

**PAJUNK®**

## *DeltaCut/PrimoCut*

*Cannula systems for  
gentle punch biopsy*



Organ biopsy

## *PrimoCut and DeltaCut*

# **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 two instrument systems:

- The **PrimoCut** semiautomatic single use biopsy system
- and the **DeltaCut** fully automatic reusable biopsy system.

· A **coaxial cannula** with a trocar tip is optionally available for both systems.

The cannulas are characterised by their precise tip and sophisticated functionality of the actuation mechanism. They function quickly and gently and reduce pain for the patient to a minimum. The fields of application include the extraction of samples from soft tissue such as the prostate gland, liver and kidneys.



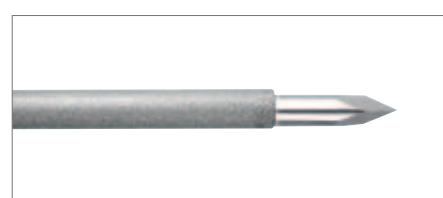


## *DeltaCut*

*fully automatic reusable  
biopsy system*



## *Coaxial cannula*



### **Depth graduation and depth stop**

Marking of the cannula in 1 cm steps to determine the puncture depth

➔ prevents injuries from surrounding structures

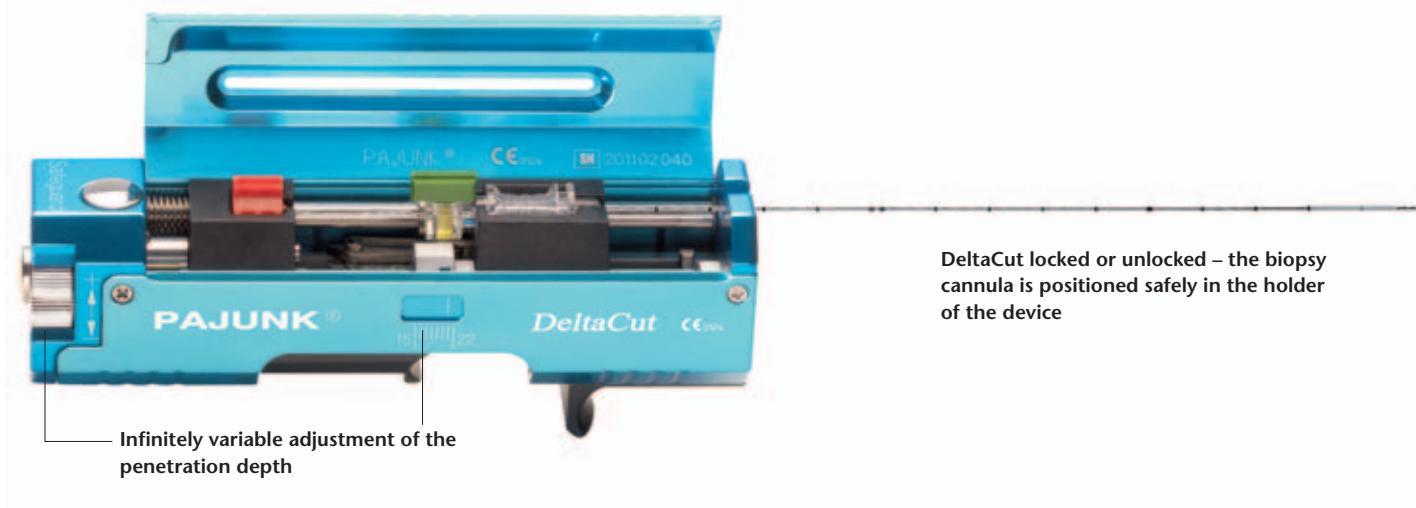
### **Trocar tip**

## *DeltaCut*

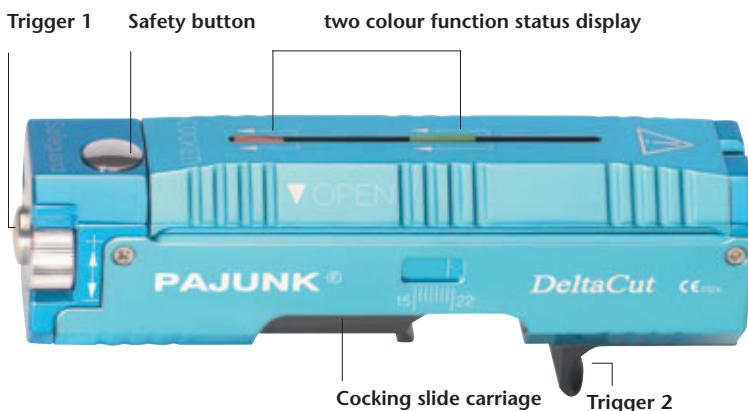
# *The fully automatic reusable biopsy system*

