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MediSurge®

Take Care of your Patients...We care about your instruments

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ANNEX 1

THERAPEUTIC BRONCHOSCOPY






RIGID AUTOCLAVABLE BRONCHOSCOPE & ACCESSORIES



MediSurge®

SET BR Technical dossier For Rigid Bronchoscopes

SETS BR Rigid Bronchoscopes Cleaning Range

<i>Internal cleaning of channels</i>					
Internal cleaning brush code for BR Sets	Length	Channel Diameter		Colour Code	
		Minimum	Maximum		
Product code: SET BR09/25					
SUL09 	55 cm	7 mm	9 mm	Red	
Product code: SET BR12/25					
SUL12 	55 cm	10 mm	12 mm	Blue	
Product code: SET BR16/25					
SUL16 	55 cm	12 mm	16 mm	White	
<i>Connexions cleaning (1 SULV08 in each set)</i>					
SULV08 	Large brush	5 mm	7 mm	Double Brush	
	Small brush	3 mm	5 mm		
<i>Rigid Endoscope External cleaning (1 external brush SUBEM in each set)</i>					
SUBEM 	Medium Fibres			Yellow	

Packaging:

- Ref: BRBA - Complete Adult Rigid Bronchoscopy Set (Box of 25 sets) including :
1 x SUL09 / 1 x SUL12 / 1 x SUL16 / 1 x SULV08 / 1 x SUBEM

- Ref: BRBA09 - For #9,00mm Size Tube Rigid Bronchoscopy (Box of 25 sets) including:
1 x SUL09 / 1 x SULV08 / 1 x SUBEM

- Ref: BRBA12 - For #12,00mm Size Tube Rigid Bronchoscopy (Box of 25 sets) including:
1 x SUL12 / 1 x SULV08 / 1 x SUBEM

- Ref: BRBA16 - For #14,00mm Size Tube Rigid Bronchoscopy (Box of 25 sets) including:
1 x SUL16 / 1 x SULV08 / 1 x SUBEM



European Directive 93/42/CE: Sets BR (Rigid Endoscope Cleaning Brushes) belong to **class I**, according to 'Annexe 9 rule 1 of that Directive, non implantable, non invasive device, dedicated to medical device cleaning by physical means before disinfection.

Single use medical device - Non sterile Medical Device

CE Mark – CE Conformity declaration of October, 26th, 2007

List of Components		
Elements	Components	Characteristics
SUL		
Wand	Flexible wand	Thermoplastic compound - No wiping plastic
		Non brush end with round end : Atraumatic for use by traction
	Colour	Food grade
Brush		
Bristles	Polyamide 6/12	45 mm minimum brush length
		Brush diameter, specific and adapted to each channel size
		Specific diameter and number of fibres (according to the references) to give the ideal cleaning properties for biofilm.
Wire	300 series Stainless steel	Atraumatic pin end for use by traction
SUBEM		
Handle		Thermoplastic compound
Bristles		Thermoplastic compound
SULV08		
Wand	Nickel compound	
Brush		
Bristles	Polyamide 6/12	Specific diameter and number of fibres (according to the references) to give the ideal cleaning properties for biofilm.
Wire	300 series Stainless steel	Atraumatic pin ends

Indications: The Sets BR brushes are intended for the internal/external cleaning of rigid Bronchoscopes with medium to large channels diameter (between 7 to 16 mm or from CH. 21 to CH. 48)- Compulsory cleaning step for preliminary treatment of sterilizable medical devices.

Contra-Indications: The Sets BR brushes have bristle diameter corresponding to precise inner diameters of the rigid Bronchoscope. The use of any inappropriate cleaning brushes may result in incomplete or ineffective cleaning.

Cautions: In order not to damage the brushes, avoid any brush compression during storage. We recommend storing Sets BR brushes in the storage box before use.

Recommendations:

Wear the gloves according to the cleaning procedure
 Protect yourself against any liquid projections.
 Before any cleaning, check the Sets BR brushes integrity and the general condition. Change if the appearance of the bristles is not correct.

Specific Instruction for use (apart from bronchoscope manufacturer instructions for use or hospital cleaning procedure):

We recommend the use in traction for the SUL brush in order not to re-infect the working channel and for easier cleaning.

Insert the SUL cleaning brush by the non-ended brush side in the channel (from the cleanest side) and push till the non-ended brush side gets out. Then grasp the SUL cleaning brush wand to provide the cleaning by traction with the brush in the working channel.

Clean and rinse the SUL cleaning brush if you need to brush several times the same working channel.

The Set BR cleaning brushes cannot be steam sterilized and have to be removed to the contaminated waste.

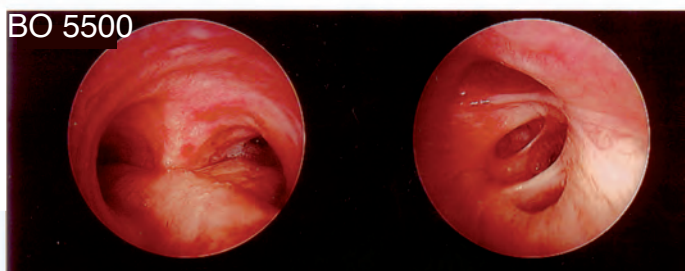


MediSurge RIGID BRONCHOSCOPES

NEW



THESE STEAM AUTOCLAVABLE OPTICS ARE DEDICATED TO THE RIGID DIAGNOSTIC AND THERAPEUTIC BRONCHOSCOPY. THEY ARE FULLY COMPATIBLE WITH RIGID DIAGNOSTIC OR THERAPEUTIC BRONCHOSCOPY INSTRUMENTATIONS OF THE MARKET.



