

PAJUNK®

*DeltaCut / CoreCut /
PrimoCut*

*Cannula systems for
gentle punch biopsy*



Organ biopsy

DeltaCut, CoreCut and PrimoCut Cannula systems for punch biopsy

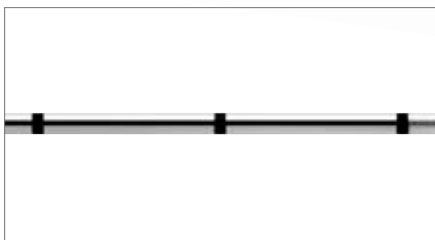
The manufacture of cannula systems for biopsy has been the core competence of PAJUNK® for more than 45 years. Together with doctors from different fields, PAJUNK® develops sophisticated solutions for fine-needle biopsy, cutting and punch biopsy, bone marrow biopsy, brachytherapy and tumour markers. The wide range of products is unique with over 100 varieties of tip 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 to attain a tissue cylinder for fine tissue examination with three instrument systems:



CoreCut
fully automatic
single-use biopsy system

Three systems – one biopsy cannula



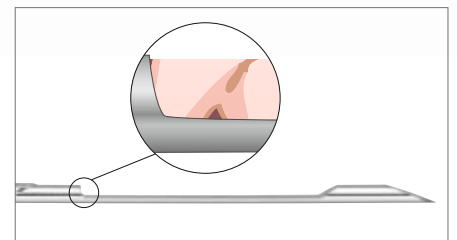
Depth graduation

The cannula has a marking in 1 cm steps.
➔ This enables a simple determination of the puncture depth.



Sharp and safe: The tip

The sharply ground cannula tip is electropolished and graduated.
➔ The cannula optimally cuts when penetrating into tissue – tissue displacement is prevented.



Larger amount of biopsy material

The PAJUNK® biopsy cannula is equipped with a comparably large biopsy material chamber.
➔ The best requirements for an optimal biopsy result.



DeltaCut

fully automatic reusable
biopsy system



PrimoCut

semiautomatic
single-use 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.



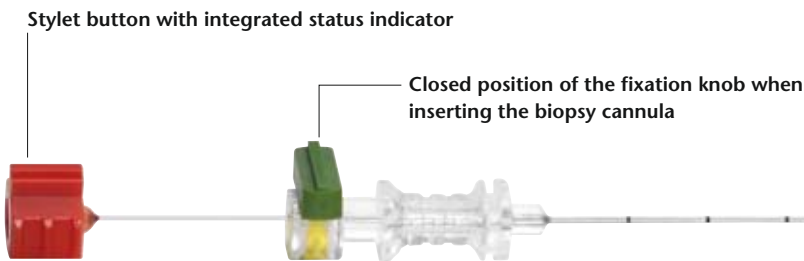
Trocar tip

DeltaCut

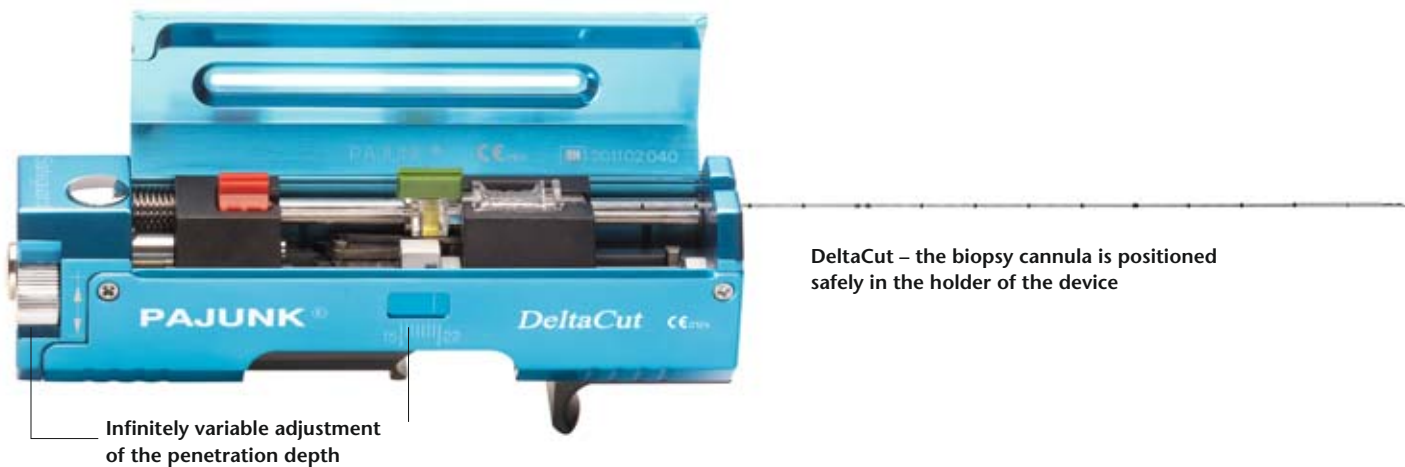
The fully automatic reusable biopsy system

