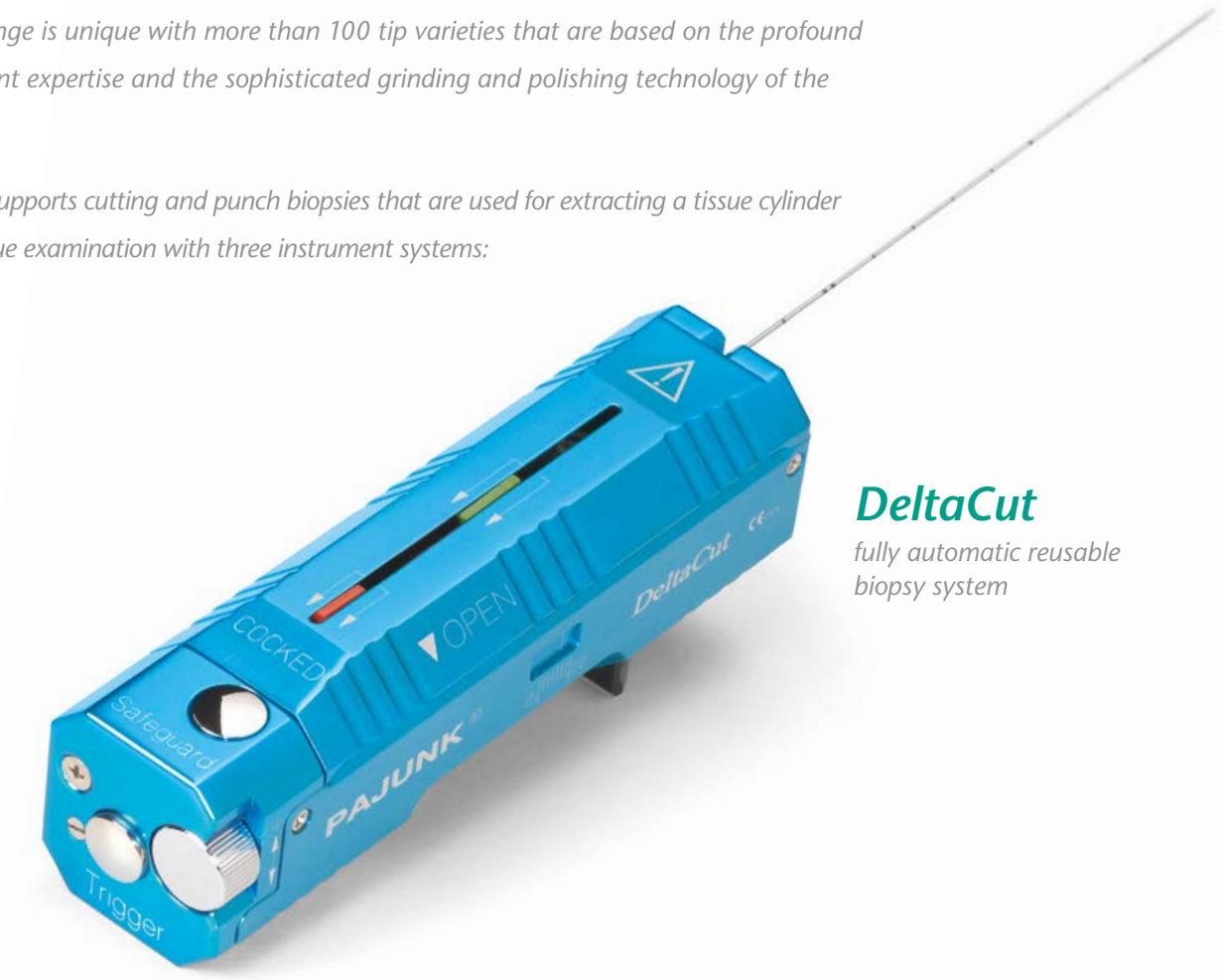
MADE IN GERMANY

DeltaCut, CoreCut and PrimoCut

Cannula systems for punch biopsy

The manufacture of cannula systems for biopsy has been the core competence of PAJUNK® for more than 45 years. Together with health professionals of various medical disciplines, PAJUNK® develops well-conceived solutions for fine needle aspiration, cutting and punch biopsy, bone marrow biopsy, brachytherapy and tumour markers. The wide product range is unique with more than 100 tip varieties that are based on the profound development expertise and the sophisticated grinding and polishing technology of the company.

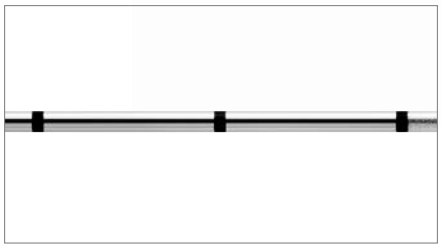
PAJUNK® supports cutting and punch biopsies that are used for extracting a tissue cylinder for fine tissue examination with three instrument systems:



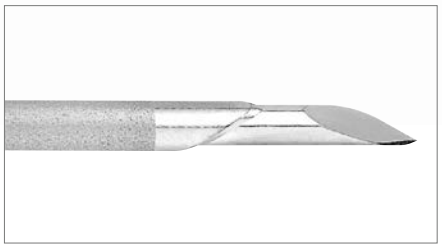
DeltaCut

fully automatic reusable biopsy system

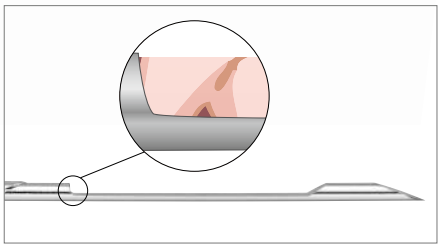
Three systems – one biopsy cannula



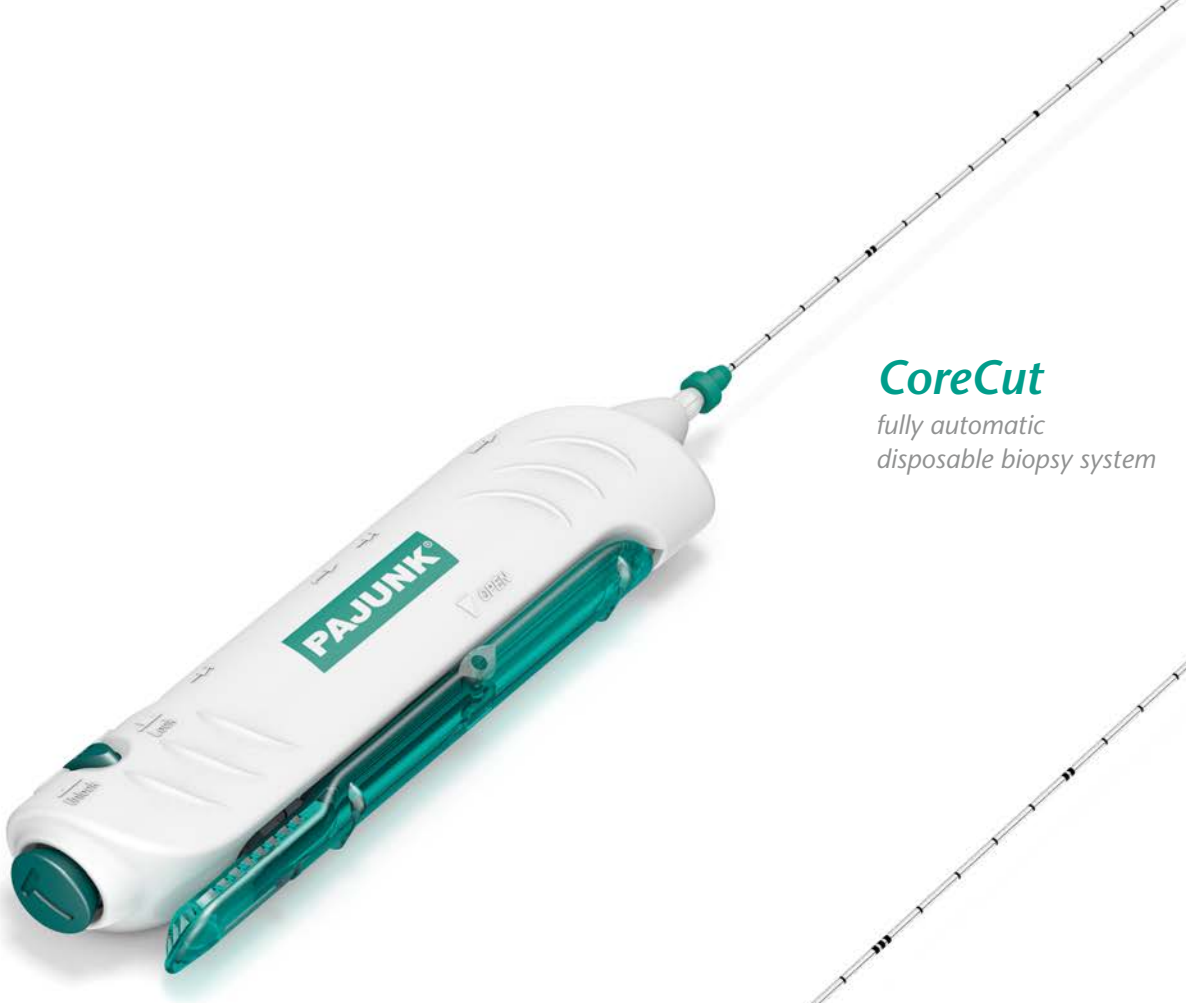
Depth graduation
The cannula has a marking in 1 cm steps.
➡ This enables a simpler determination of the puncture depth.



Sharp grinding
The sharply ground cannula tip is electropolished and graduated.
➡ Minimised tissue deportation.