INCLUDING THE LATEST TECHNOLOGY IN ROD LENS RIGID OPTICS, THESE BRONCHOSCOPES FEATURE AN OPTIMAL SHARP AND BRIGHT IMAGE

REFERENCE:	BO 5500 BO 5500C BO5530	BO 4000	BO2700
TECHNICAL FEATURES:			
DIAMETER:	5,5mm	4,0mm	2,7mm
WORKING LENGTH:	495mm (BO5500C: 395mm)		302mm
FIELD OF VIEW:	70°		
DIRECTION OF VIEW:	0° (BO5530: 30°)		
OPTICAL TECHNOLOGY:	HIGH RESOLUTION ROD LENS		
ACCESSORIES CONNECTION :	STORZ COMPATIBLE		
LIGHT GUIDE CONNECTORS:	STORZ / WOLF / ACMI		
AUTOCLAVABLE:	134° - 18MIN - 2 BARS		

Manufactured by



SOPRO COMEG
see the difference

CE - 0123

MediSurge s.a.s. - 17 Boulevard SCHLOESING - 13010 MARSEILLE - FRANCE
Phone: +33 4 96 14 00 84 - Fax: +33 4 96 14 04 91 - email: info@medisurge.net

Câbles de Lumière

Nos câbles de lumière sont totalement autoclavables et de construction résistante.

Afin de répondre à l'usage avec des sources haute intensité, nous proposons aussi une gamme de câbles haute température.

Enfin nous fournissons des câbles pour applications spéciales comme les câbles en "Y" côté source ou endoscope.

Tableau des caractéristiques dimensionnelles et références:



DIMENSIONS	STANDARD	TEMPERATURE
Φ 3,5 mm / L. 1,8 m	GO135	GL135
Φ 3,5 mm / L. 2,3 m	GO235	GL235
Φ 4,9 mm / L. 1,8 m	GO149	GL149
Φ 4,9 mm / L. 2,3 m	GO249	GL249
Φ 4,9 mm / L. 3,0 m	GO349	GL349
Φ 4,9 mm / L. 1,1 m - Φ 3,5 mm / L. 1,2 m	GYE235	
Φ 3,5 mm / L. 0,6 m - Φ 4,9 mm / L. 1,7 m	GYS235	

De façon à répondre au mieux à vos besoins, nos câbles de lumière sont référencés sans connecteurs. Vous pouvez ainsi choisir ces derniers en fonction de votre environnement.

	REF.	COTE SOURCE	REF.	COTE ENDOSCOPE
STORZ	LSTORZ		ESTORZ	
WOLF	LWOLF		EWOLF	
WOLF SNAP			ESWOLF	
ACM	LACM		EACM	
OLYMPUS	LOLYMPUS			

Source de Lumière

Nous fournissons des sources haute intensité pour les applications chirurgicales.

Celles-ci délivrent une lumière blanche et homogène pour une illumination parfaite en vision directe ou vidéo assistée.

SPECIFICATIONS:

- ⇒ Lampe Xénon 180 W- 6000°K,
- ⇒ Durée de vie de la lampe 500 H,
- ⇒ Amorçage automatique,
- ⇒ Alimentation 100-250V, 50-400Hz ,
- ⇒ Embase de câble de lumière à spécifier à la commande

DISTRIBUTION:



ANNEX 2

THERAPEUTIC BRONCHOSCOPY

THERAPEUTIC BRONCHOSCOPY INSTRUMENTS

- Standard
- Monopolar
- Bipolar
- Optical Forceps



MediSurge - Therapeutic Bronchoscopy



Designed in partnership with International Physicians from Europe and USA, this line of instruments is the natural complement of the EFER-DUMON® bronchoscope and provides till many years an answer to the majority of therapeutic procedures.

These semi-rigid instruments offer a unique combination of strength, flexibility and are autoclavable.

At the opposite of diagnostic type instruments fixed to the optic, these instruments are positioned freely straight beside the optic saving the widest space in the Bronchoscope tubes allowing a variety of enhancements including:

- Ability to introduce several instruments simultaneously (forceps, laser fibre, suction tube, ...),
- Increase in ventilation capability of the patient,
- Vision of the operating site is maintained even when instrument is removed,
- Allow the surgeon to work farther from the optic site when necessary and then avoid to get it dirty,
- To follow the pieces into the bronchoscope while removed..

These forceps are characterised by a small diameter of shaft. While connected to an operating bronchoscope, this feature allows therapeutic actions even with the smallest diameter tubes, in particular children tubes.

A luer flush port allow the nurse team to perform the best cleaning of the inside of the forceps before sterilisation process.



The colour-code used on these instruments allows for a quick and easy selection of the requested instrument. No longer does one have to verify the head shape of the instrument in order to pick the correct one.



Adult and Children forceps feature a strength stop in order to avoid any overstrength on the active part of the forceps.

The manufacturing quality together with the good adaptation of the products to the need and to the international regulations make these instruments unrivaled on their market.