The reusable DeltaCut is the ideal instrument for applications for which one or more tissue samples can be taken from a patient as part of the same intervention. Two actuators allow for ergonomic handling for right-handed and left-handed persons completely independent of the position of the puncture. The puncture depth can be set infinitely variable on a scale of 15 to 22 mm. The device has an optical and mechanical safeguard system.

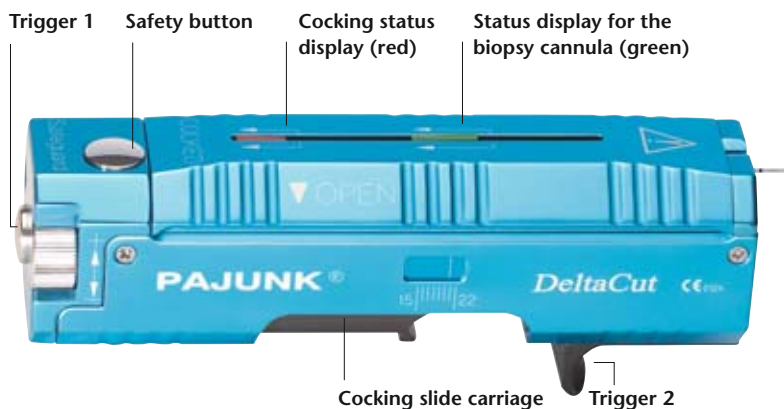
DeltaCut biopsy cannula:



DeltaCut biopsy system (open):

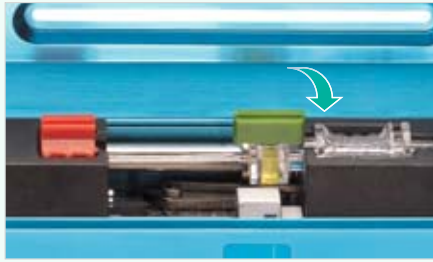


DeltaCut biopsy system (closed):



Function status displays
When the red status display is in the area marked "COCKED", the instrument is ready for use.

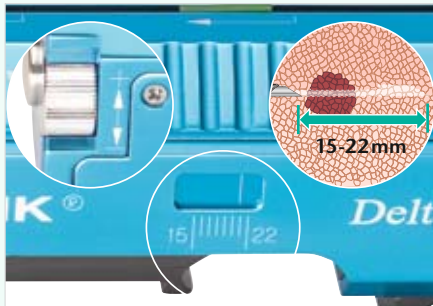
1. System completely uncocked/relaxed
2. Cannula retracted, biopsy material chamber open
3. System completely cocked, ready for application



