

**PAJUNK®**

*Chiba / ChibaSono*

*Cannulas for interventional biopsy*



Organ biopsy

## Chiba range of cannulas

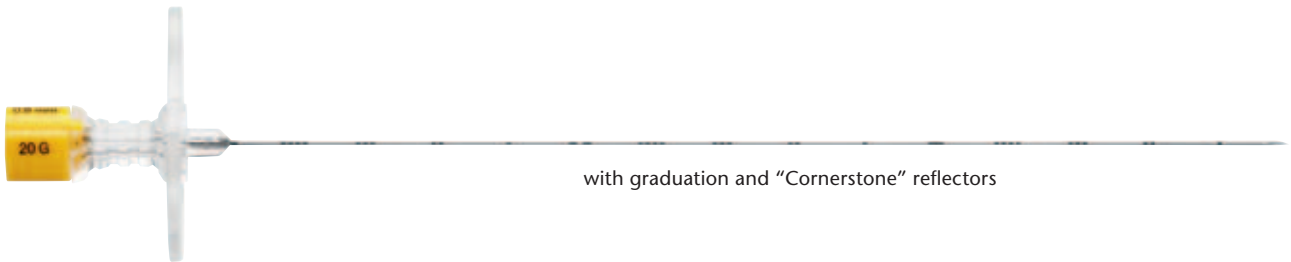
# Puncture cannulas for percutaneous fine-needle aspiration

*The manufacture of cannulas 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-cannula biopsy, cutting and punch biopsy, bone marrow biopsy, brachytherapy and localisation needles. 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 percutaneous fine-cannula biopsy with various designs of Chiba puncture cannulas:

## ChibaSono **NEW**

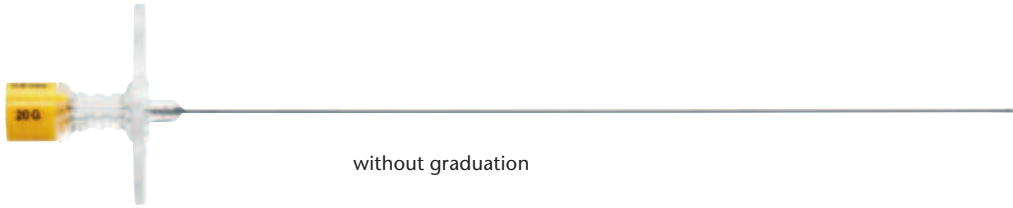
*The biopsy cannula visible under ultrasound monitoring*



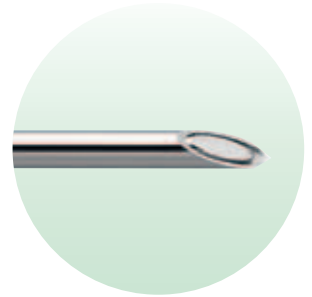
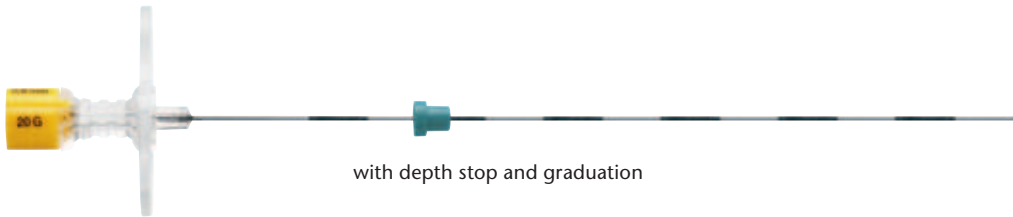
with graduation and "Cornerstone" reflectors