ADULT & CHILDREN INSTRUMENTATION LINES

NEW



PROTECTOR



HF Forceps Handle



RESECTOR Handle



RACHET OPTION



SIZE INDICATOR



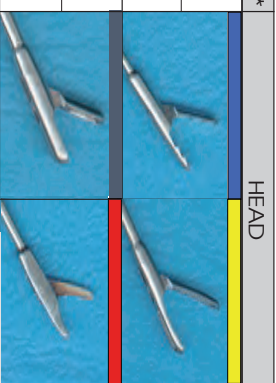
LIGHT HANDLE

CODE	REFERENCE	DESCRIPTION	CHARACTERISTICS	FUNCTION & MEDICAL USE*	FIXED HEAD	HEAD SINGLE ACTION	HEAD DOUBLE ACTION
	BAP10 (#)	OPENWORK FORCEPS	Working Length: 600 mm Shaft Diameter: 2 mm Head Diameter: 3 mm	ATRAUMATIC FOREIGN BODY, TUMORS, GRANULOMA GRASPING			
	BACC20	HOOK BLADE KNIFE	Working Length: 600 mm Shaft Diameter: 3 mm	SUTURE CUTTING...			
	BACC30	RESECTOR	Working Length: 460mm Shaft Diameter: 10 mm	RAPID RESECTION OF TUMORS AND HARD GRANULOMA SECRETION SUCKING, CLEANING			
NATURAL INOX	BAA40	CLEANING CANULA	Working Length: 600 mm Shaft Diameter: 2.5 mm	FOREIGN BODY, STENT, SUTURE GRASPING,			
	BAP50 (#)	CROCO 1 MOBILE JAWS GRASPING FORCEPS	Working Length: 600 mm Shaft Diameter: 2 mm Head Diameter: 3 mm	CUTTING SUTURE, STENTS,...			
	BAP52 (#)	CROCO 2 MOBILE JAWS GRASPING FORCEPS					
	BAC00	HOOK BLADE SCISSORS					
	BAB50	1 MOBILE JAWS BIOPSY FORCEPS					
	BAB50H	1 LATERAL MOBILE JAWS BIOPSY FORCEPS	Working Length: 600 mm Shaft Diameter: 2.5 mm	BIOPSY,...			
	BAB52	2 MOBILE JAWS BIOPSY FORCEPS					
	BAB53	2 MOBILE JAWS HIGH FREQUENCY BIOPSY FORCEPS					
NATURAL INOX	BAS60	Size Indicator	Working Length: 600 mm Shaft Diameter: 2.5 mm	Gives an indication on the length and the Diameter of operating site			
NATURAL INOX	BAG40	ANGLED LASER FIBER GUIDE	Working Length: 600 mm Shaft Diameter: 2.5 mm	GUIDING, HOLDING AND ANGULATING THE LASER FIBER			
	BAF50 (#)	SITRONG CROCODILE FORCEPS	Working Length: 600 mm Shaft Diameter: 3.0 mm Head Diameter: 3.5 mm	REMOVAL OF PIECES REQUIRING STRENGTH SUCH AS LONG LASTING STENTS PUSHING STENTS & TUBES			
	BAF50R	SITRONG CROCODILE REVERSE FORCEPS					
	BAF52 (#)	SITRONG 2 X ACTION FORCEPS	Working Length: 600 mm Shaft Dic: 4.0 Head Dic: 4.5 30mm Jaws	BIG FOREIGN BODIES MOBILISATION			
	BAS50CR	Y STENT PLACEMENT FORCEPS					

(#) THESE MODELS MAY RECEIVE A RATCHET AS AN OPTION - PUT "CR" AT THE END OF THE ORDERED REFERENCE TO GET THIS OPTION (Ex: 2050CR)

C H I L D R E N

Always listening to the input of medical teams, Medisurge is permanently improving these lines of instruments and will launch soon new instruments in order to provide the best in palliative and curative treatment to patients around the world.



DISTRIBUTED BY :

This Device protects our instruments during cleaning and sterilisation processes. It allows you to save most of your repair budget.

Ref 1000: Protection for Medisurge Interventional Bronchoscopy products
Ref 1001: Silicone Bands (pack of 10)

*THESE INFORMATIONS ARE OPEN-ENDED AND NOT EXHAUSTIVE.



OPTICAL FORCEPS *by* MediSurge

NEW






See & Act

- Aim:
- These forceps allow the operators willing to operate with fixed instrument in the field, to perform all interventional acts such as Holding, grasping, cutting or performing biopsy.
 - Our forceps are available and compatible with all the existing rigid Interventional Bronchoscopy equipments for adult , children and extended optics when needed

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Function	Lines	Reference	Optic		Jaws
			Dia.	WL.	
Atraumatic grasper	Adult	OF101	5,5	500	
	Paediatric	OF101P	2,9	302	
	Extended Range	OF101L	5,5	540	
Crocodile Grasper	Adult	OF105	5,5	500	
	Paediatric	OF105P	2,9	302	
	Extended Range	OF105L	5,5	540	
Hook Scissors	Adult	OF110	5,5	500	
	Paediatric	OF110P	2,9	302	
	Extended Range	OF110L	5,5	540	
Biopsy Forceps	Adult	OF115	5,5	500	
	Paediatric	OF115P	2,9	302	
	Extended Range	OF115L	5,5	540	
Strong Grasper	Adult	OF205	5,5	500	
	Paediatric	OF205P	2,9	302	
	Extended Range	OF205L	5,5	540	

CE Nota: Other jaws and dimensions may be offered on special request

OF1603-AD

The Black X-Line by MediSurge

Aim:

- To offer an advanced technological line of forceps that revolutionizes Therapeutic Bronchoscopy instrumentation.
- A line that holds and acts (cut, biopsy,...) during the same operating time to sculpt the airways or reshape indwelling stents.