1. Preparation of the instrument
 Fixation knob is turned 90° anti-clockwise (orientation parallel to the cannula).

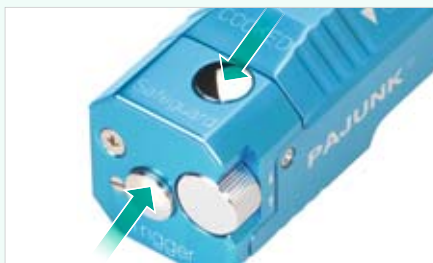


2. Cock the Instrument
 The black cocking slide carriage is retracted twice up to the stop.

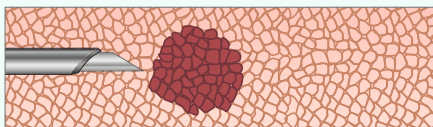


3. Determine the puncture depth
 The puncture depth can be determined using the lateral setting wheel within an infinitely variable range of 15 mm and 22 mm.
 ➔ An individual approach to the anatomic conditions and the specific distance from the insertion point and tumour is guaranteed.

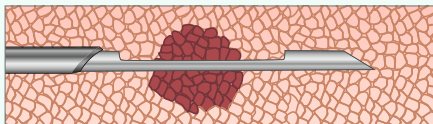
Display scale shows the insertion point



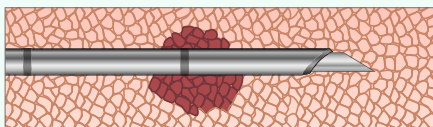
4. Release and trigger
 Actuate the safety button marked with "Safeguard". Either actuate using the release button indicated with Trigger or alternatively using trigger 2. (see figure on page 4 below)



5. Extraction of biopsy material
5.1. Introduce biopsy cannula by incision – cannula is in the proximal position in relation to the area where the biopsy is to be performed.



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



5.3. Protect
 The cutting cannula moves over closing the chamber for biopsy material and protects the biopsy material from contamination.



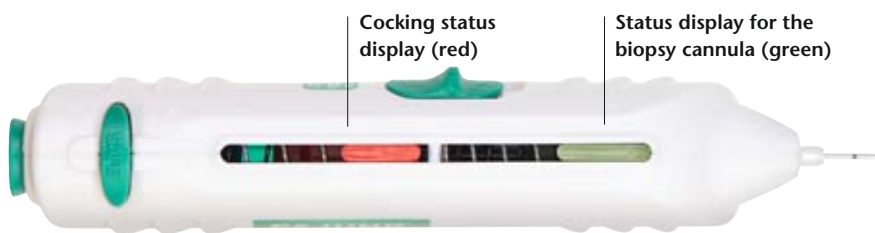
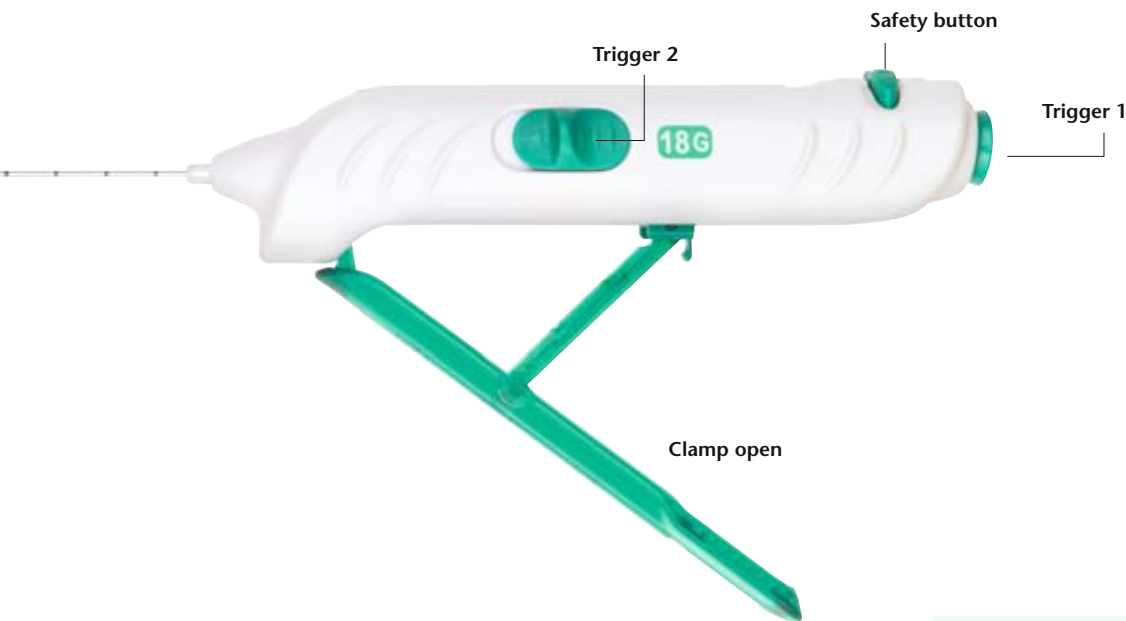
5.4. Extraction
 The biopsy material is carefully extracted. This procedure is repeated accordingly for multiple biopsies.