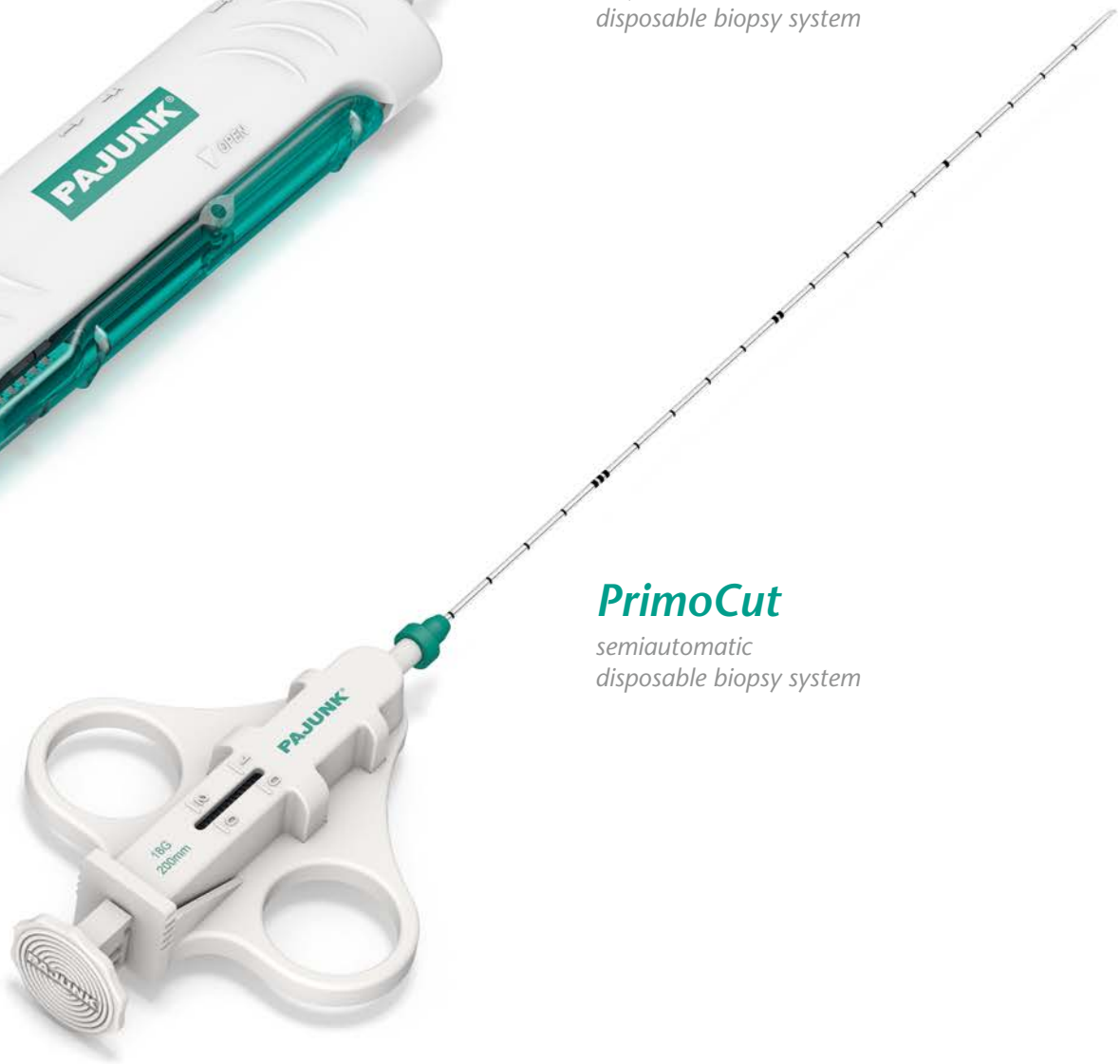


Established process
The PAJUNK® biopsy cannula is equipped with a comparably large biopsy material chamber.



CoreCut

fully automatic
disposable biopsy system



PrimoCut

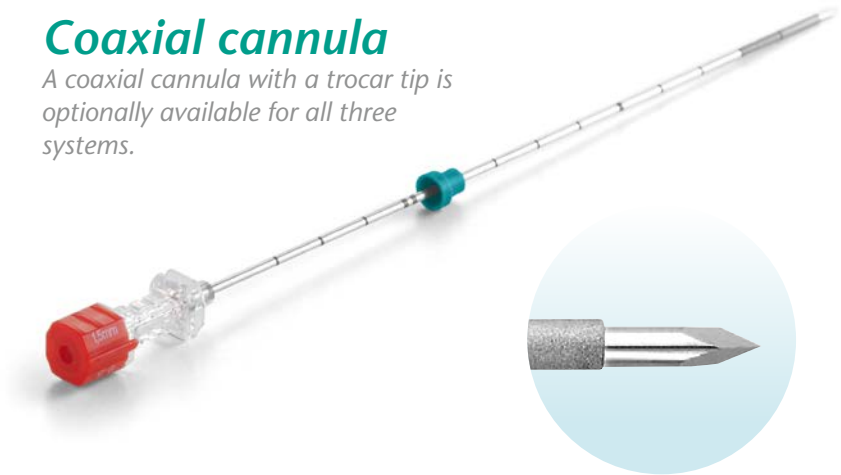
semiautomatic
disposable biopsy system

The essential features at a glance:

- *Precisely ground cannula tip*
- *Very large biopsy material chamber*
- *Automated lock prevents loss of biopsy material*
- *Biopsy material remains in spatial state*

Coaxial cannula

A coaxial cannula with a trocar tip is optionally available for all three systems.



