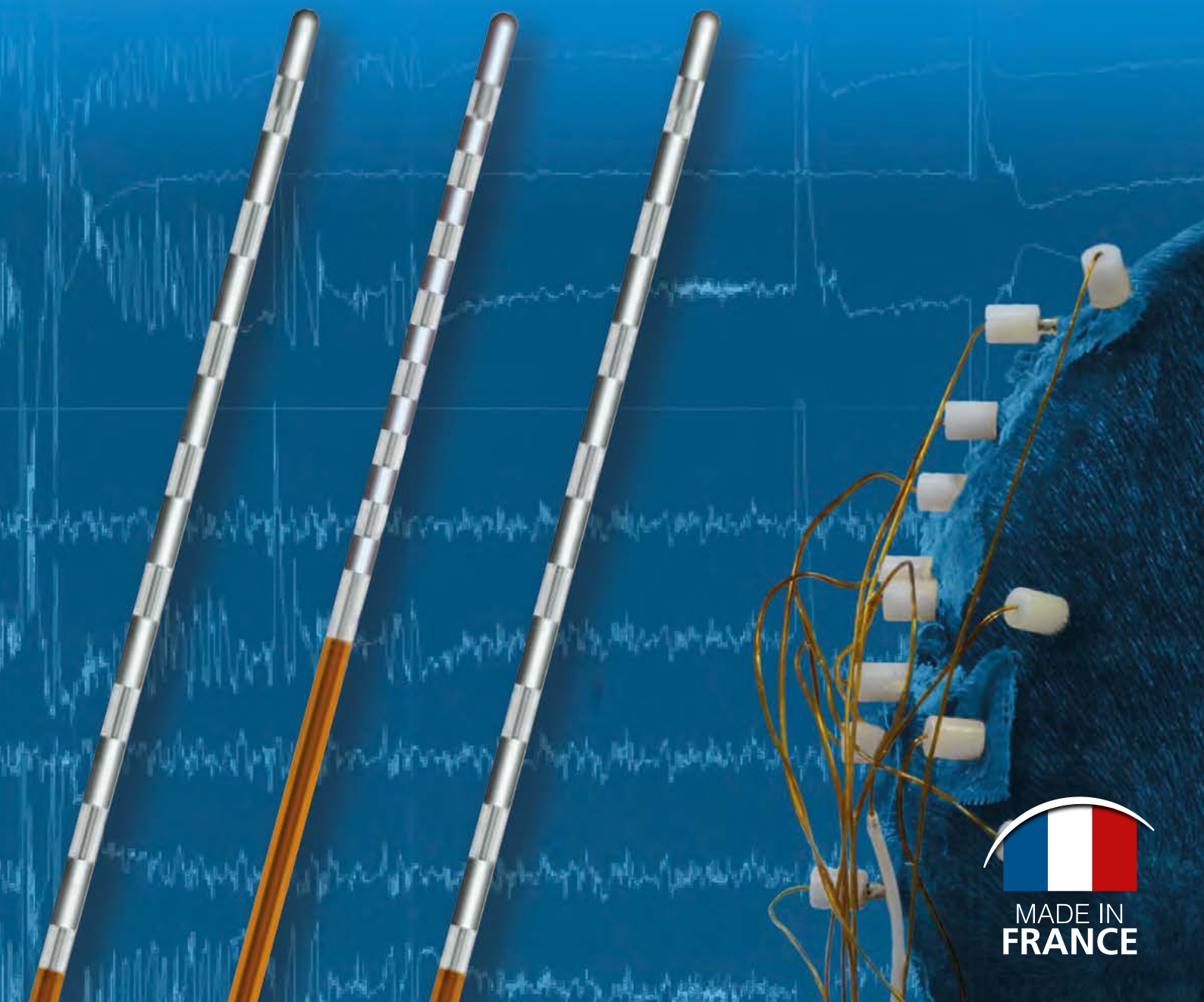
Alcis neuro

DEPTH COAGULATION ELECTRODES **ACCESSORIES** SEEG **STEREOTAXY**



LIGHTEST CONNECTOR ON THE MARKET

LESS THAN 4 GRAMS



EXCLUSIVELY AT ALCIS

TOUCHLESS SYSTEM

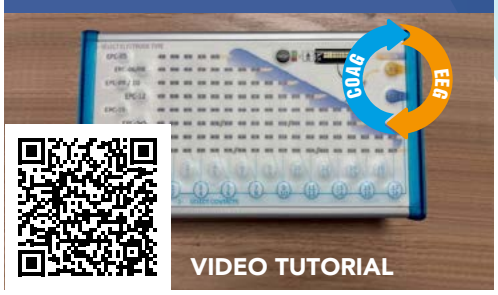
Use the graduated ruler while keeping the EPC in its protective sheath



CONNECTING BOX

SWITCH BETWEEN COAGULATION AND EEG MONITORING

at any time



EXCLUSIVELY AT ALCIS

EPC : 2 specific steps

- 2 mm HR

(High Resolution)

- 4 mm

+ standard EPC range from 5 to 18 contacts with 3.5mm step



Alcis neuro

Our aim is to help curing patients by providing the best techniques, technology and services.

Thanks to our constant research for excellence, we offer unique electrodes and an exclusive coagulation box whose EEG/Coag switch enables you to immediately check results after thermocoagulation.

For over 25 years, Alcis has developed and marketed a full range of products dedicated to neurology / neurosurgery and especially to the treatment of drug-resistant epilepsy.

This achievement illustrates Alcis's technological know-how and our expertise in manufacturing high-tech medical devices.