NEW



Easy Cleaning and quick assembly system

	<p>Handles for modular instrument.</p> <ul style="list-style-type: none"> - Rotatable, - Gold-plated - HF Connection. - Automatic safeguard against distortion in the locked/ engaged position (for ratchet model) 	
<p>Standard Handle</p>		<p>Switchable ratchet</p>



HF Security / Insulation of the full handle and shaft

REFERENCE:	1153 NEW	1015	1110 NEW	1120	1130 NEW	2054CR
Description:	Cup	Curved Grasper	Hook Scissors	Curved Scissors	Micro Scissors	Jumbo Grasper
Name:		Maryland		Metzenbaum		
Shaft diameter:	3,00 mm					5,00 mm
Head diameter:	3,00 mm					5,00 mm
Working Length:	600,00 mm					
HF :	4,00mm male standard connector - Full insulated instrument					
Head:						
Ratchet:	NO	Optional	NO			Yes
Rotation:	Yes					
Packaging:	1 instrument per box					

Manufactured in exclusivity for MediSurge by



CE - 1253

Black X-Line

MediSurge®

Sondes Bipolaires / Bipolar Probes



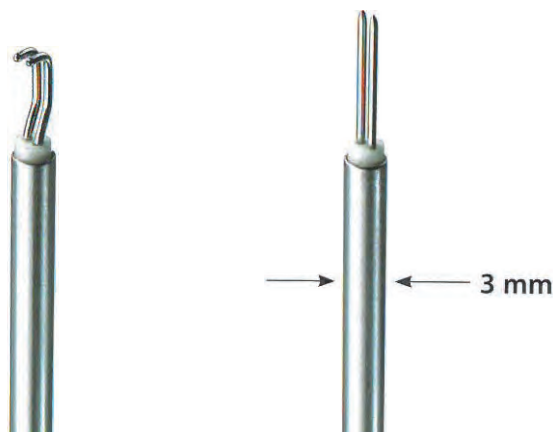
NEW

Spécialement développée pour être mise en oeuvre En Bronchoscopie Interventionnelle, ces sondes permettent une coagulation en profondeur sécurisée des lésions et masses intra trachéales et Bronchiques.

Elles constituent une réponse sécurisée aux besoins des opérateurs en matière d'électrocoagulation et coupe.

Specially designed to be used in interventional Bronchoscopy, these probes allow a safe and deep coagulation of the intra tracheal and Bronchial lesions and tumoral masses.

These are a safe answer to the operators needs in terms of Electro coagulation and cutting.



REFERENCE:	BP36H	BP36N
Sondes Bipolaires / Bipolar Probes		
Diamètre Tige / Shaft Diameter	3,00 mm	3,00 mm
Longueur Poles / Poles Length	3,00 mm	6,00 mm
Longueur Utile / Working Length	620 mm	
"Flat Plug" - Cable d'alimentation / Power Cord - Ref. FPC		
Longueur Utile / Working Length	3,00 m	
Générateurs Compatibles Compatible Generators	Erbe (E) - Martin (M) - Bershtold (B) - Aesculap (A) Valleylab (V) - Lamidey (L) - EMC (EM) - Dolley (D) Codman (C)	
Spécifier le type de générateur à la commande / Specify Generator brand with the order		

Made in exclusivity by Bissinger for Medisurge  - 0297

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ANNEX 3

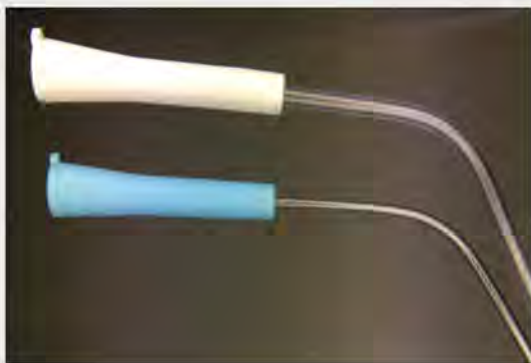
THERAPEUTIC BRONCHOSCOPY

DISPOSABLE CATHETERS

- Metallic
- Scaled

IP Scaled Suction Catheters

NEW



All along IP Procedures, operators need suction catheters for :

- Aspiration of liquid and smoke.
- Palpation of tissue with Atraumatic Tip

In addition transparency of the catheter is important to validate aspiration process on site.



Taking advantage of it and considering their need to get dimension estimation of the field they work in, we added marks on the catheters to help them in this purpose.

These catheters become the first of its type on the market.