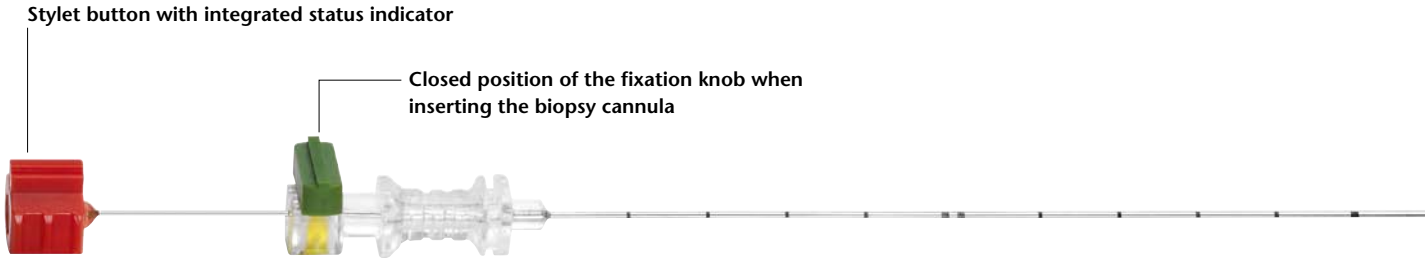
Trocar grinding

DeltaCut

The fully automatic reusable biopsy system

The reusable DeltaCut is the ideal instrument for applications, if one or more tissue samples are taken from a patient in the same intervention. Two triggers allow an ergonomic handling for right- and left-handed persons, completely independent of the puncture position. The puncture depth is infinitely variable on a scale of 15 to 22 mm. The device has an optical and mechanical security system.

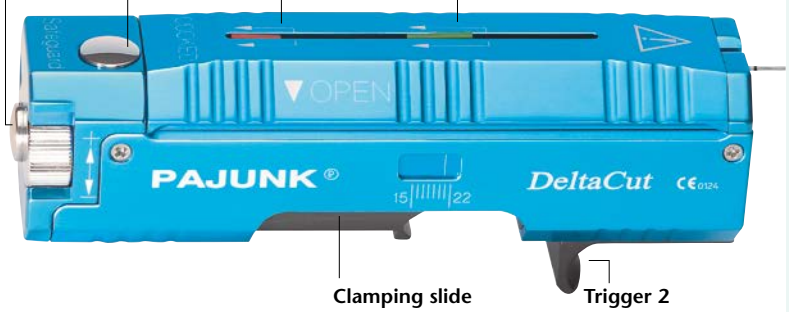
DeltaCut biopsy cannula:



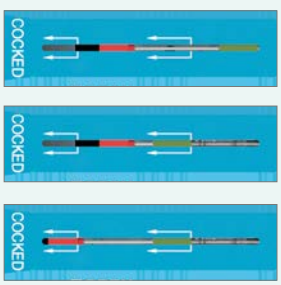
DeltaCut biopsy system (open):

DeltaCut – the biopsy cannula is positioned safely in the holder of the device

DeltaCut biopsy system (closed):



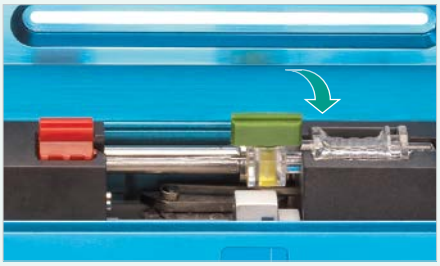
Function status displays
The instrument is ready for use when the status indicator is within the "COCKED" marked area.



1. System completely untightened

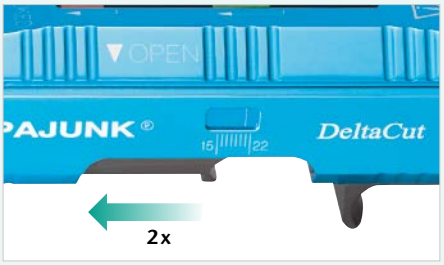
2. Cannula retracted, biopsy chamber open

3. System completely tightened, ready for application



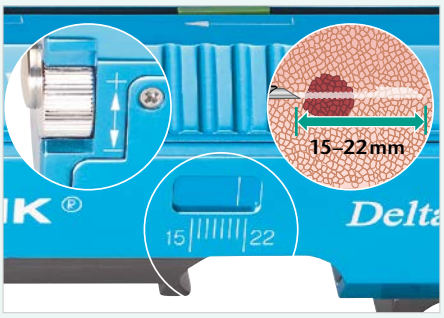
1. Preparing the instrument

Fixation knob is turned counterclockwise by 90° (alignment parallel to the cannula).



2. Tightening the instrument

The black clamping slide is retracted twice up to the stop.



Display scale shows the insertion point

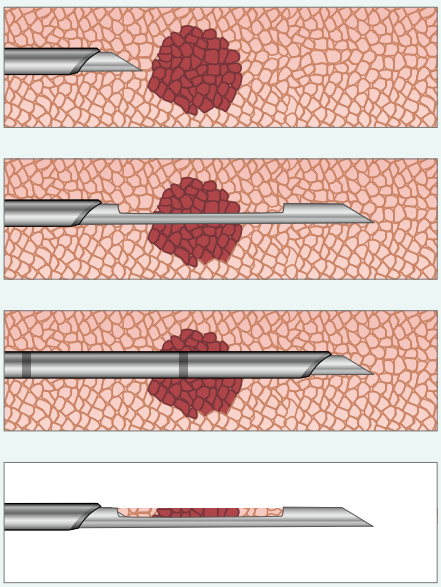
3. Determine the puncture depth

The puncture depth can be determined using the lateral setting wheel within an infinitely variable range of 15 mm and 22 mm.

➡ An individual approach to the anatomic conditions respectively the specific distance from the insertion point and tumour is guaranteed.

4. Release and trigger

Actuate the safety button marked with “Safeguard”. Activate either by using the release button indicated with “Trigger” or alternatively by using trigger 2 (see figure on page 4 below).