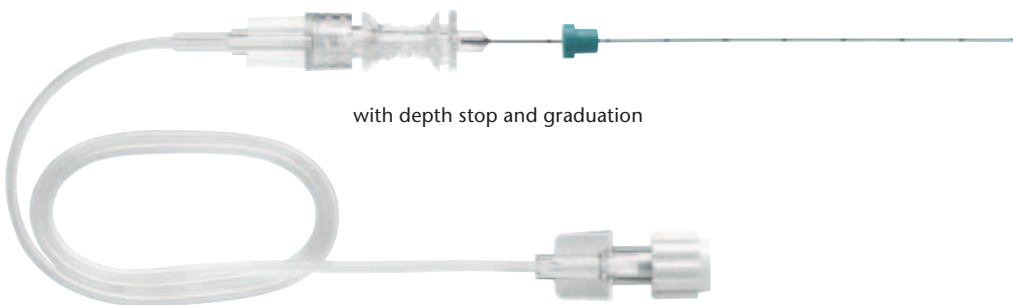
## *Chiba with US tip*



## *Chiba with bevelled tip*



## *Chiba set by Dr Steinhoff*



ChibaSono

## The revolutionary biopsy cannula with “Cornerstone” reflectors

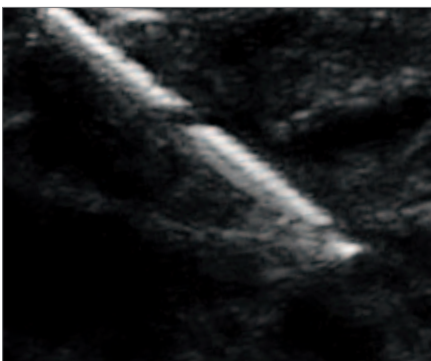
The use of ultrasound for puncture in biopsies is gaining importance. ChibaSono is a new generation of cannulas developed by PAJUNK® together with Dr Chris Mitchell that allows for purposeful localisation under ultrasound as a result of its innovative composition. The configuration and tip architecture has been designed so that the user can concentrate on the cannula tip during the entire biopsy. Thanks to the “Cornerstone” reflectors that are attached to the distal end of the cannula shaft, the cannula tip can be clearly identified at any time.

### Field of application:

- ➔ percutaneous cholangiography
- ➔ cytological biopsy
- ➔ prenatal puncture
- ➔ general percutaneous applications

### The essential features at a glance:

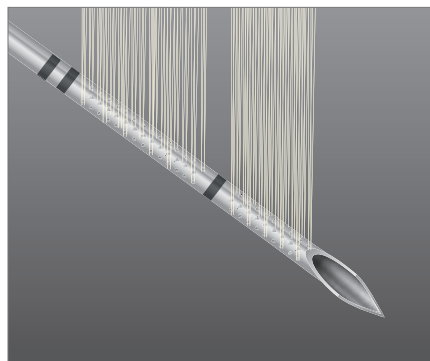
- ➔ optimum ultrasonic visibility thanks to “Cornerstone” reflectors
- ➔ high-precision cannula tip
- ➔ perfect antifriction properties



### Guaranteed cannula tip visibility

The distal end of the ChibaSono cannula has two embossed sections of 10 mm length each.

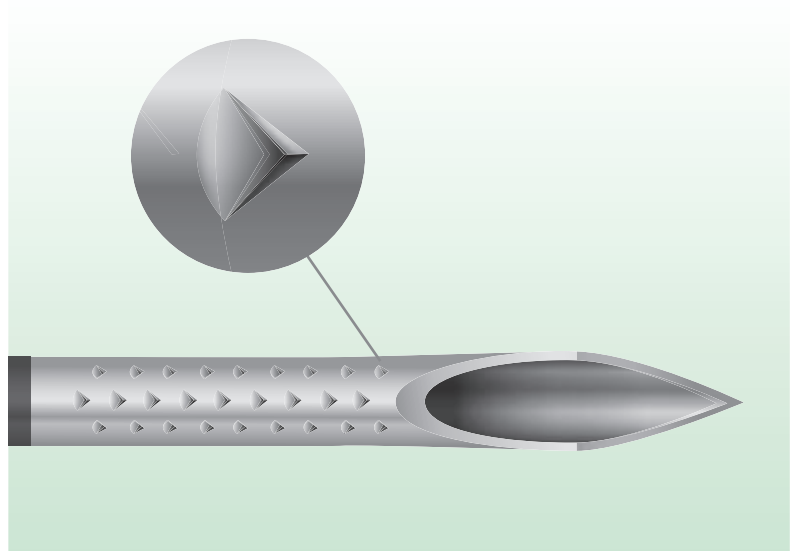
➔ That makes the cannula tips perfectly visible over a total length of 20 mm and permits clear identification.