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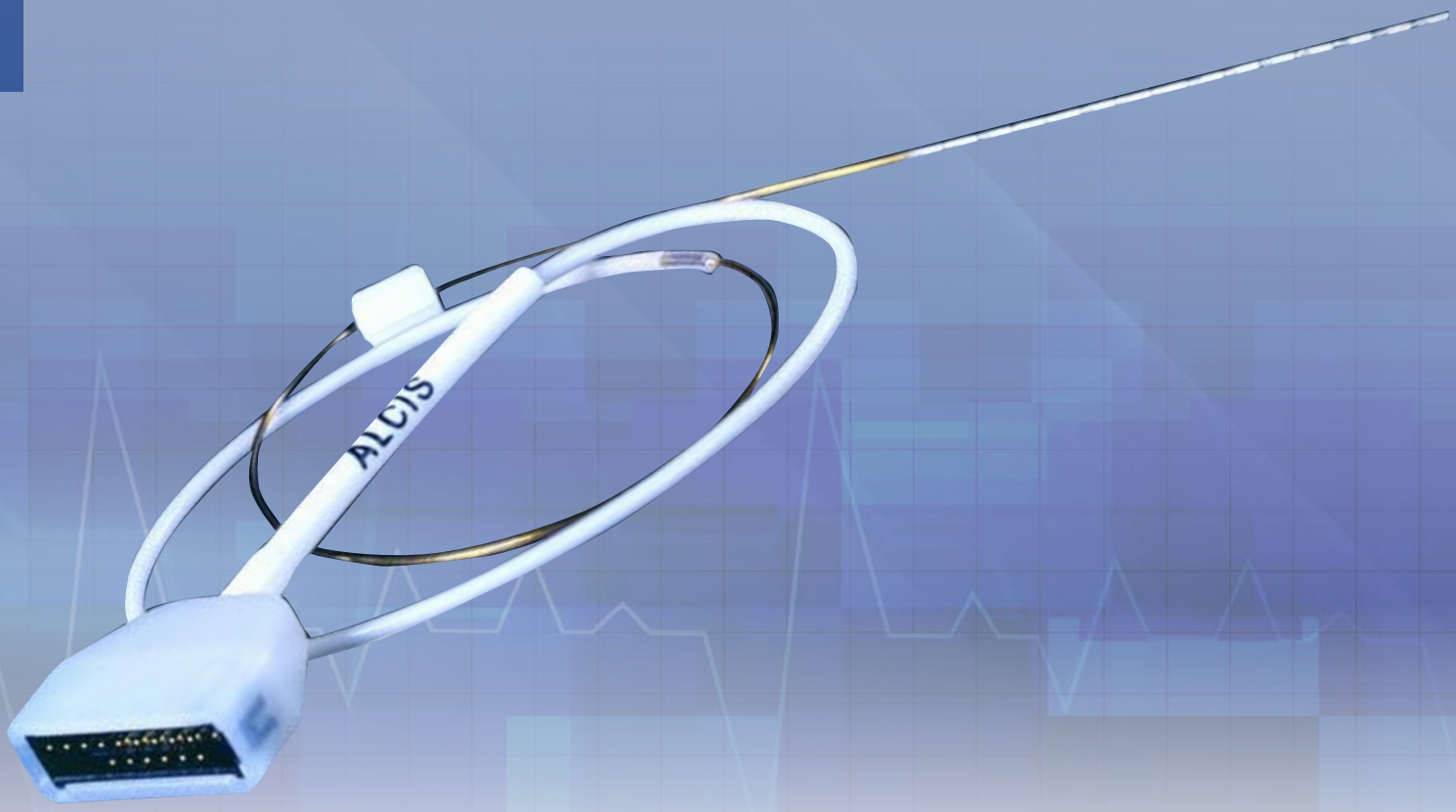
SEEG
DEPTH COAGULATION ELECTRODES



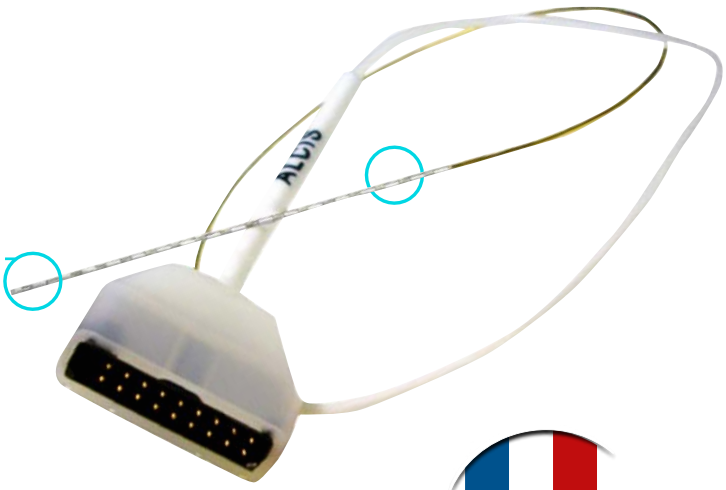
Depth coagulation electrodes

SEEG / COAGULATION / EPILEPSY
Range 2069-EPC

Alcis depth coagulation electrodes are multi-contact eletrodes used for presurgical epilepsy diagnosis. They are designed for Stereo-ElectroEncephaloGraphy (SEEG). SEEG is a therapeutic solution for drug-resistant epilepsy, using short stimulations and thermocoagulation.

> Thermo-Coagulation with our Coagulation box BC3,
> **Exclusive** EPC, **2mm and 4mm steps,**
> Distal Tip Contact,
> From 5 to 18 contacts,
> Platinum and Iridium contact,
> Diameter: 0.8 mm,
> Atraumatic distal tip,
> Light Connector,
> Protective sheath for "**touchless**" implantation,
> **High resistance to bending** thanks to our exclusive technology
> Implantation duration: up to 3 weeks
> **Guidance screws:** standard and **short** (Alcis exclusivity)

CE 1014 marked

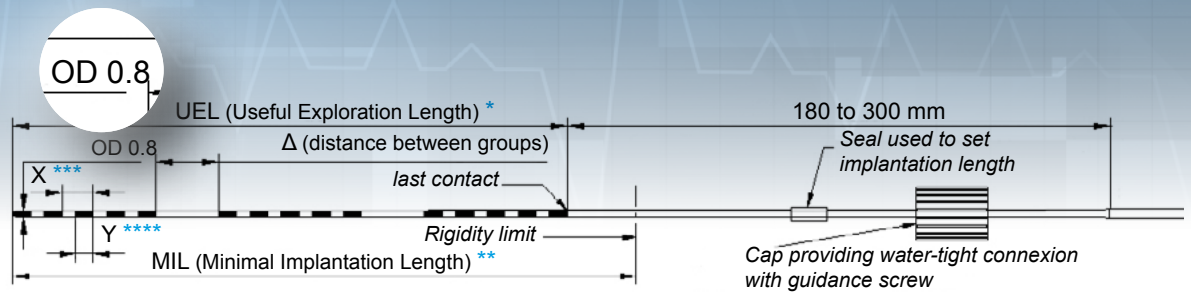


MADE IN FRANCE

Designed to be used with Alcis guidance screws from ranges 2023-VG and 2023-VG-C.
Compatible with Alcis accessory ranges 2023/2036/2069 (cf. IFU).
Unit sterile packaging. Single use.