Reference	Outer / Inner Diameter (mm)	Working Length (mm)	Angled Handle	
M053605	2,7 / 2,0	550	Yes	BOX OF 50
M053606	4,0 / 3,0	550	Yes	BOX OF 50

Manufacture in Exclusivity by HMC Premedical for MediSurge



ANNEX 4

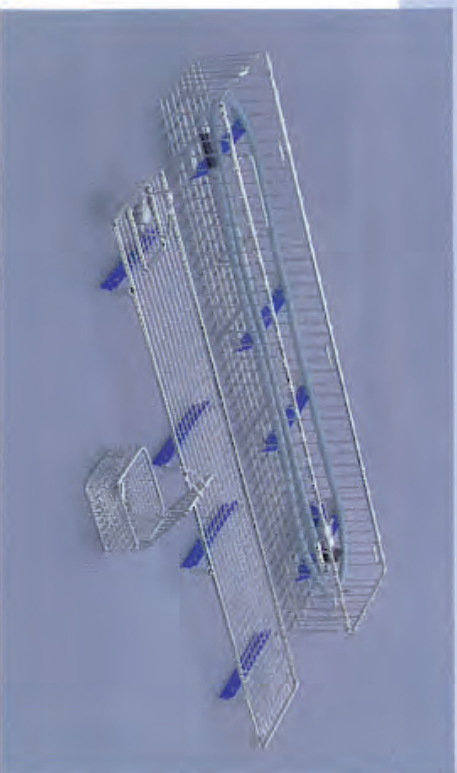
THERAPEUTIC BRONCHOSCOPY

STERILISATION BASKETS & CONTAINERS



STERILISATION BASKETS FOR ENDOSCOPES

Endoscope is protected by silicone stands



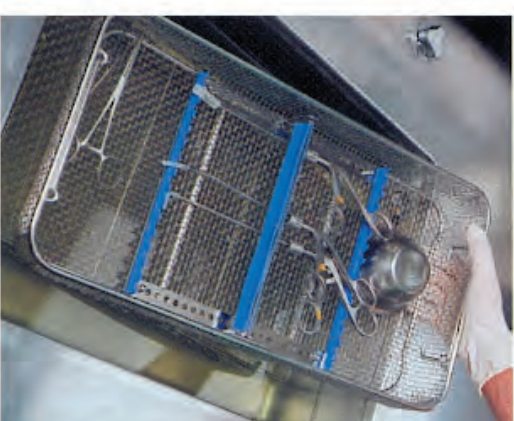
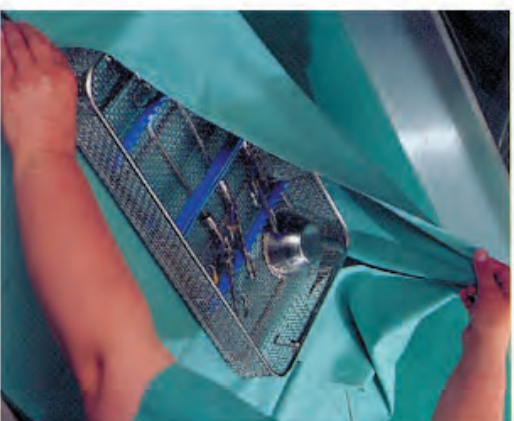
All models are made of medical grade stainless steel and contain only round shapes to avoid containers damage

Nota: Engraving of any model is available upon request

1 ENDOSCOPE BASKETS	
External Dimensions L x H x W (mm)	Ref
280 X 80 X 52	PSE2880
460 X 80 X 52	PSE4680
670 X 80 X 52	PBB6780

2 ENDOSCOPES BASKETS	
External Dimensions L x H x W (mm)	Ref
290 X 80 X 52	PSED2980
460 X 80 X 52	PSED4680
640 X 150 X 77	PSED64150

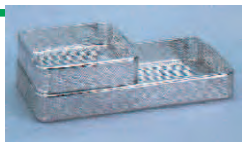
*Including the accessory basket





BRONCHOSCOPY STERILISATION BASKETS

Perforated Basket



Instruments Supports

Wire Mesh Basket

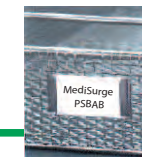


For a maximum protection of instruments the baskets may receive a closing cover

The retractable handles allow a stable stacking

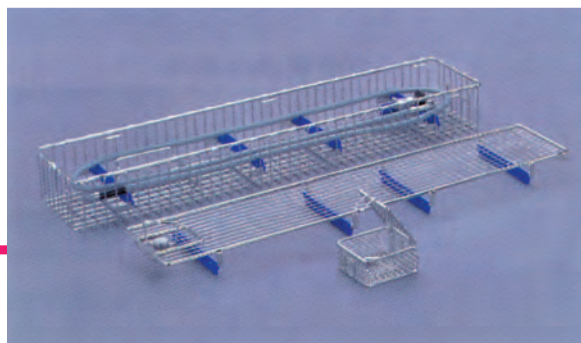


Accessories Box



Label holder Can be affixed on the basket

USE	REFERENCES	DIMENSIONS (LxWxH mm)	DESCRIPTION	HANDLES
RIGID ENDOSCOPES	PSED64150 PSB6780	640X150X77 670X80X52	STAINLESS STEEL WITH SILICONE RETAINING CLAMP AND CLOSING COVER	NO
ALL TYPES MODULAR BRONCHOSCOPE	PSBAA	480X250X70	WIRE MESH BASKETS-EQUIPED WITH INSTRUMENT HOLDER, ACCESSORIES BASKET AND CLOSING COVER	RETRACTABLE
STENT PLACEMENT SETS	PSBSK	540X255X60	WIRE MESH BASKETS-EQUIPED WITH INSTRUMENT HOLDER, ACCESSORIES BASKET AND CLOSING COVER	RETRACTABLE



All our baskets are in medical grade stainless steel and show only round shapes in order to avoid containers or bags damages.