CoreCut

The fully automatic single-use biopsy system

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

CoreCut biopsy system:



Function status displays



1. System completely uncocked/relaxed



2. Cannula retracted, biopsy material chamber open



3. System completely cocked, ready for application



1. Cock the Instrument

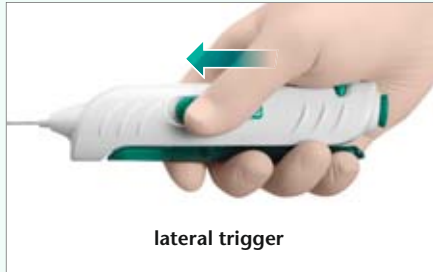
The clamp is completely manually opened and closed twice.

- 1. time: The cannula is retracted, the biopsy material chamber is open
- 2. time: The system is completely cocked and ready for application



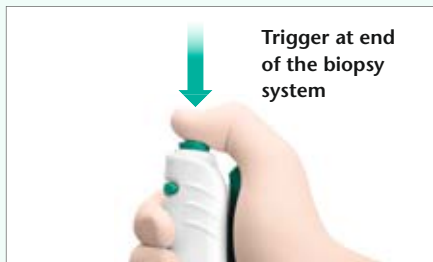
2. Release

Actuate the safety button marked with "SAFE".

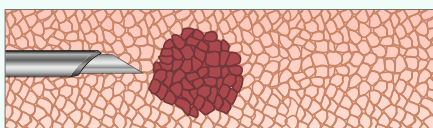


3. Trigger

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



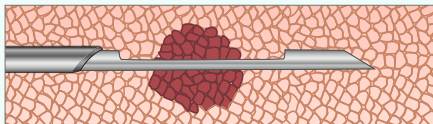
Insertion depth is 22mm



4. Extraction of biopsy material

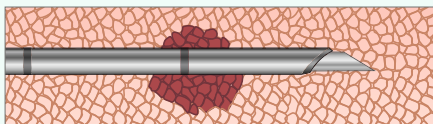
4.1. Introduce cannula through incision

Cannula is in the proximal position in relation to the area where the biopsy is to be performed.



4.2. Trigger

The inner cannula advances forward and fills with tissue.



4.3. Protect

The cutting cannula moves over closing the chamber for biopsy material and protects the biopsy material from contamination.