5. Extraction of the specimen

5.1. Introduce biopsy cannula by incision – cannula is in the proximal position to the area where the specimen is taken.

5.2. Trigger

The inner cannula advances forward and fills with tissue.

5.3. Protect

The cutting cannula slides over, closing the biopsy chamber and protects the biopsy material from contamination.

5.4. Extraction

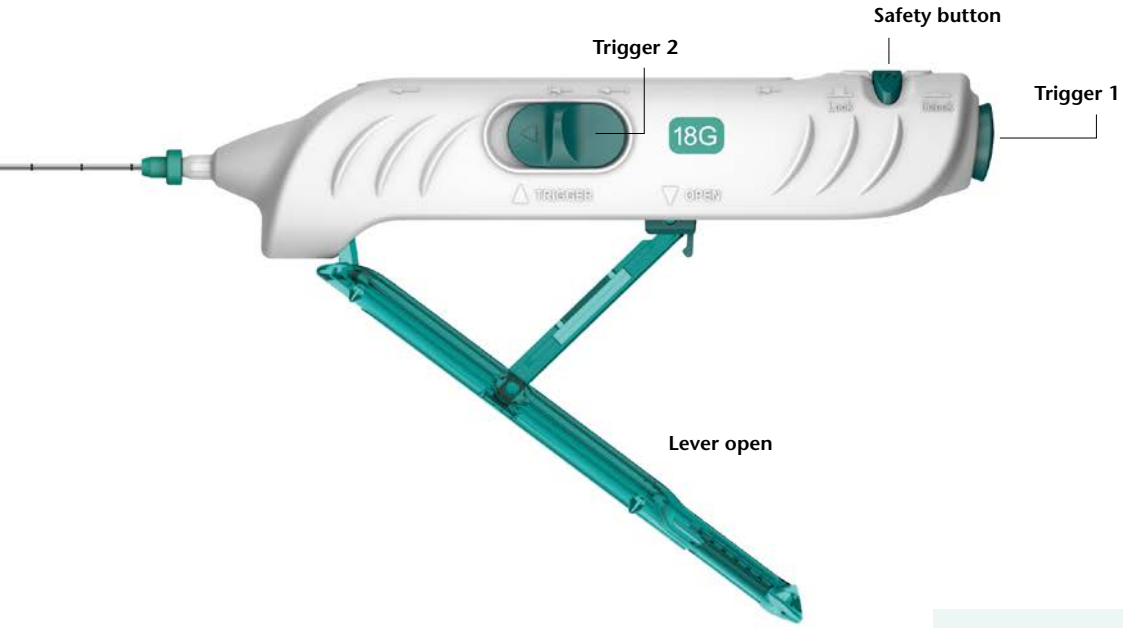
The biopsy material is carefully extracted. This procedure is repeated accordingly for multiple biopsies.

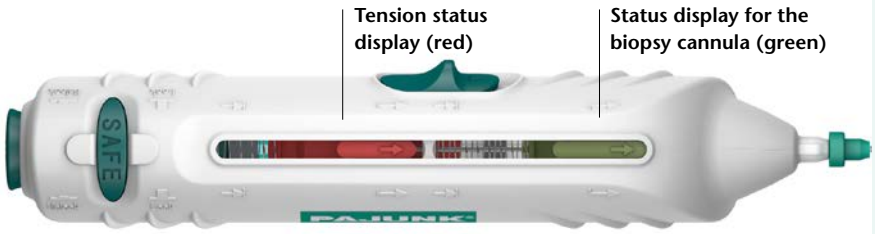
CoreCut

The fully automatic disposable biopsy system

As a fully automatic disposable instrument, CoreCut is suitable wherever one or more tissue samples should be extracted from the same patient. Due to the specific design of the biopsy system, the instrument can be comfortably operated by left- and right-handed persons. The device has an optical and mechanical security system.

CoreCut biopsy system:





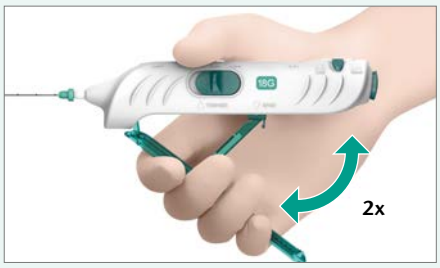
Function status displays

1. System completely untightened

2. Cannula retracted, biopsy chamber open

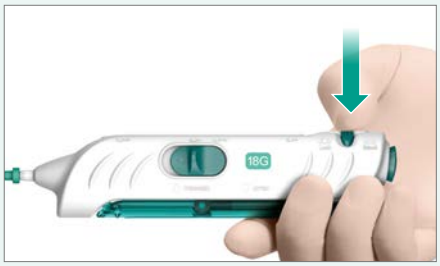
3. System completely tightened, ready for application

Insertion depth is 22 mm



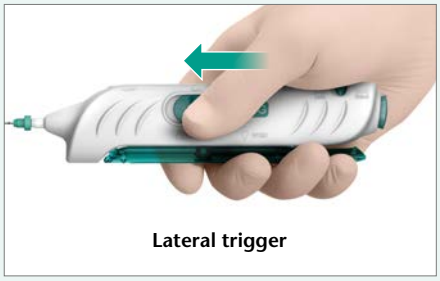
1. Tighten the instrument

The lever is manually completely opened and closed twice.
1. time: The cannula is retracted, the biopsy chamber is open.
2. time: The system is completely tightened and ready for application.