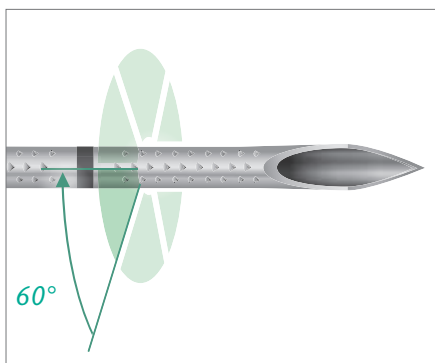
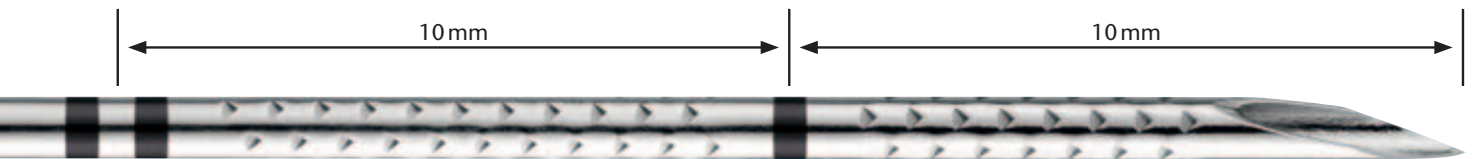
### Visibility independent of the puncture angle

The nature of the “Cornerstone” reflectors guarantees ideal reflection behaviour, independent of the puncture angle.

➔ That ensures safe use – without restrictions.



The patent pending "Cornerstone" reflectors are integrated throughout the ChibaSono cannula. Their "three-walled" indentation guarantees reflection of ultrasonic waves independent of the cannula puncture angle.



### Sophisticated layout

Each cannula segment is fitted all-around with "Cornerstone" reflectors that are offset 60°.

➔ Perfect cannula identification is guaranteed in every position.



### Perfect antifriction properties

special tip geometry

➔ excellent antifriction properties in all tissue layers

## Chiba cannulas with US or bevelled tip

# Alternative tip geometries

The Chiba universal puncture cannula is optionally available with an ultrasound tip (US) or bevelled tip. Thank to their extensive range of sizes, they are the ideal puncture cannulas for percutaneous cholangiography, cytological biopsy, prenatal puncture and general percutaneous applications. Both cannulas are provided with scale rings each at a distance of 1 cm for improved depth control.

### Field of application:

- ➔ percutaneous cholangiography
- ➔ cytological biopsy
- ➔ prenatal puncture
- ➔ general percutaneous applications

### The essential features at a glance:

- ➔ high precision cannula tip
- ➔ supports ultrasound technology
- ➔ patient and user safety as a result of depth control

Chiba cannula optionally with US tip or bevelled tip

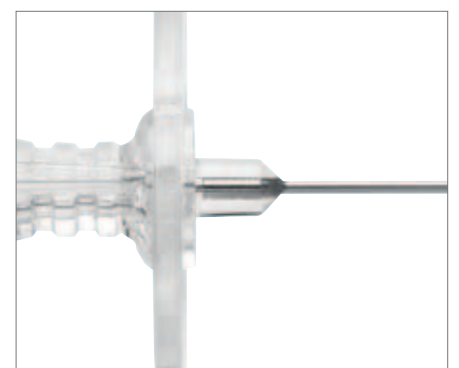


#### Retaining clip

- ➔ fixation of stylet and cannula

#### Colour coded pushbutton

- ➔ quick identification of the cannula diameter



#### Transparent plastic hub

- ➔ The free flow of the liquid can be detected early on.