Sterilisation Baskets general document for endoscopes and instruments available on request

NOTA: FOR TRACABILITY AND STORAGE PURPOSE, ENGRAVING OF THE BASKETS UPON SPECIAL ORDER

DISTRIBUTED BY:



STERILISATION CONTAINERS 1/1



Containers offered by MediSurge feature perforated Top & Bottom with safety lid (Grey / Orange / Red / Blue / Green / Black). They comply with international regulations in force EN868-8 and AAMI ST77 and are CE marked and guarantee a maximum of user-friendliness.

They guarantee, due to their high thermal conductivity, an optimal drying phase. All containers can be stacked, whereby space and storage problems are solved.

A silicon seal in the rim of the lid guarantees complete leakproof closure during and after sterilization.

The filter holder, with an integrated silicon seal, ensures solid and firm positioning of the filter (germ sealed).

The safety catch of the filter holder allows the filter to be quickly and easily changed. By simple insertion of the labels in a specified slot, which is equipped with a safety spring, each container can be individually marked.

To prevent the container from unauthorized opening, a safety seal can be fixed on the opening handle which breaks as soon as the container is opened.

REFERENCE	DIMENSIONS Outer	DIMENSIONS Inner	Weight
CSBAA100*	580X280X100 mm	550X265X84 mm	4007,5 g
CSBAA200*	580X280X200 mm	550x265x180 mm	4589,0 g

(*for specific Lid colour add: G / J / R / B / V / D after the reference)



These containers are made to receive our Bronchoscopy sterilisation baskets (PSBAA & PSBSA) separately or together.



Accessories

Paper Filter Disposable (Pack of 100)

Textile PTFE Multiple Use

Filter Holder

Paper Label With Indicator (Pack of 100)

Paper Dispenser

Identification Label

Plastic Seal (Par 100)

Ref: FCSUU

Ref: FCSRU

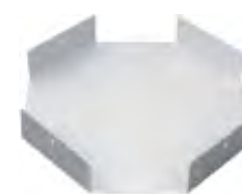
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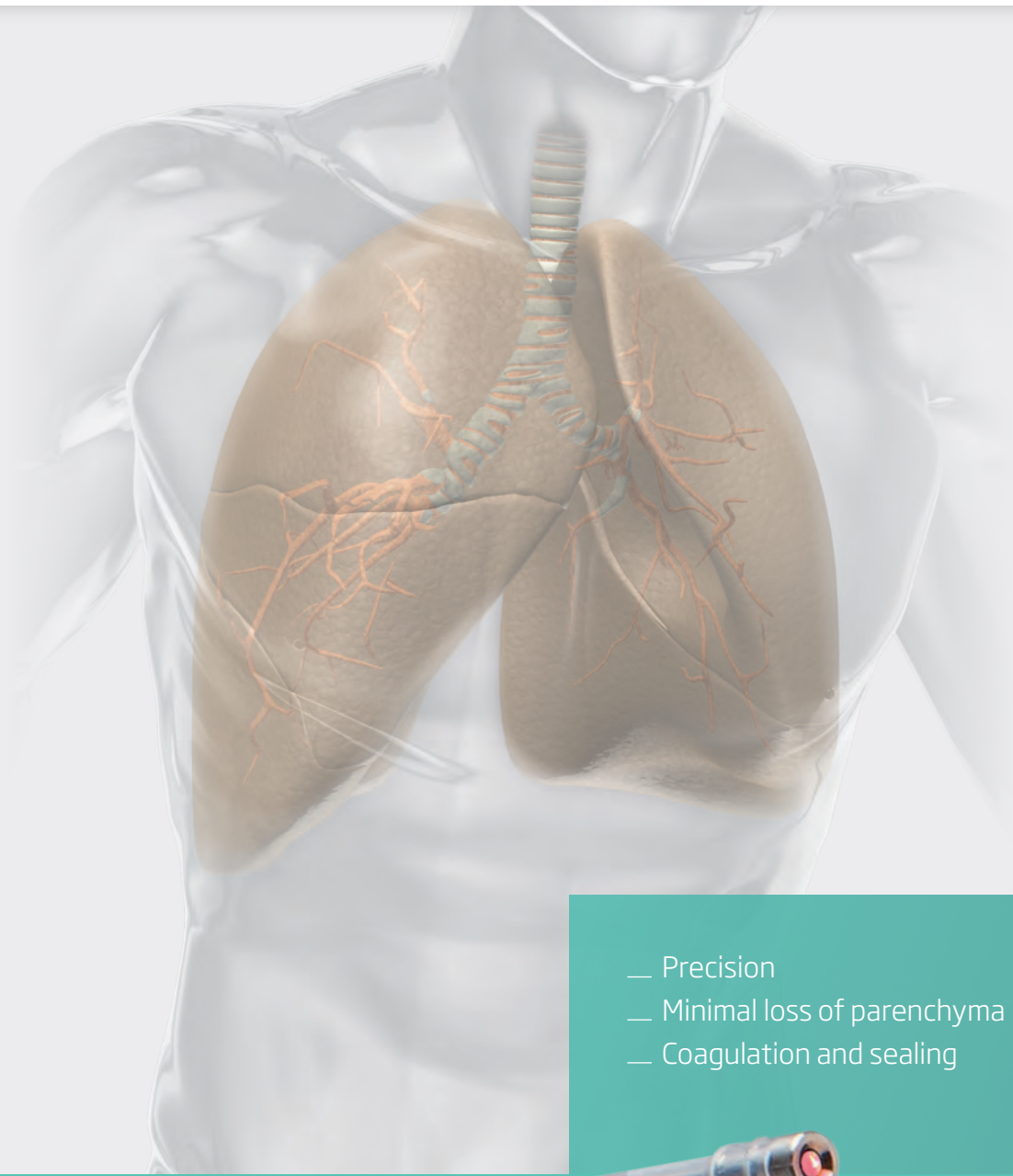
ANNEX 5