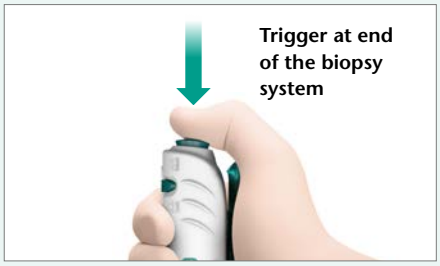


2. Release

Actuate the safety button marked with “SAFE”.

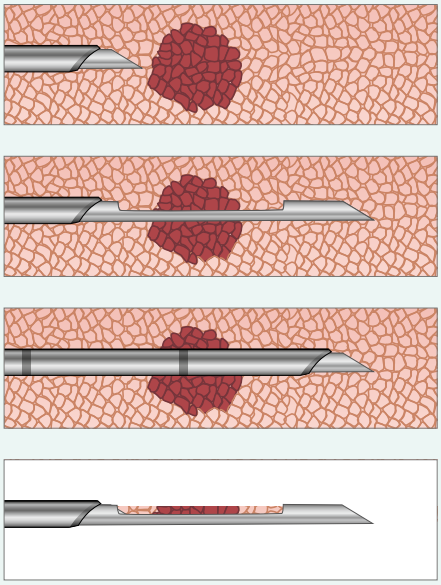


Lateral trigger



3. Trigger

Alternatively activate by using the trigger at the end of the biopsy system or the lateral trigger.



4. Extraction of the specimen

4.1. Introduce cannula through incision
Cannula is in the proximal position in relation to the area where the specimen is taken.

4.2. Trigger
The inner cannula advances forward and fills with tissue.

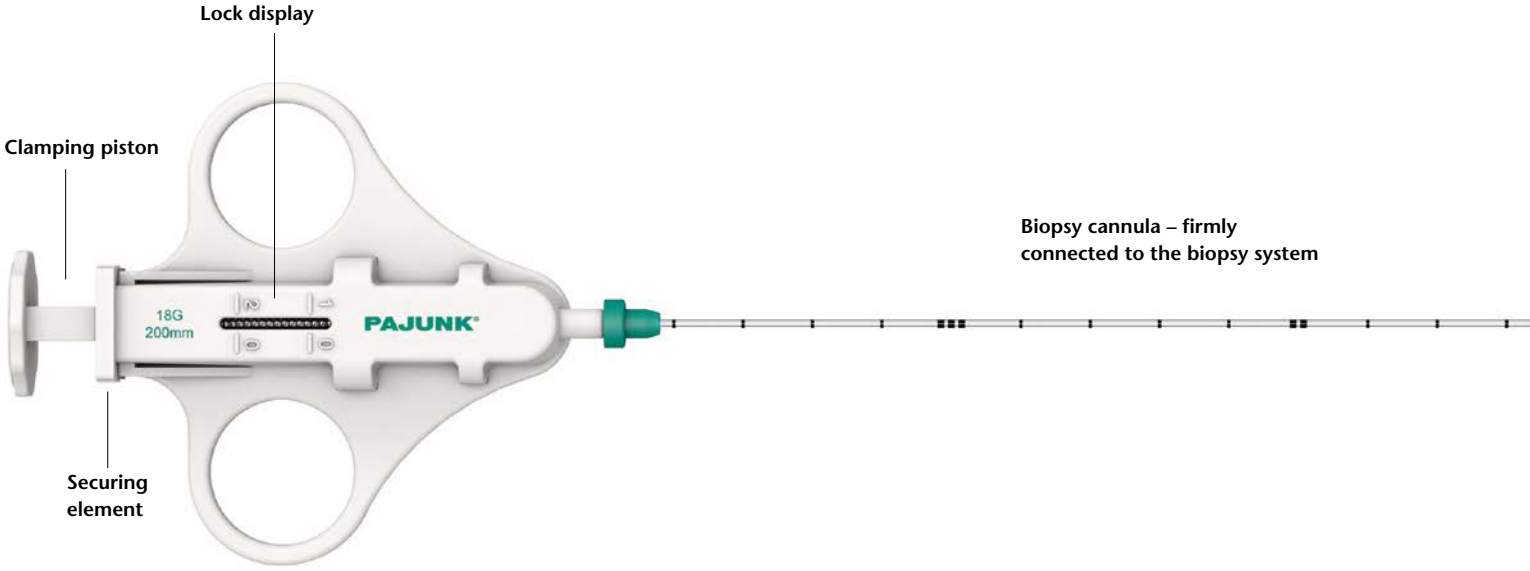
4.3. Protect
The cutting cannula slides over, closing the biopsy chamber and protects the biopsy material from contamination.

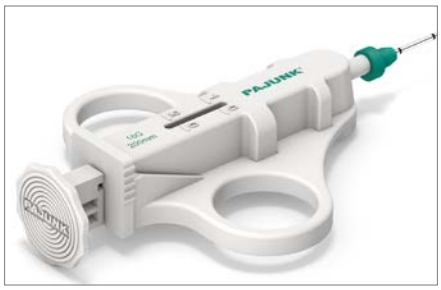
4.4. Extraction
The biopsy material is carefully extracted. This procedure is repeated accordingly for multiple biopsies.