#### Removable plate handle

- ➔ Enables optimum handling for different grip methods and a sensitive transfer of puncture resistance.

## Chiba with US tip

This puncture cannula with its characteristic tip geometry supports ultrasound technology thanks to dual reflection. The bluntly rounded obturator of this cannula is set back 2 cm from the tip.



### US tip

extremely sharp cannula tip  
⇒ cannula visibility thanks to dual reflection

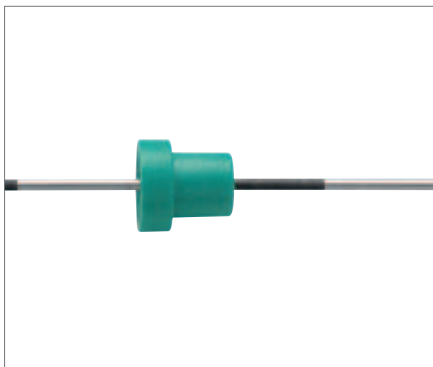
## Chiba with bevelled tip

The stylet and cannula are ground so that they are exactly flush resulting in an increase in cannula stability. A depth stop is attached to the cannula shaft for the graduated puncture cannulas for protection as standard.



### Bevelled tip and flush ground stylet

⇒ improved feedback of tissue penetration  
⇒ increased stability of cannula  
⇒ prevents displacement of tissue in the puncture region



### Depth stop

⇒ Chiba cannula with bevelled tip is optionally available with an adjustable depth stop.



### Depth graduation

⇒ graduation of the cannula in 1 cm steps for easy determination of the puncture depth

## Chiba set by Dr Steinhoff

# Applications with contrast medium

The puncture set by Dr Steinhoff includes a Chiba type puncture cannula with bevelled tip and is fitted with a flexible injecting tube for the application of contrast medium. This cannula is provided with scale rings each at a distance of 1 cm for improved depth control. The inner and outer cannulas are ground so that they are exactly flush resulting in an increase in cannula stability. A depth stop is attached to the cannula shaft for the graduated puncture cannula for protection as standard.