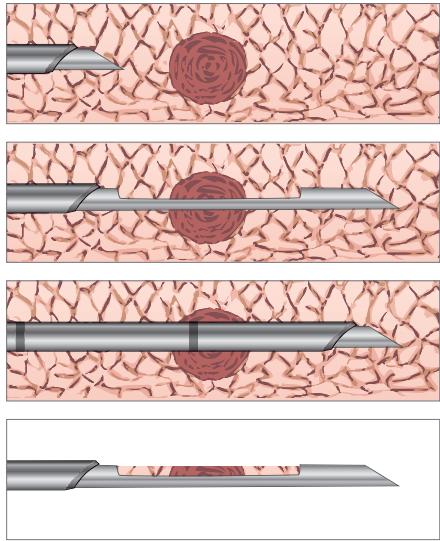
The fully automatic DeltaCut biopsy system from PAJUNK® has been specially developed for the extraction of single and multiple biopsy material for soft tissues such as the prostate gland, kidneys, liver and a variety of soft tissue tumours. Its use is extremely purposeful, precise and fast. The device has an optical and mechanical fallback system. Two actuators allow for ergonomic handling for right-handed and left-handed persons completely independent of the position of the sampling point. The puncture depth can be set infinitely variable on a scale of 15 to 22 mm. The amount of biopsy material is clearly increased for DeltaCut when compared with conventional cannulas.

**DeltaCut actuating mechanism (open):**



**DeltaCut actuating mechanism (closed):**





### 1. Introduction of the biopsy cannula

### 2. Trigger

The inner cannula advances forward and fills with tissue.

### 3. Protect

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

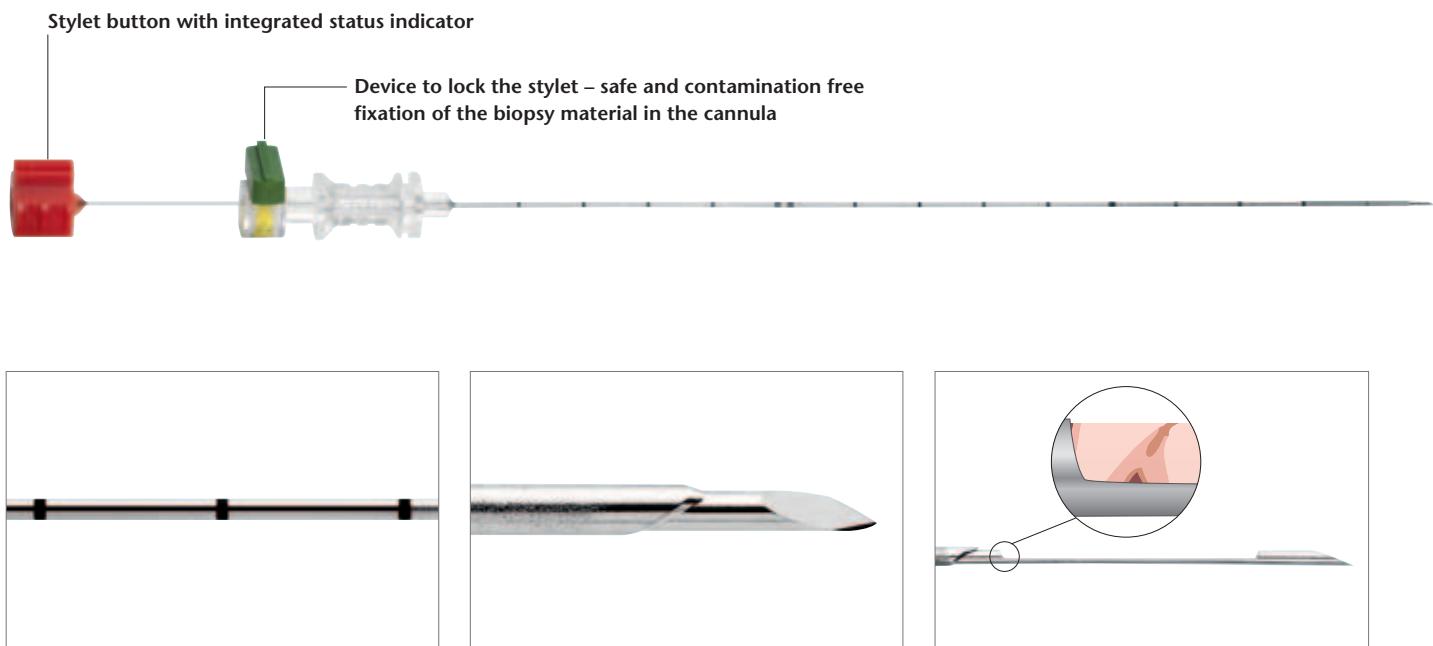
### 4. Extraction

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

### ***The essential features at a glance:***

- precisely ground cannula tip
- very large biopsy material chamber
- automated lock prevents loss of biopsy material
- sample remains in spatial state

### DeltaCut biopsy cannula:



### Depth graduation

Marking of the cannula in 1 cm steps  
→ simple determination of the puncture depth