THERAPEUTIC BRONCHOSCOPY

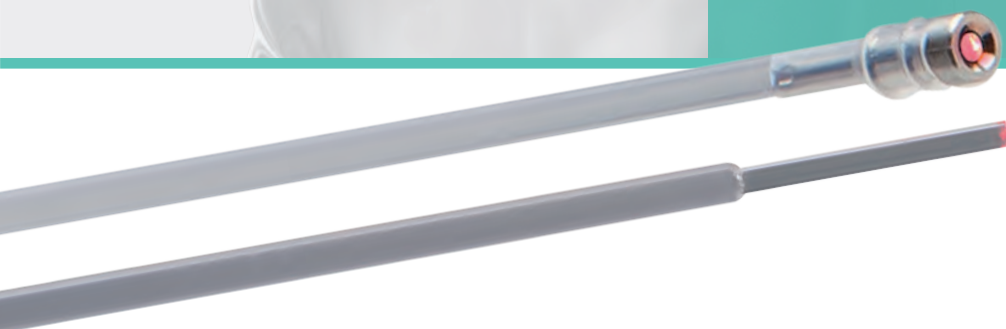
SURGICAL LASER and ACCESSORIES

Thoracic Surgery and Pneumology

Minimally invasive surgery of
lung metastases and bronchial tumors

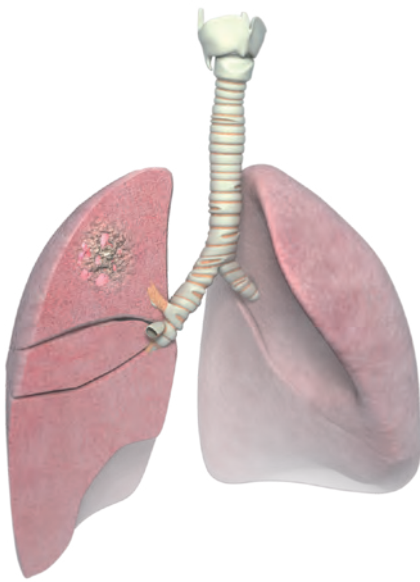


- Precision
- Minimal loss of parenchyma
- Coagulation and sealing

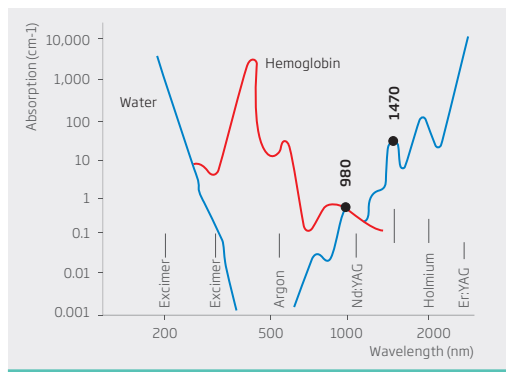


Laser technology in Thoracic Surgery and Pneumology

The use of laser technology in Thoracic Surgery has proved to be clinically effective and beneficial for the patient. In last decades, new developments in laser technology, using state-of-the-art semiconductor diode lasers, delivered high power systems wavelengths in range of 1318 - 1350 nm which has proved to be ideal for parenchymal tissues (lung, kidney). Following its tradition to pioneer new minimally invasive treatments, biolitec® has combined state of art wavelengths mix of 980/1470 nm showing excellent and efficient intra and post operative treatment results. Such diode laser systems are showing high cost effectiveness and reliability with high quality fiber optics and instruments to make procedures safer and more cost effective for health care professionals with an excellent standard of care for the patients.



Advanced diode laser technology by biolitec®



DUAL wavelength
980 + 1470 nm
- new approach and
progress in Thoracic
Surgery

Why?

LEONARDO® DUAL diode machines deliver the combination of advantages of wavelength 980 nm with comparable light absorption in hemoglobin and water which leads in excellent coagulation effect **and** the 40 times higher absorption in water of wavelength 1470 nm that leads to an excellent cutting and vaporization effect, because laser light will be absorbed from lung tissue after a few micrometers.

LEONARDO® DUAL 100 machine gives our users the option to transfer mixed wavelength laser beam to lung tissue, which fulfill the needs of our wavelengths: very high water content and low density. Users could observe that laser renders high ablation rates in lung and tumor tissues while keeping a low and elastic coagulation zone to extremely minimize post operative side effects like an unacceptable leak rate.