### Field of application:

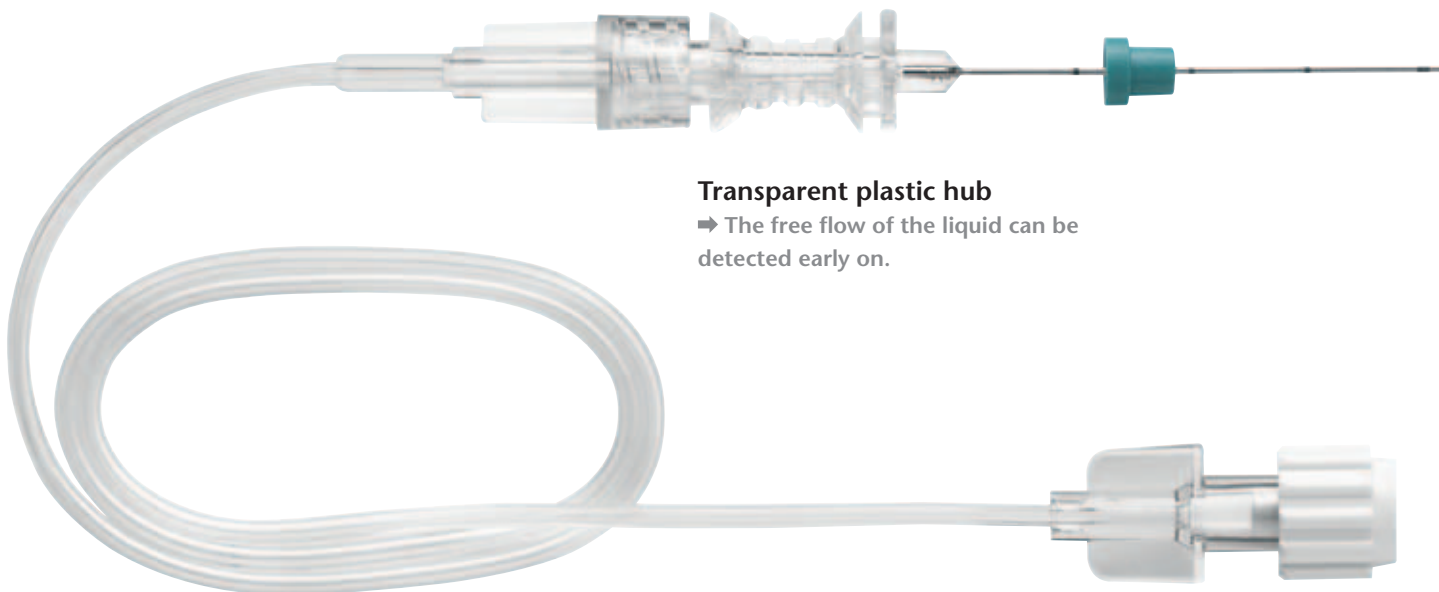
→ application of contrast medium

### The essential features at a glance:

→ pressure resistant, flexible tube

→ graduated puncture cannula

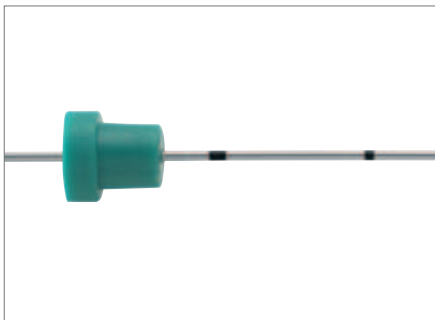
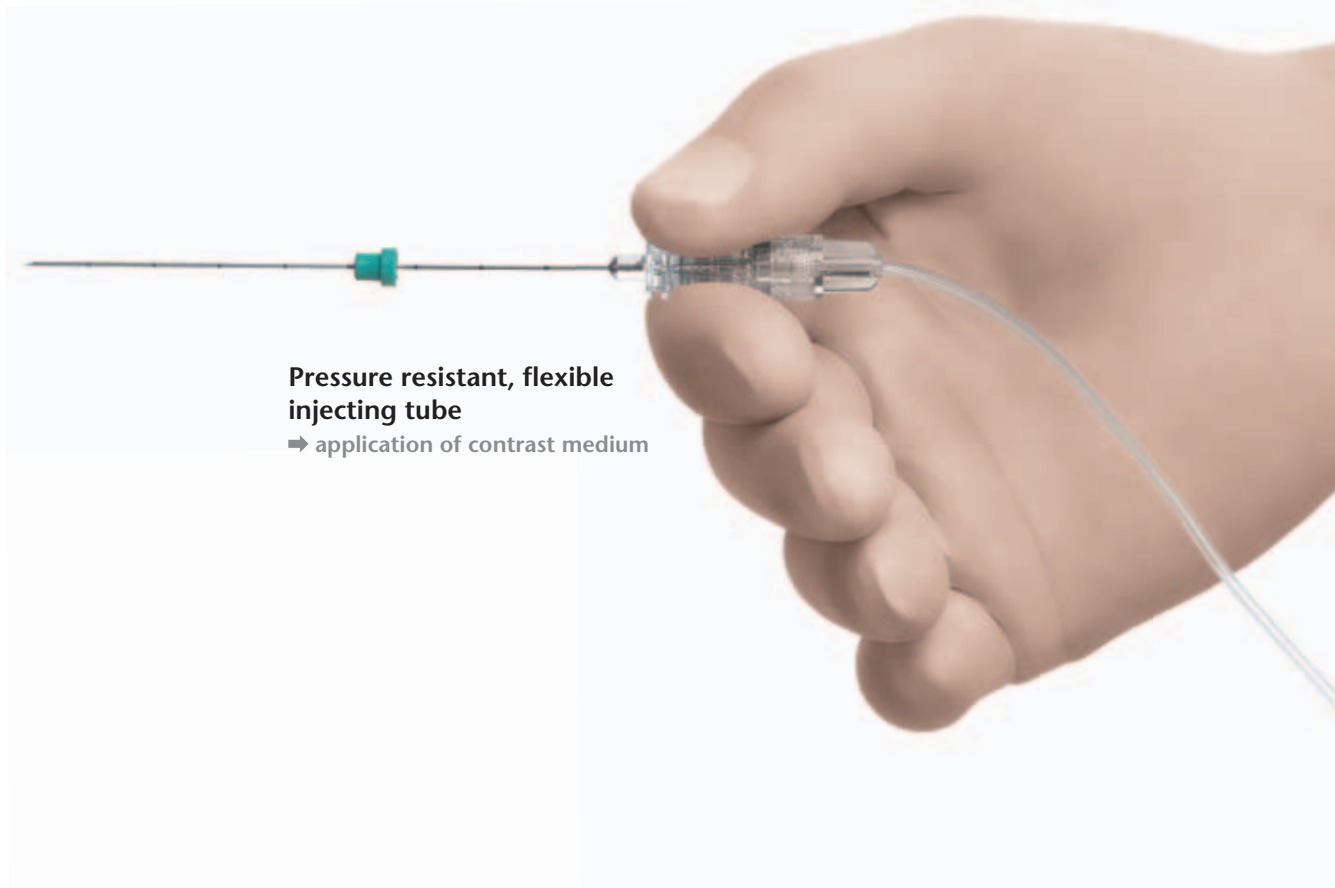
→ sharp tip of cannula