Class III medical device - CE 1014 marked

Standard electrodes
2069-EPC Type Standard



* UEL = Useful Exploration Length, distance between the first and the last contact.
** MIL = Minimum Implantation Length, minimum length between the target and the proximal edge of the guidance screw.
** X = Contacts steps.
** Y = Ring contacts size.

2 CONTACT TYPES

References	Standard electrodes	High Resolution Electrodes
Type	Type C	Type E
Ring contacts	2 mm standard ring contacts	1 mm standard ring contacts
Tip	2 mm distal contact	2 mm distal contact

RANGE 2069-EPC TYPE C



**** Y = 2 mm *** Step 3,5 or 4mm

References	Number of contacts	Δ (mm)	UEL * (mm)	MIL ** (mm)
2069-EPC-05C-35	5	-	16,0	26,0
2069-EPC-08C-35	8	-	26,5	36,5
2069-EPC-10C-35	10	-	33,5	43,5
2069-EPC-12C-35	12	-	40,5	50,5
2069-EPC-15C-35	15	-	51,0	61,0
2069-EPC-18C-35	18	-	61,5	71,5
2069-EPC-18C-40	18	-	70,0	80,0
2069-EPC-15C-35-3G-07	3 x 5	7,0	62,0	72,0
2069-EPC-15C-35-3G-11	3 x 5	11,0	70,0	80,0
2069-EPC-18C-35-3G-11	3 x 6	11,0	80,5	90,5

RANGE 2069-EPC TYPE E



**** Y = 1 mm *** Step 2,0 mm

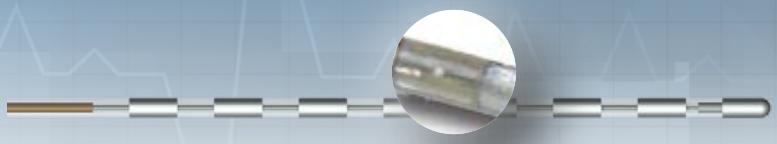
References	Number of contacts	UEL * (mm)	MIL ** (mm)
HR 2069-EPC-15E-20	15	30,0	40,0
HR 2069-EPC-18E-20	18	36,0	46,0

HR High Resolution Alcis exclusive

Micro-macro electrodes

2069-EPC type Micro-Macro

RANGE 2069-EPC **TYPE acb**



**** Y = 2 mm *** Step 3,5 mm R : on Request

2069-EPC MICRO MACRO

Two-scale recording: micro and macro.

Coagulation between macro contacts

> Easy and safe impedance driving thanks to our connecting box.

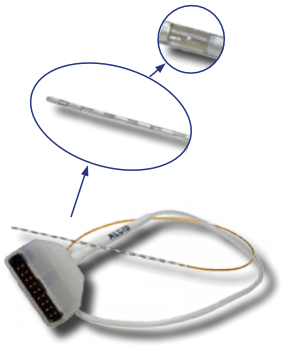
Patient / user comfort: perfectly smooth distal part; reduced Minimal Implantation Length (MIL): 10 mm after the last macro contact.

Other features:

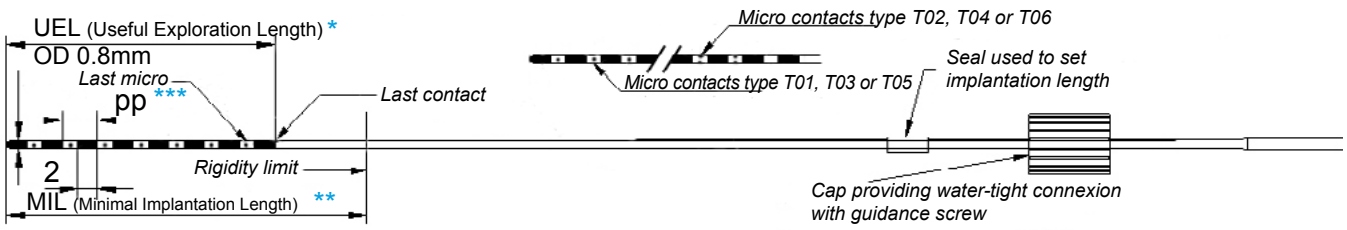
> Platinum iridium contacts & wires: better signal collection.

> Distal outer diameter ≤ 0.8 mm

> Less invasive / good mechanical strength.



References	Macro contact	Micro contact	Micro size	Micro contacts positioning	UEL * (mm)	MIL ** (mm)	Avail.
2069-EPC-5C9-35T02	5	9	37 µm	3 à 120°	16,0	26,0	R
2069-EPC-8C9-35T02	8	9	37 µm	3 à 120°	26,5	36,5	R



* UEL = Useful Exploration Length, distance between the first and the last contact.

** MIL = Minimum Implantation Length, minimum length between the target and the proximal edge of the guidance screw.

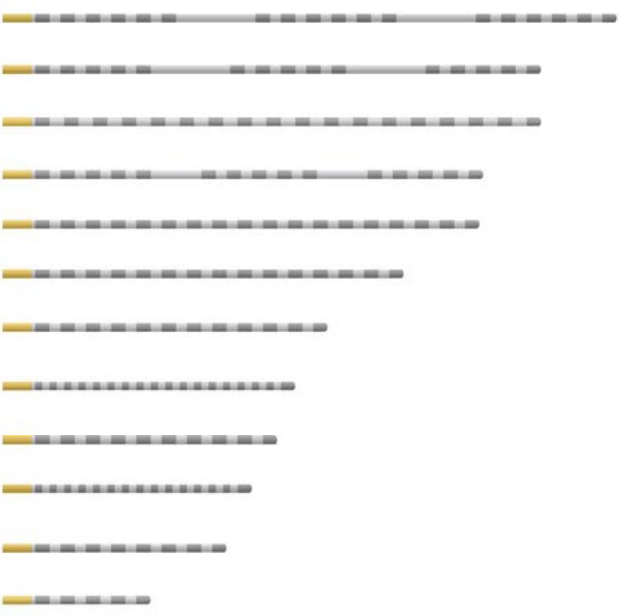
*** pp = 3.5mm = macro contacts step.