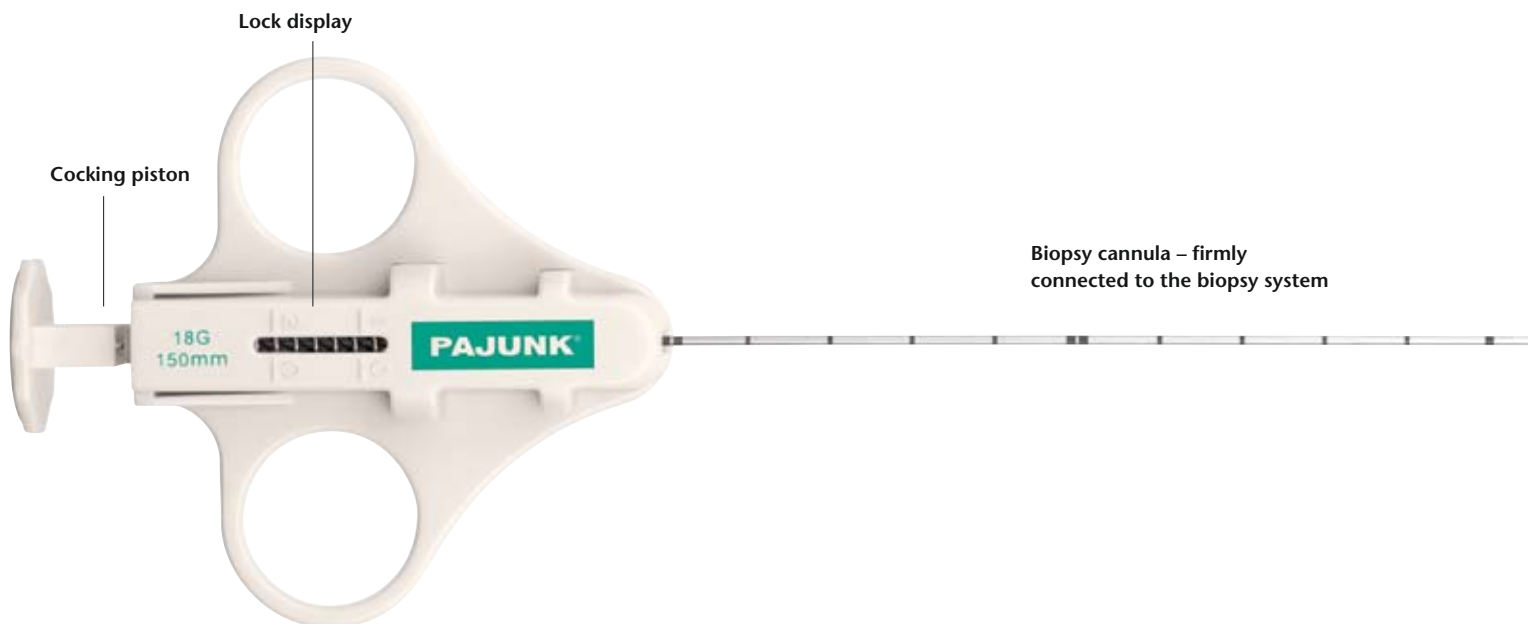
4.4. Extraction

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

PrimoCut

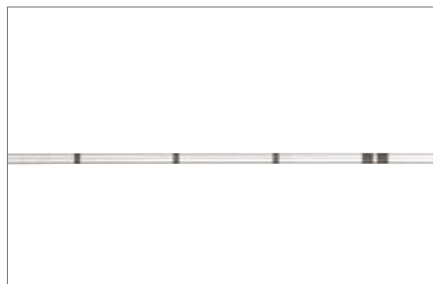
The semiautomatic single-use biopsy system

The semiautomatic single-use PrimoCut biopsy system is a safe and efficient instrument for the biopsy of soft tissue such as the prostate gland, kidney, liver and a variety of soft tissue tumours. Two different penetration depths of 10 mm or 20 mm can be selected depending on the desired size of the biopsy material.



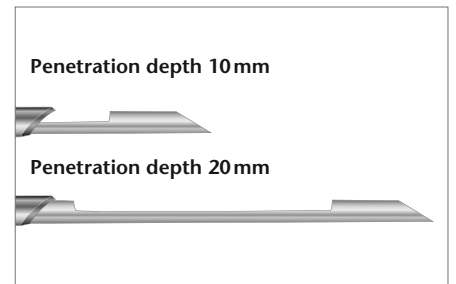
Securing mechanism

Inadvertent triggering of the system is not possible
➔ increased user safety



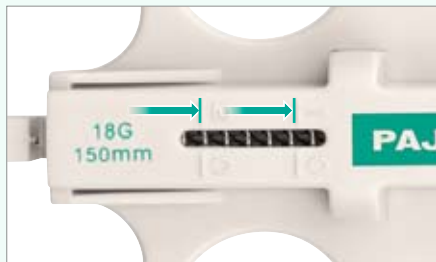
Depth graduation

Marking of the cannula in 1 cm steps to determine the puncture depth
➔ prevents injuries from surrounding structures