PrimoCut

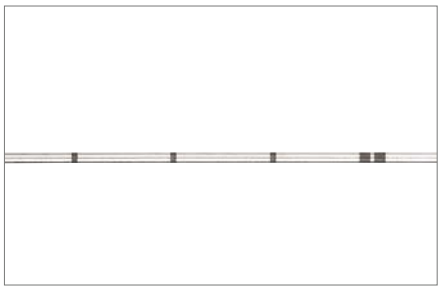
The semiautomatic disposable biopsy system

The semi-automatic disposable biopsy system PrimoCut is suitable for applications in which one or more tissue samples are taken from a patient in the same intervention. It is used for biopsy of soft tissues such as the prostate, kidneys, liver, and a wide range of soft tissue tumours. Two different puncture depths of 10 mm or 20 mm can be selected depending on the desired size of the biopsy material.

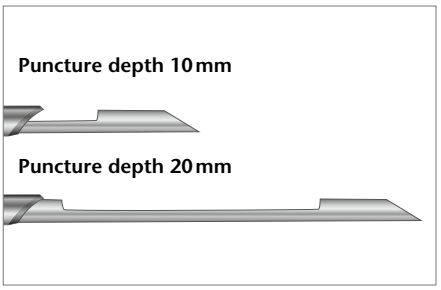




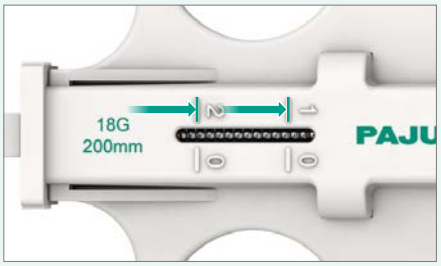
Securing mechanism
Prevents unintentional system initiation.
➡ Increased user safety.



Depth graduation
Marking of the cannula in 1 cm steps to determine the puncture depth.
➡ Prevents injuries from subjacent structures.

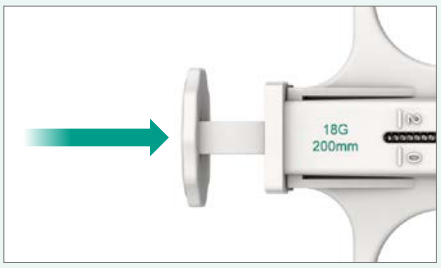


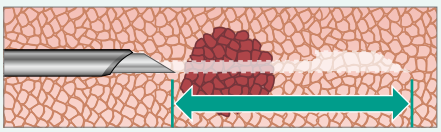
Adjustable puncture depth
Choose between 10 and 20 mm.
➡ Very good basis for historical examinations.



1. Determine the size of the biopsy material

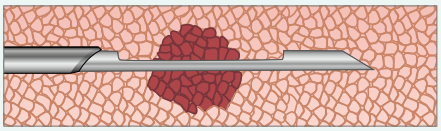
Depending on the desired size, the piston of the biopsy system is tighened to the first (10 mm) or second lock-in position (20 mm).
The securing element is removed before triggering.

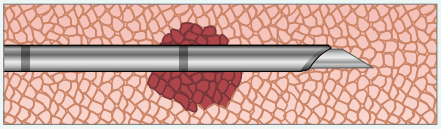




2. Puncture

The inner cannula is advanced manually until resistance so that it opens for puncture.





3. Trigger

Exerting repeated pressure on the clamping piston automatically causes the outer cannula to slide over the lateral opening of the inner cannula.

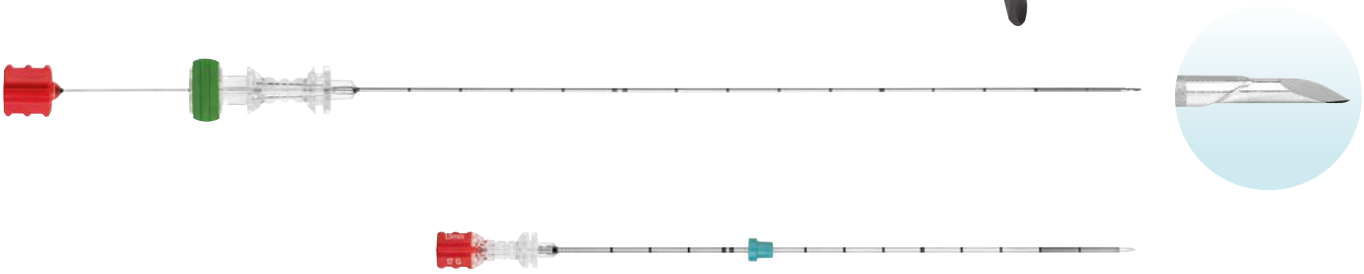
4. Extraction

The tissue sample can be removed in protected condition.
This procedure is repeated accordingly for multiple biopsies.