ALCIS Neuro SEEG
Electrode range chart

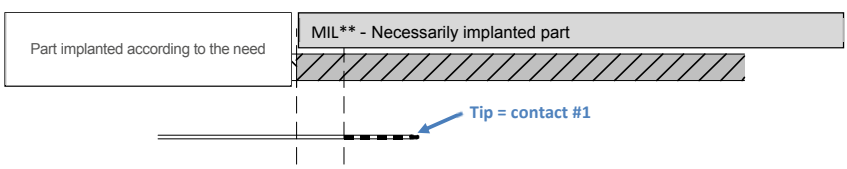
Features	Advantages
Tip contact	Full length signal retrieving Optimum use of the implanted length
Smooth tip contact	Atraumatic
Platinum-iridium contacts and wires	Better signal and recording
Light connector	Lighter weight on the patient's head
High resistance to bending	Resistant and safe

References	Nb contacts	UEL * (mm)	MIL ** (mm)	Type
2069-EPC-18C-35-3G-11	3x6	**80,5**	90,5	
2069-EPC-15C-35-3G-11	3x5	**70**	80	
2069-EPC-18C-40	18	**70**	80	4.0
2069-EPC-15C-35-3G-07	3x5	**62**	72	
2069-EPC-18C-35	18	**61,5**	71,5	
2069-EPC-15C-35	15	**51**	61	
2069-EPC-12C-35	12	**40,5**	50,5	
2069-EPC-18E-20	18	**36**	46	HR
2069-EPC-10C-35	10	**33,5**	43,5	
2069-EPC-15E-20	15	**30**	40	HR
2069-EPC-08C-35	8	**26,5**	36,5	
2069-EPC-05C-35	5	**16**	26	

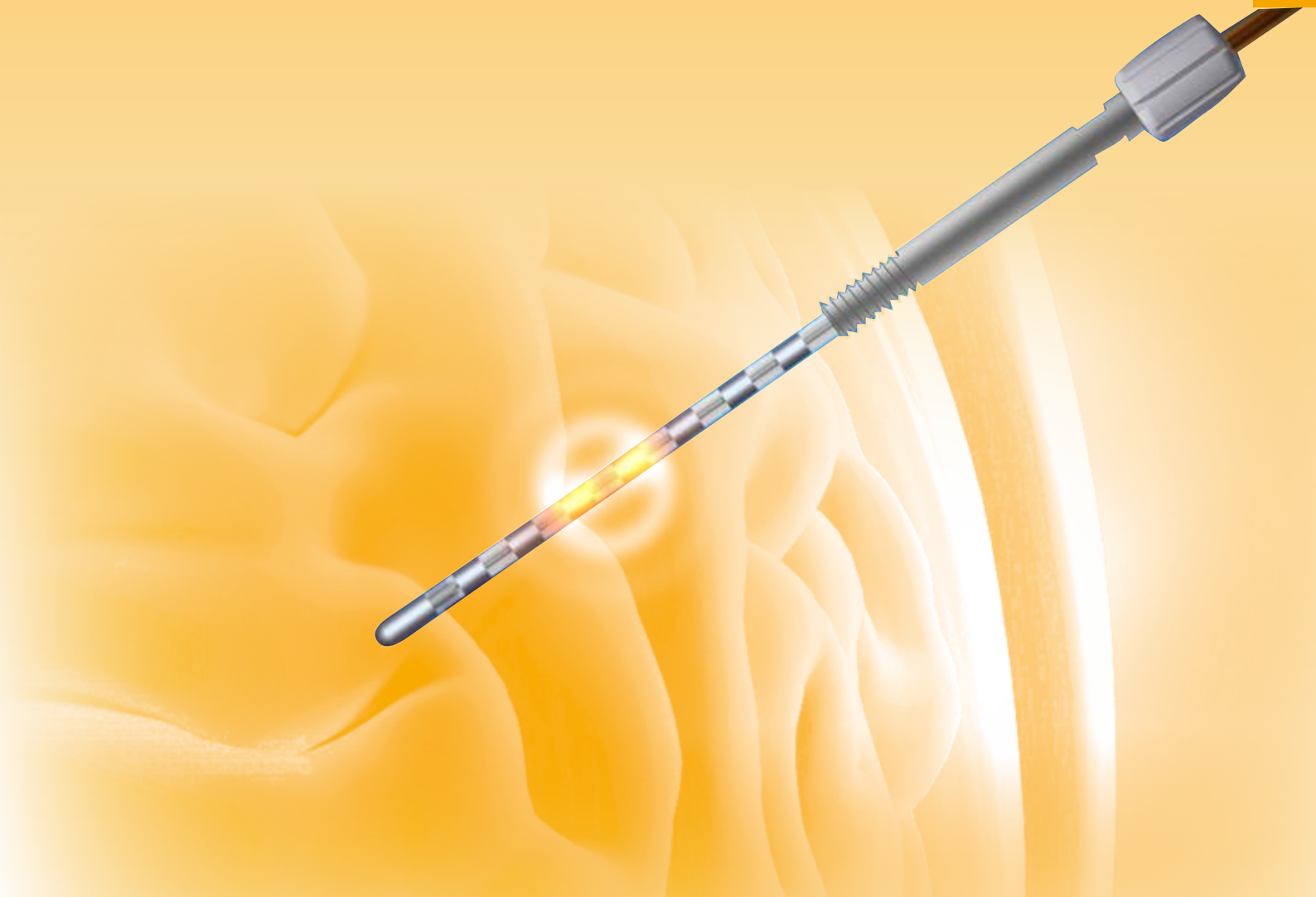
*UEL = Useful Exploration Length
**MIL = Minimal Implantation Length