### Transparent plastic hub

→ The free flow of the liquid can be detected early on.





**Depth stop**

→ Chiba cannulas with a bevelled tip are available with an adjustable depth stop.



**Depth graduation**

→ graduation of the cannula in 1 cm steps for easy determination of the puncture depth



**Bevelled tip and flush ground stylet**

→ improved feedback of tissue penetration  
 → increased stability of cannula  
 → prevents displacement of tissue in the puncture region

# Chiba range of cannulas

## The systems at a glance

### ChibaSono



**ChibaSono cannula with US tip, graduation and "Cornerstone" reflectors**

Size	Art. No.	PU
22 G x 50mm	530S070050	25
22 G x 90mm	530S070090	25
22 G x 100mm	530S070100	25
22 G x 125mm	530S070125	10
22 G x 150mm	530S070150	10
22 G x 220mm	530S070220	10
20 G x 90mm	530S095090	25
20 G x 120mm	530S095120	10
20 G x 150mm	530S095150	10
20 G x 220mm	530S095220	10
18 G x 150mm	530S120150	10

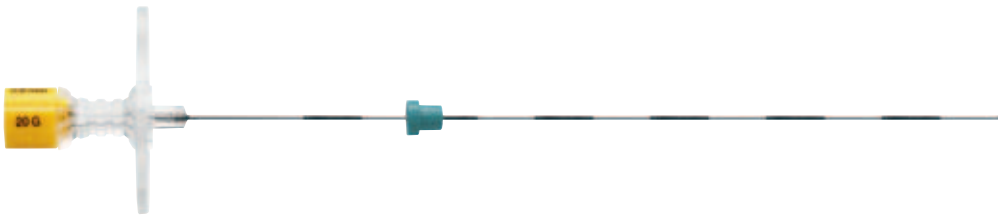
### Chiba with US tip



**Chiba cannula with ultrasound tip**

Size	Art. No.	PU
22 G x 90mm	200S070090	25
22 G x 120mm	200S070120	10
22 G x 150mm	200S070150	10
22 G x 220mm	200S070220	10