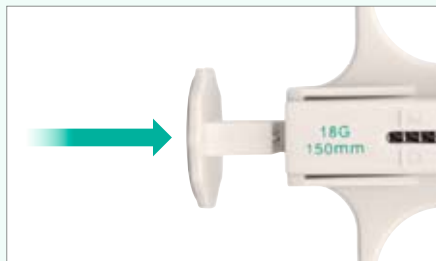
Adjustable penetration depth

Choose between 10 and 20 mm
➔ very good basis for histological examinations



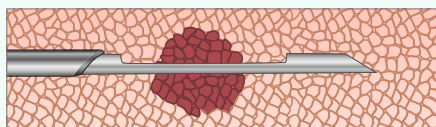
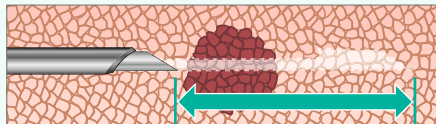
1. Determine the size of the biopsy material

The piston of the biopsy system is cocked all the way to the first (10 mm) or second engagement notch (20 mm) depending on the desired size of the biopsy.



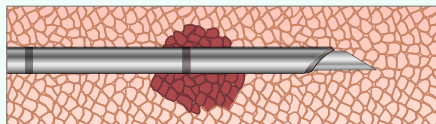
2. Puncture

The inside cannula is advanced forward manually, so that it will be opened for the aspiration.



3. Trigger

Depressing the cocking piston will automatically slip the outer cannula over the lateral opening of the inside cannula.



4. Extraction

The tissue sample can be removed in the protected condition.

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

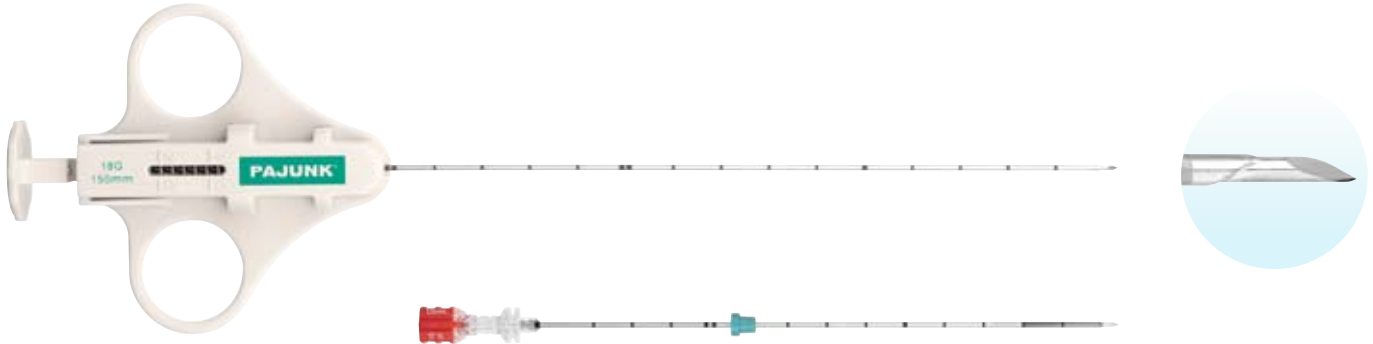
Size	Art. No.	PU
17 G x 44 mm	313S150014	25
17 G x 94 mm	313S150064	10
17 G x 144 mm	313S150114	10
14 G x 44 mm	313S200014	25
14 G x 94 mm	313S200064	10
13 G x 44 mm	313S250014	25

CoreCut



Product	Size	Art. No.	PU
CoreCut, sterile	18 G x 150 mm (1,20 mm)	515S120150	1
	18 G x 200 mm (1,20 mm)	515S120200	1
	18 G x 250 mm (1,20 mm)	515S120250	1
	16 G x 150 mm (1,60 mm)	515S160150	1
	16 G x 200 mm (1,60 mm)	515S160200	1
	14 G x 100 mm (2,10 mm)	515S210100	1
	14 G x 150 mm (2,10 mm)	515S210150	1