Alcis exclusive



SEEG
RECORDING AND THERMOCOAGULATION



Complete coagulation solution

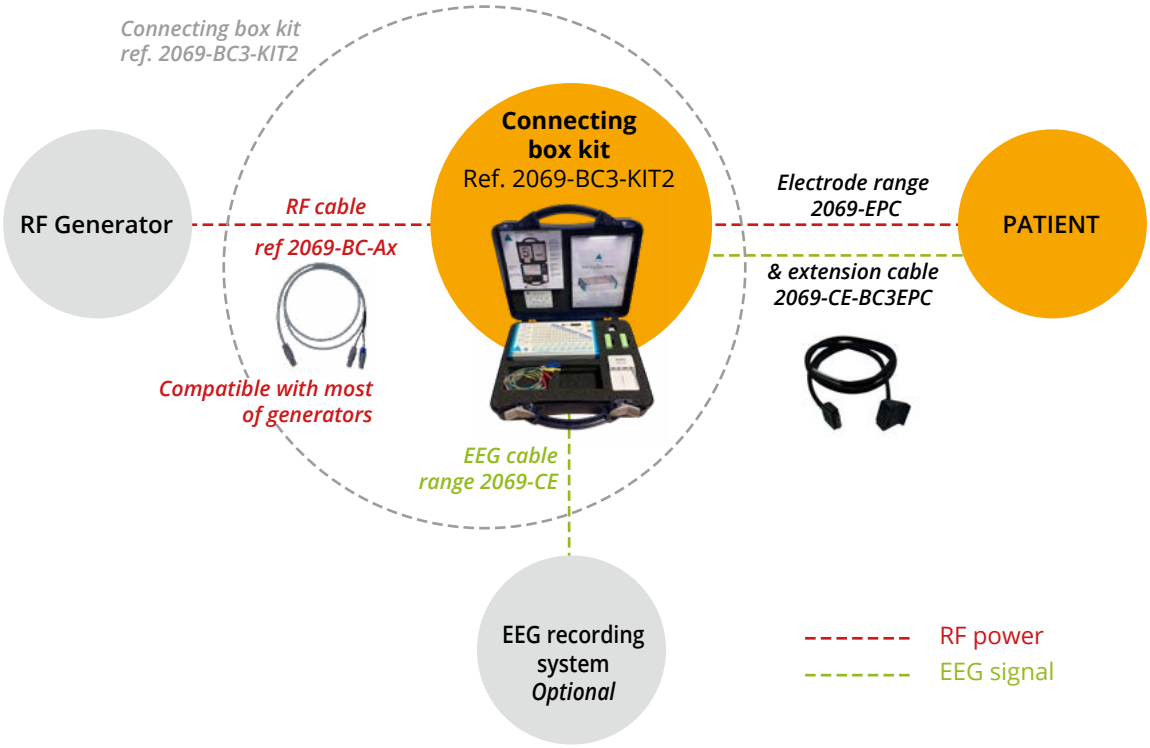
Generator - Connecting box Kit - Electrode Range 2069

Alcis depth coagulation electrodes are intended to **perform in-situ thermocoagulation**, in association with a RF generator. They are used for diagnosis and as a therapeutic solution for drug-resistant epilepsy.

Alcis offers a complete solution for coagulation which includes the following devices:

> Connecting box Kit (ref. 2069-BC3-KIT2)

> Depth coagulation electrodes (range 2069-EPC).
For technical information, refer to 2069-EPC-FT technical sheet.

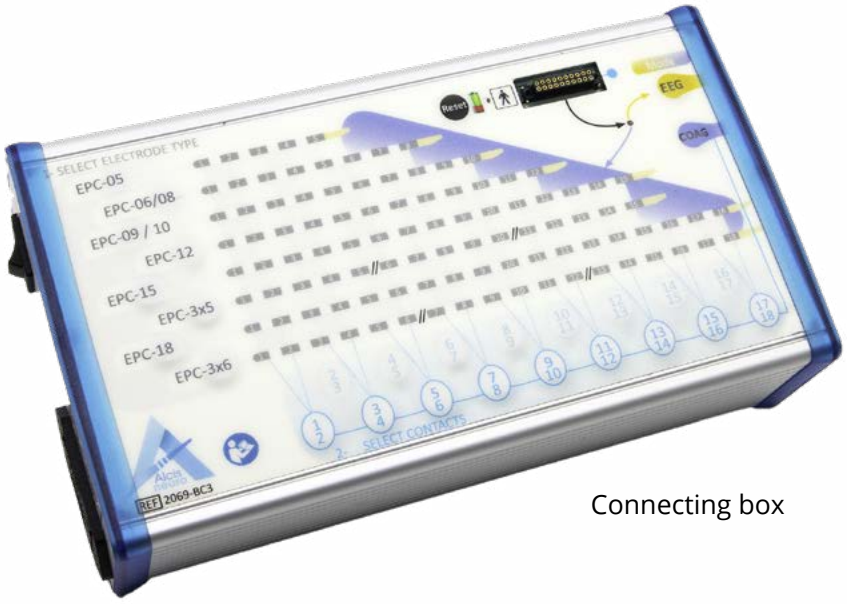


Please not that Alcis does not supply the EEG recording system nor the RF generator.
Ask us about compatibility information

Connecting box Kit
2069-BC3-KIT2

The Connecting box kit includes:
- Connecting box (ref. 2069-BC3),
- EEG extension cable (ref. 2069-CE-18c-150-B-FB5),
- Testing device,
- Battery charger with 2 batteries,
- IFU of the kit.

This kit is provided in a plastic briefcase.



Connecting box

The Alcis Connecting Box is **user-friendly and safe to use**. It makes it possible to:

- Avoid misconnections,
- Select the type of depth electrode connected,
- Select the couple of contacts to coagulate,
- Control the EEG signal immediately after coagulation (requires to connect an EEG recording system)

Class IIb medical device - CE 1014 marked

http://www.alcis.net/content/uploads/2021/07/Utilisation_BC3.mp4

Extension cable
Range 2069-CE

Alcis Extension Cables are intended to create a link between intracerebral depth electrodes (range 2069-EPC) and an **EEG recording system**.

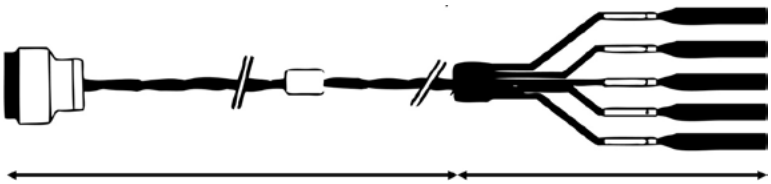
References	Number of contacts	Length	Packaging
2069-CE-05c-150-B-FB5	5	**150 cm (+30 cm)**	Individual **non sterile**
2069-CE-08c-150-B-FB5	8		
2069-CE-10c-150-B-FB5	10		
2069-CE-12c-150-B-FB5	12		
2069-CE-15c-150-B-FB5	15		
2069-CE-18c-150-B-FB5	18		

FOR MICRO-MACRO ELECTRODES

Reference	Macro contact	Micro contact	Micro size	Micro contact positioning	UEL * (mm)	MIL ** (mm)	Avail.
2069-CE99C070BFB5	9	9	37 µm	3 at 120°	26,5	36,5	R

- A colour coding helps you identify each wire and prevents you from making mistakes when you connect the cables to the EEG recording system.
- A blue spot on both cable and electrode helps you connect these two devices quickly without making any mistakes.
- Compatible with removable link 2023-CE-L2 to secure the electrode connection with the cable.