## Chiba with bevelled tip



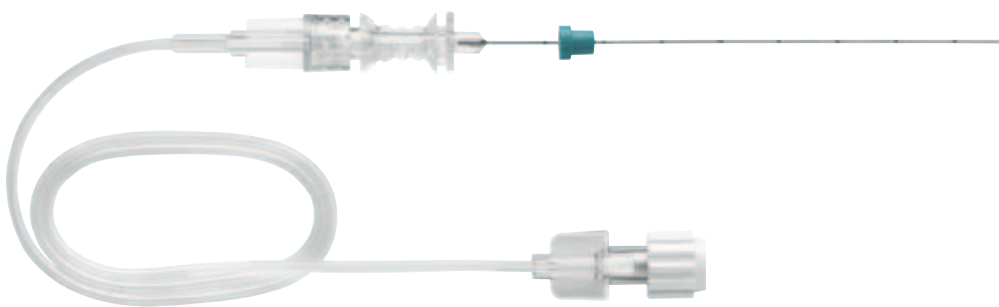
### Chiba cannula with bevelled tip without depth stop and graduation

Size	Art. No.	PU
22 G x 90mm	201S070090	25
22 G x 120mm	201S070120	10
22 G x 150mm	201S070150	10
20 G x 150mm	201S095150	10
20 G x 220mm	201S095220	10
23 G x 90mm	201S060090	25

### Chiba cannula with bevelled tip, depth stop and graduation

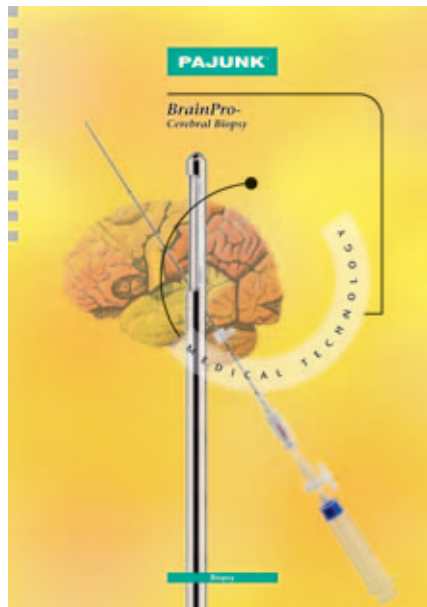
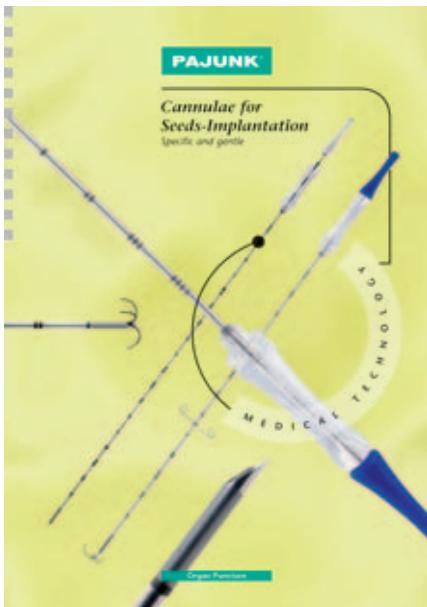
Size	Art. No.	PU
22 G x 90mm	202S070090	25
22 G x 120mm	202S070120	10
22 G x 150mm	202S070150	10
22 G x 220mm	202S070220	10
22 G x 280mm	202S070280	10
20 G x 120mm	202S095120	10
20 G x 150mm	202S095150	10
20 G x 220mm	202S095220	10
20 G x 280mm	202S095280	10

## Chiba set by Dr Steinhoff



### Chiba cannula with bevelled tip, depth stop and injecting tube

Size	Art. No.	PU
22 G x 90mm	001151-662	10
22 G x 150mm	001151-663	10



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