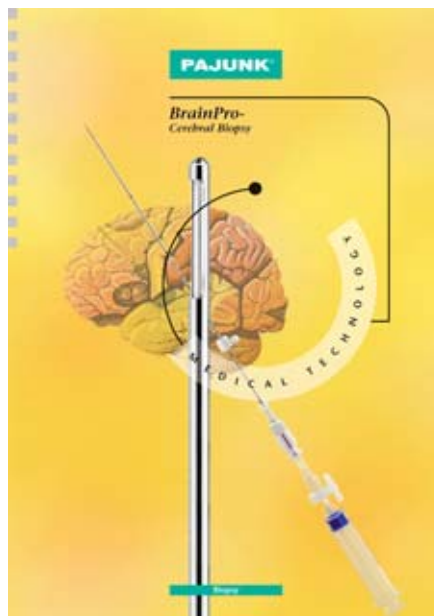
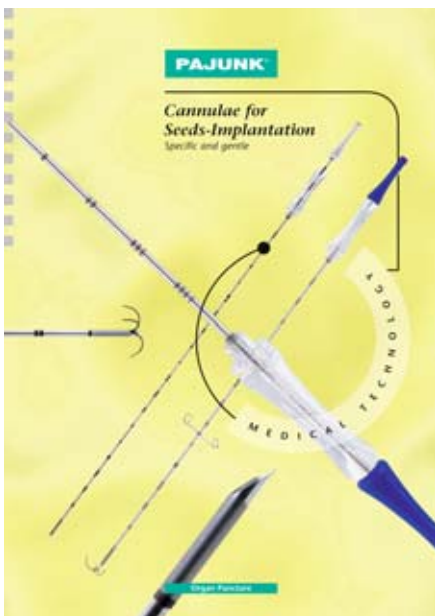
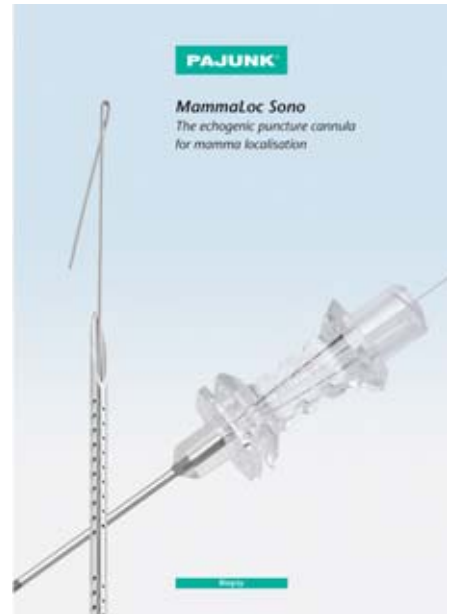
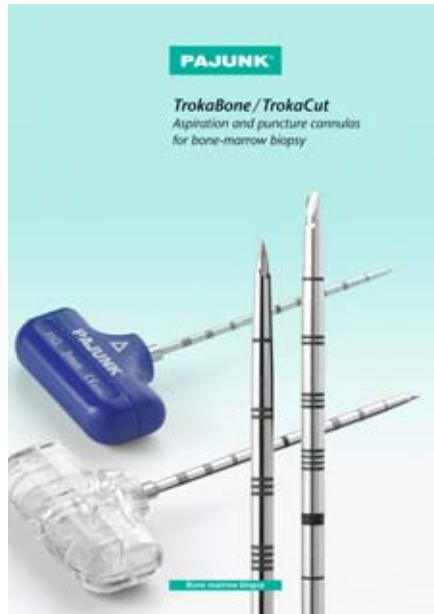
PrimoCut



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

Suitable coaxial cannula

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



PAJUNK GmbH
 Medizintechnologie
 Karl-Hall-Strasse 1
 D-78187 Geisingen/Germany
 Telefon +49 (0) 77 04/92 91-0
 Telefax +49 (0) 77 04/92 91-6 00
 www.pajunk.com