Class I medical device - CE marked





Removable link
2023-CE-L2

Removable link is intended to ensure a safe connection between the electrode's connector and the extension's cable connector.

Pouch of 5 reusable units. Provided non sterile.

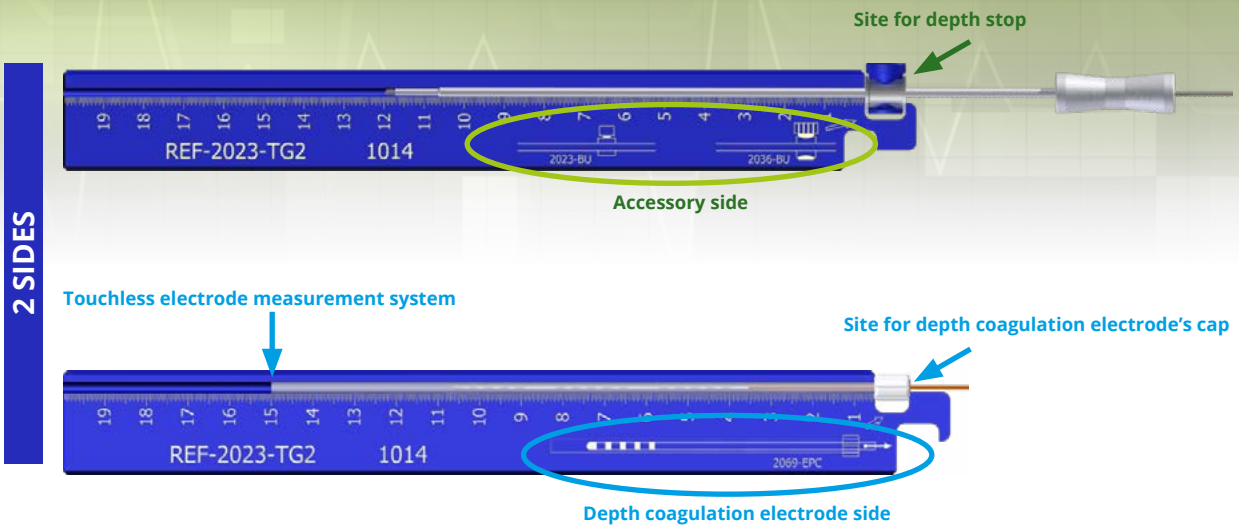
Class I medical device
CE marked



ACCESSORIES



GRADUATED RULER
Gamme 2023-TG



Reference	Material	Packaging
2023-TG2	Polymer	Individual / **non sterile**

2023-TG2
SEEG GRADUATED RULER

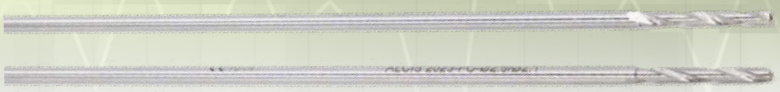
- Allows to control the insertion depth of the tools (drill, coagulation electrode, screwdriver) on one side,
- Allows to control the implantation length of the depth coagulation electrodes on the other side,
- The electrode stays in its protective sheath when put on the ruler. Just pull the electrode to adjust the implantation length,
- Measurement length: 200 mm,
- Compatible with ALCIS tools from ranges 2023, 2036 and 2069,
- Provided non sterile,
- Reusable device, compatible with steam sterilization at 134°C.

Class Im medical device - CE 1014 marking

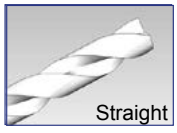
http://www.alcis.net/content/uploads/2021/07/Utilisation_reglette.mp4

SET UP ACCESSORIES
Range 2023

DRILL BIT 2023-FO



Reference	Total length (mm)	Distal shape	Proximal end	Cutting length (mm)	Material	Packaging
2023-FO-100	100	Straight	Standard	20	Stainless steel	Individual non sterile
2023-FO-140	140					
2023-FO-200	200					
2023-FO-250	250					
2023-FO-100-C1	100	Conical				
2023-FO-140-C1	140					
2023-FO-200-C1	200					
2023-FO-250-C1	250					
2023-FO-200-H06	200	Straight	H06			
2023-FO-250-H06	250					
2023-FO-200-C1-H06	200	Conical				
2023-FO-250-C1-H06	250					







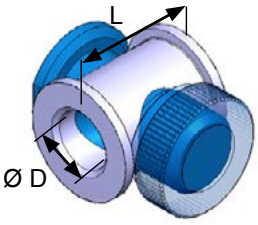


- Designed to perform ø2.1mm bone hole in order to place the guidance screw (standard or short)
- Compatible with ID 2.5 mm stereotactic guide,
- Compatible with Alcis depth stop 2036-BU-25-RU to ease drilling depth control,
- Provided non sterile,
- Reusable device designed for steam sterilization at 134°C.

Class III medical device - CE 1014 marked

Range 2036 compatible with range 2023

DEPTH STOP 2036-BU



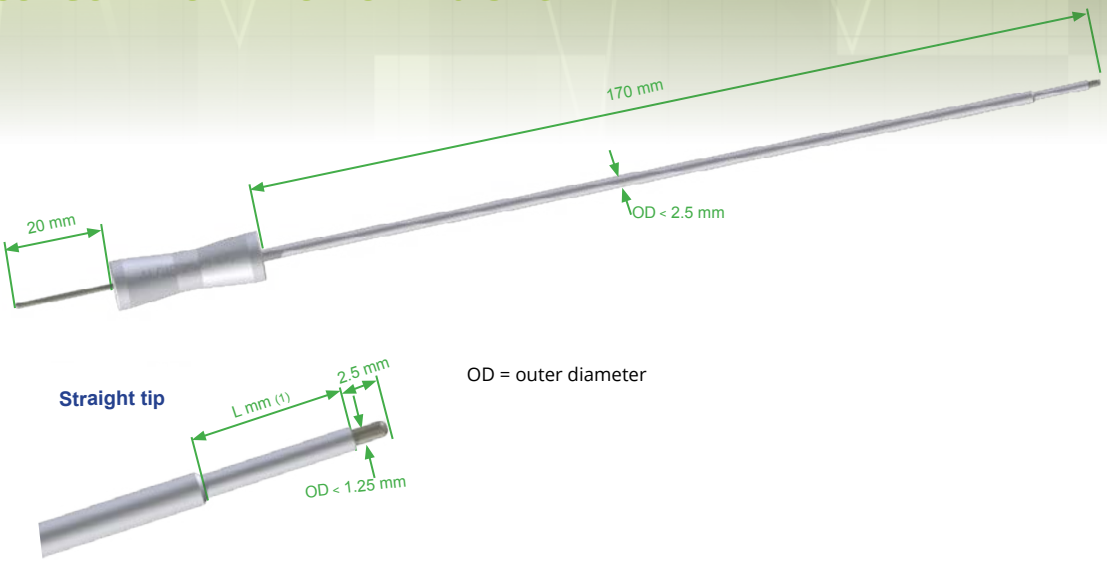
- Adaptable on OD 2.5 instruments,
- allows to control these instruments' insertion depth.