### Surface condition of the first 2cm

→ improved identification of the cannula tip under ultrasound

### DeltaCut tip

DeltaCut tip for increased sharpness and guaranteed safety  
→ precise and sharply ground cannula tip, electropolished and graduated  
→ optimum cutting behaviour of the cannula when penetrating into tissue  
→ no tissue displacement

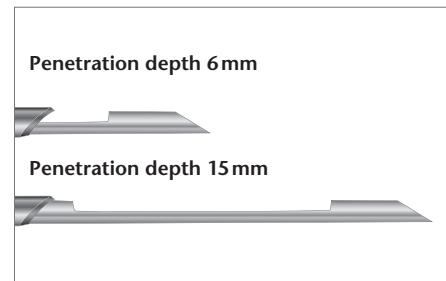
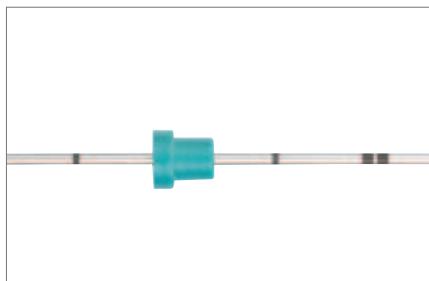
### Large biopsy material chamber

- optimum biopsy result
- considerably larger amount of biopsy material with DeltaCut biopsy cannulas

## **PrimoCut**

# **The single use biopsy system**

The semiautomatic single use PrimoCut cannula system is a safe and efficient instrument for the biopsy of soft tissue such as the prostate gland, kidneys, liver and a variety of soft tissue tumours. Two different penetration depths of 6 mm or 15 mm can be selected depending on the desired size of the biopsy material. The cannula is permanently connected to the actuating mechanism for PrimoCut when compared with the DeltaCut multiple use biopsy system. This cost effective alternative is completely disposed of after use.



### **Securing mechanism**

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

### **Depth graduation and depth stop**

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

### **Adjustable penetration depth**

Choose between 6 and 15 mm  
→ very good basis for historical examinations



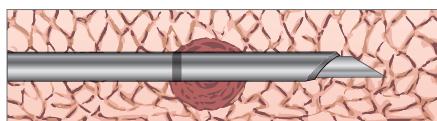
### 1. Determine the size of the biopsy material

The piston of the biopsy system is cocked all the way to the first (6mm) or second engagement notch (15 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 aspiration.



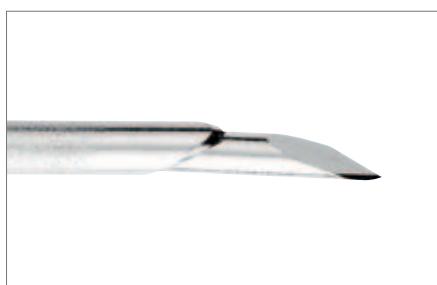
### 3. Trigger

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 benefits of PAJUNK® PrimoCut at a glance:***

- ➔ simple, ergonomic operation with one hand
- ➔ alternative penetration depths of 6 or 15 mm
- ➔ the cannula tip of PrimoCut is precisely ground, specially polished and graduated
- ➔ large biopsy material allows for precise diagnostics
- ➔ inclusion of biopsy material free of contamination

### **PrimoCut tip**

precise and sharply ground cannula tip,  
electropolished and graduated

- ➔ optimum cutting behaviour of the cannula when penetrating into tissue
- ➔ no tissue displacement

# The systems at a glance

## DeltaCut

Product	Item no.	PU
DeltaCut biopsy system	304B000001	1

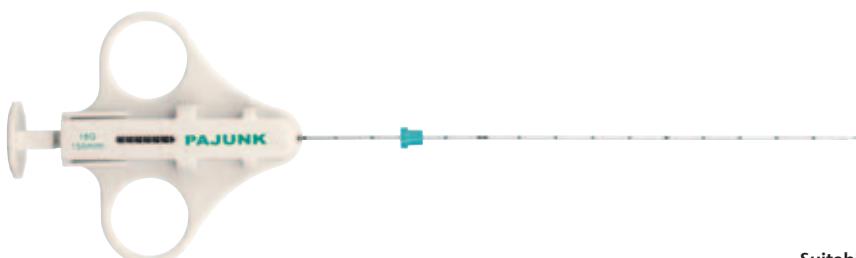


Suitable coaxial cannula

Product	Size	Item 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

Durchmesser	Item no.	PU
17 G x 44 mm	313S150014	25
17 G x 94 mm	313S150064	25
17 G x 144 mm	313S150114	10
14 G x 44 mm	313S200014	25
14 G x 94 mm	313S200064	25
13 G x 44 mm	313S250014	25

## PrimoCut



Suitable coaxial cannula

Product	Size	Item 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

Durchmesser	Item no.	PU
17 G x 98 mm	413S150112	10
17 G x 162 mm	413S150162	10
14 G x 112 mm	413S200112	10
14 G x 162 mm	413S200162	10

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