The systems at a glance

DeltaCut

Product	Art. No.	PU
DeltaCut biopsy system	304B000001	1

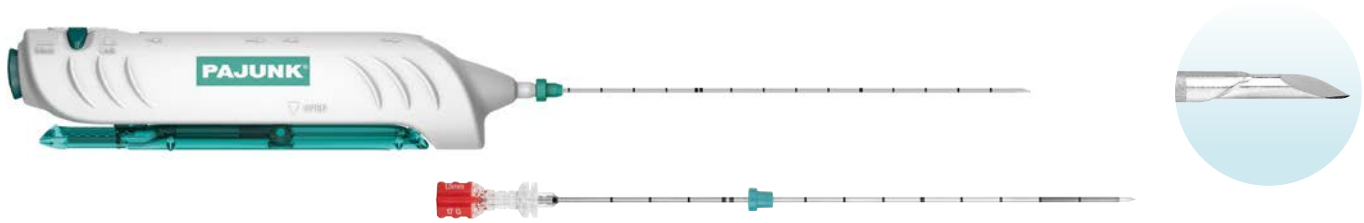


Product	Size	Art. No.	PU
DeltaCut biopsy cannulas, sterile	18 G x 100 mm (1,20 mm)	315S120100	10
	18 G x 150 mm (1,20 mm)	315S120150	10
	18 G x 200 mm (1,20 mm)	315S120200	10
	18 G x 250 mm (1,20 mm)	315S120250	10
	18 G x 280 mm (1,20 mm)	315S120280	10
	16 G x 100 mm (1,60 mm)	315S160100	10
	16 G x 150 mm (1,60 mm)	315S160150	10
	16 G x 200 mm (1,60 mm)	315S160200	10
	14 G x 100 mm (2,10 mm)	315S210100	10
	14 G x 150 mm (2,10 mm)	315S210150	10

Suitable coaxial cannula

Size	Art. No.	PU
17 G x 44 mm	313S150014	25
17 G x 94 mm	313S150064	10
17 G x 144 mm	313S150114	10
14 G x 44 mm	313S200014	25
14 G x 94 mm	313S200064	10
13 G x 44 mm	313S250014	25

CoreCut

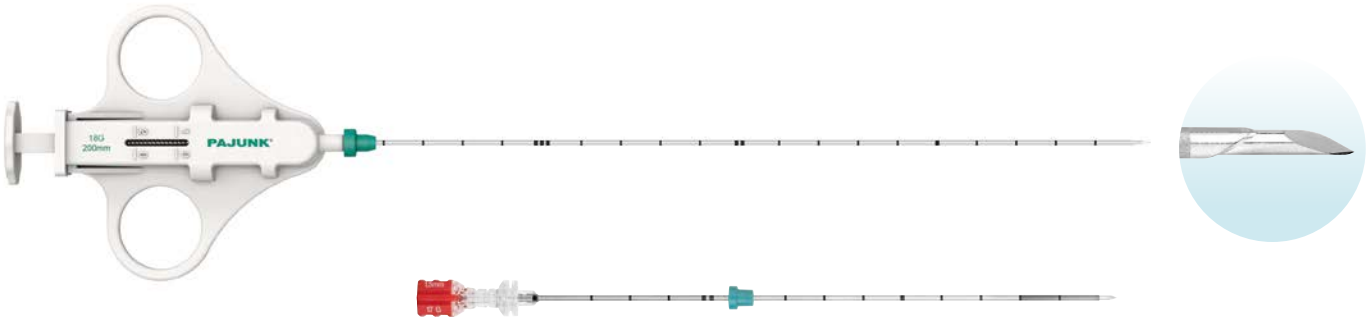


Product	Size	Art. No.	PU
CoreCut, sterile	18 G x 100 mm (1.20 mm)	515S120100	5
	18 G x 150 mm (1.20 mm)	515S120150	5
	18 G x 200 mm (1.20 mm)	515S120200	5
	18 G x 250 mm (1.20 mm)	515S120250	5
	16 G x 100 mm (1.60 mm)	515S160100	5
	16 G x 150 mm (1.60 mm)	515S160150	5
	16 G x 200 mm (1.60 mm)	515S160200	5
	14 G x 100 mm (2.10 mm)	515S210100	5
	14 G x 150 mm (2.10 mm)	515S210150	5

Suitable coaxial cannula

Size	Art. No.	PU
17 G x 98 mm	413S150112	10
17 G x 162 mm	413S150162	10
14 G x 98 mm	413S200112	10

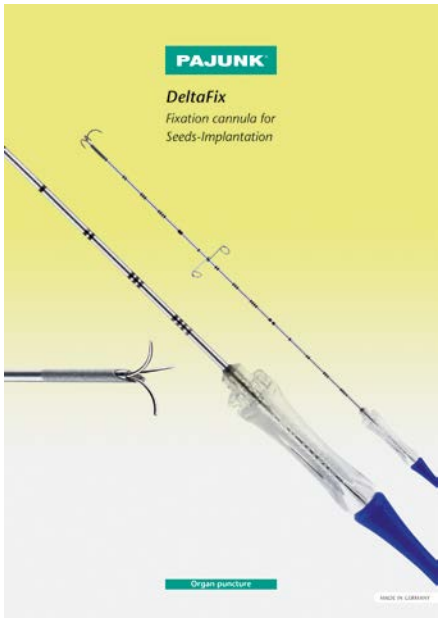
PrimoCut



Product	Size	Art. No.	PU
PrimoCut, sterile	18 G x 100 mm (1,20 mm)	415S120100	10
	18 G x 150 mm (1,20 mm)	415S120150	10
	18 G x 200 mm (1,20 mm)	415S120200	10
	18 G x 250 mm (1,20 mm)	415S120250	10
	18 G x 280 mm (1,20 mm)	415S120280	10
	16 G x 100 mm (1,60 mm)	415S160100	10
	16 G x 150 mm (1,60 mm)	415S160150	10
	16 G x 200 mm (1,60 mm)	415S160200	10

Suitable coaxial cannula

Size	Art. No.	PU
17 G x 98 mm	413S150112	10
17 G x 162 mm	413S150162	10
14 G x 98 mm	413S200112	10



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XS200158C 03/18