Class I medical device - CE marked

References	L (mm)	Ø D (mm)	Material	Packaging
2036-BU-25-RU	10	> 2,5	Stainless steel	Individual **non sterile**

SET UP ACCESSORIES
Range 2023

COAGULATION ELECTRODE 2023-EC



OD = outer diameter

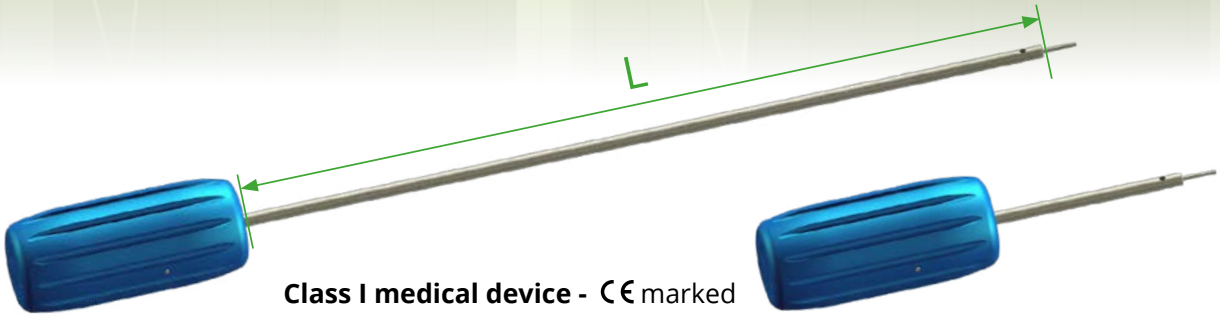
References	Shape	Insulated distal length (mm)	Active OD (mm)	Active length (mm)	Material	Packaging
2023-EC-30-STD	Straight	30	1,25	2,5	Stainless steel (body) Polymer (handle and insulated part)	Individual **non sterile**

- Monopolar electrode intended to coagulate the dura mater by thermocoagulation to allow stylet insertion,
- Compatible with ID 2.5 mm stereotactic guides,
- Compatible with single-use Alcis stopper 2036-BU-25-RU
- Provided non sterile,
- Reusable material designed for steam sterilization at 134°C.

Class III medical device - CE 1014 marked

SET UP ACCESSORIES
Range 2023

SCREWDRIVER 2023-TO



Class I medical device - CE marked

For standard guidance screw

Reference	Length L (mm)	Material	Packaging
2023-TO-020	20	Stainless steel (body) POM (handle)	Individual **non sterile**
2023-TO-160	160		

For short guidance screw

Reference	Length L (mm)	Material	Packaging
2023-TO-C-020	20	Stainless steel (body) POM (handle)	Individual **non sterile**
2023-TO-C-160	160		
2023-TO-BC	30		

- Use only with Alcis Guidance screw range 2023-VG / 2023-VG-C,
- Compatible with Alcis depth stop 2036-BU-25-RU,
- Calibrated for ID 2.5 mm stereotactic guide (except length 20),
- Provided non sterile,
- Re-usable device designed for steam sterilization at 134°C.

GUIDANCE SCREW
Range 2023-VG

This range of products allows you to implant depth coagulation electrodes and insert a stylet with a maximal guidance, and also to position robots.





References	Length (mm) (L)	Material	Packaging
2023-VG-15	15	Titanium alloy	Box of 10 sterile units (individual pouch)
2023-VG-20	20		
2023-VG-25	25		
2023-VG-30	30		
2023-VG-35	35		

- Calibrated for ID 2.5mm guide,
- Self-threading extremity for direct fixation in a 2.1 mm diameter mm osseous hole,
- Two external flats for extraction with Alcis wrench 2023-CL,
- Use exclusively with Alcis depth coagulation electrodes range 2069-EPC,
- Set exclusively with Alcis screwdriver range 2023-TO,
- Offers a watertight connection with the electrode thanks to a seal and a cap,
- Ethylene oxide sterilized,
- Single use.



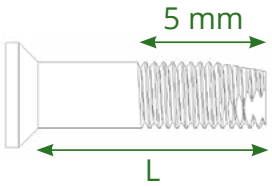
Class III medical device - CE 1014 marked

SHORT GUIDANCE SCREW
Range 2023-VG-C

Alcis exclusive

> Short guidance screws allow for a more comfortable connection, closer to the patient's cranium.
> Each short guidance screw is provided with:
- A guide which helps you make a pre-hole with our stylet range 2023-ST following the trajectory given by the guidance screw,
- A cap to be screwed onto the guidance screw,
- A retainer ring which keeps the electrode close to the cap.

Reference	Length (mm) (L)	Material	Conditionnement
2023-VG-C-15	15	Titanium alloy (screw) Polymer (accessories)	Box of 10 sterile units Individual pouch includes screw, guide, cap and retain
2023-VG-C-20	20		
2023-VG-C-25	25		
2023-VG-C-30	30		




Short guidance screw


Guide


Cap



Retainer

Use exclusively with Alcis depth coagulation electrodes range 2069-EPC,

> Self-threading extremity for direct fixation in a 2.1 mm diameter osseous hole,

> Set with Alcis screwdriver, 2023-TO-C-III and ALCIS clamp 2023-PIN,

> In the event of difficulty for the screwing / unscrewing of the cap, use exclusively screwdriver Alcis 2023-TO-BC,

> Ethylene oxide sterilized,

> Single use.

Class III medical device - CE 1014 marked

SET UP ACCESSORIES
Range 2023



STYLET 2023-ST

Reference	Minimum useful length (mm)	Outer diameter (mm)	Depth stop	Material	Packaging
2023-ST-AB	120	0,8	Oui	Stainless steel (stylet) Polymer (depth stop)	Box of 10 sterile units (individual pouches)

- Designed to make a 0.8mm OD first hole to ease the depth coagulation electrodes insertion,
- Rounded distal end,
- Supplied with adjustable depth stop which makes it easier to control the insertion depth,
- Ethylene-oxide sterilized,
- Single use.

Class III medical device - CE 1014 marked

WRENCH 2023-CL

References	Useful opening (mm)	Material	Packaging
2023-CL	1,9	Stainless steel	Individual **non sterile**
2023-CL-C	3,5		

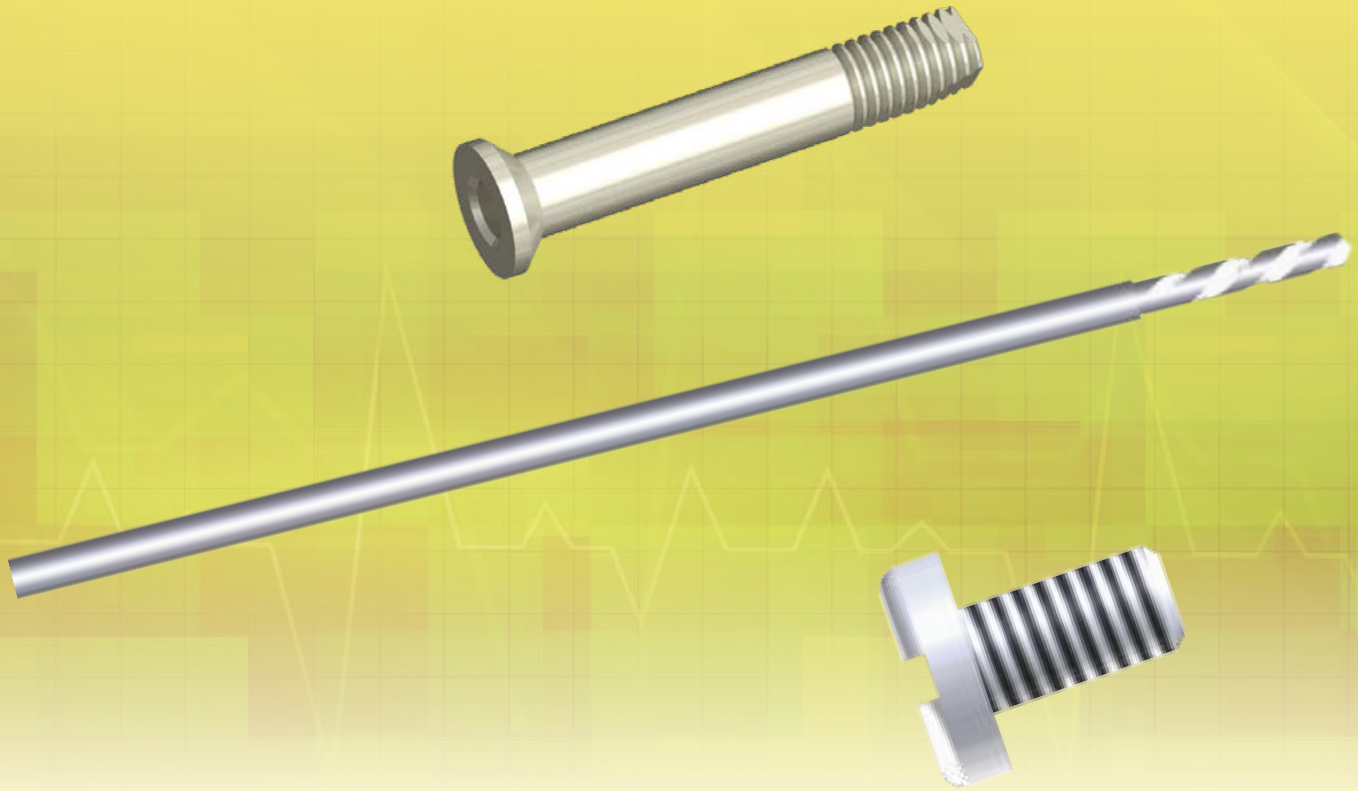
Designed to unlock Alcis guidance screw range 2023-VG and short guidance screw range 2023- VG-C,

- User-friendly curved shape,
- Supplied non sterile,
- Re-usable device designed for steam sterilization at 134°C.

Class I medical device - CE marked



STEREOTAXY



BONE FIDUCIAL GUIDANCE SCREW

Range 2023-VG-CM

ALCIS short guidance screws can be used as bone fiducial during surgeries performed with robots. These screws are available in several lengths in order to adapt to the patient's anatomy.

References	Length	Material	Packaging
2023-VG-CM-15	15 mm	Titanium alloy TiAl6V4	Box of 10 individual pouches Ethylene-oxide sterilized
2023-VG-CM-20	20 mm		
2023-VG-CM-25	25 mm		
2023-VG-CM-30	30 mm		



SET UP ACCESSORIES

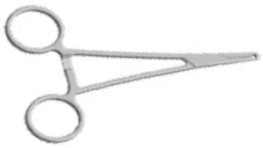
- Drill bit from range 2023-FO for bone drilling,



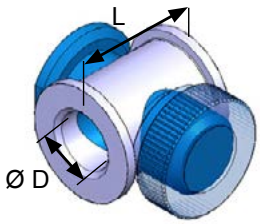
- Screwdriver ref. 2023-TO-C-020 to implant the screws,



- Wrench ref. 2023-CL-C to remove the screws,



- Clamp ref. 2023-PIN to hold short screws,



- Mobile depth stop ref. 2036-BU-25-RU to control tools' insertion depth.

> Provided non sterile - reusable medical deviced designed for steam sterilization at 134°C.

Class I or III medical devices - CE marked

Notes

ALCIS
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Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.
Read carefully the instructions for use for complete clinical instructions. Non contractual document.
Alcis reserves the right, without prior notice, to modify the products in order to improve their quality.
WARNING: Applicable laws restrict these products to sale by or on the order of a physician. All the references numbers mentioned on this document are CE or CE1014 marked according to European council directive 93/42/EEC on medical devices and its relatives, unless specifically identified as “NOT CE MARKED.” Legal Manufacturer : ALCIS – Besançon, France.

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