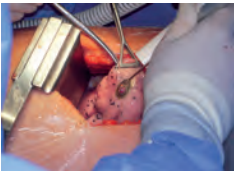
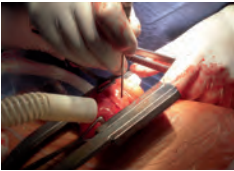
Alternatively available from biolitec® remains diode laser machine with proved, reported and long term tried and tested wavelength 1350 nm for minimal invasive laser surgery in thoracic field.

Benefits

- Cut and coagulate simultaneously
- Sealing properties provide smooth tissue surface
- Parenchyma-saving and lobe-sparing precise resection
- Deep and centrally located metastases can be exposed
- Re-treatment is possible with recurring metastases
- Precise resection of multiple metastases in only one procedure
- Best hemostasis
- Post-operative drainage can be removed shortly after treatment

Applications

Examples for open surgery and laser assisted vats (video assisted thoracoscopic surgery)



- Metastasectomy
- Vaporization of tumors (carcinomas)
- Wedge excision of lung tissue
- Resection of multiple and deep lung metastases
- Recurring metastases and tumors
- Hemostasis and sealing of fistulas
- Adhesiolysis
- Tissue resection for histological examination

Pneumology

- Coagulation and ablation of endobronchial tumors and stenoses
- Remove of bronchial obstructions and fistulas
- Separation of tracheal stenoses
(all treatments are done with rigid or flexible endoscopes)

biolitec® laser systems

Advantages

- Multidisciplinary use for a variety of surgical applications
- Easy to set-up (no additional external cooling or high voltage requirements)
- Reliable diode technology
- Low maintenance cost
- User-friendly

LEONARDO® DUAL 45/100



Model	LEONARDO® DUAL 100	LEONARDO® DUAL 45	Ceralas® HPD
REF	SL980+1470nm100W	SL980+1470nm45W	SH1350nm60W400u
Wavelength	980 nm and 1470 nm	980 nm and 1470 nm	1350 nm
Power max.	max. 100 Watt (1470 nm / 15 Watt + 980 nm /85 Watt), separately adjustable	max. 45 Watt (1470 nm / 15 Watt + 980 nm /30 Watt), separately adjustable	60 Watt
Fiber diameter	≥ 360 µm	≥ 360 µm	≥ 400 µm
Laser class	4	4	4
Aiming beam	532nm und 635nm, green 1 mW, red 4 mW, user controlled intensity	532nm und 635nm, green 1 mW, red 4 mW, user controlled intensity	635 nm +/- 30 nm; PWM 4 mW (max.)
Treatment mode	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode	CW, Pulse Mode
Pulse duration/ -break	0.01 - CW/ 0.01 - 60 sec	0.01 - 60 sec/ 0.01 - 60 sec	variable 0.01 – 99.9 sec or continuous
Power supply	110 - 240 VAC, 50/60 Hz, 600 VA	110 - 240 VAC, 50/60 Hz, 450 VA	100 – 240 VAC, 50/60 Hz, 400 VA
Cooling	-	-	Air cooled system
Dimensions (H × W × D)	approx. 27.50 cm × 37 cm × 8.5 cm	approx. 28 cm × 37 cm × 9 cm	approx. 30 cm × 60 cm × 30 cm
Weight	approx. 8.5 kg	approx. 8.5 kg	approx. 30 kg



CERALAS® HPD
combined with smoke
evacuation system



biolitec® laser systems

LEONARDO® DUAL 100 and Ceralas® HPD

REF	Product
SL980+1470nm100W	Laser Set LEONARDO® DUAL 100
SL980+1470nm45W	Laser Set LEONARDO® DUAL 45
SH1350nm60W400u	Laser Set Ceralas® HPD 1350nm 60W

All laser sets incl. 3 safety goggles, foot switch, interlock connector, power cord and manual in a carrying case. 1350 nm for Thoracic Surgery / Pneumology / General Surgery

Fibers

Bare Fibers Flat Tip

REF	Product	Length [m]	Core ø [µm] / [Fr]	OD ø [µm] / [Fr]
501200745	Bare Fiber 600 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	3	565 / 1.7	860 / 2.6
503200745	Bare Fiber 600 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	3	565 / 1.7	860 / 2.6
501300415	Bare Fiber 1000 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	2.6	945 / 2.9	1400 / 4
503300415	Bare Fiber 1000 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	2.6	945 / 2.9	1400 / 4

Gas Liquid Cooled Fibers

501200525	GLC 180 Gas-, Liquid Cooled fiber, ID (1 × 6 h)	3	565 / 1.7	1800 / 5.4
503200525	GLC 180 Gas-, Liquid Cooled fiber, ID (1 × 6 h)	3	565 / 1.7	1800 / 5.4

Special Fibers

501200990	Jumper for LFHP, ID (1 × 6 h)	3	565 / 1.7	1800 / 5.4
503200990	Jumper for LFHP, ID (1 × 6 h)	3	565 / 1.7	1800 / 5.4

Handpieces and instruments

501200985	Laser Focus Handpiece
500400370	Instrument for Thoracoscopy, with smoke suction adapter, for 600 – 1000 µm fibers
400100100	Universal Dual Luer Handpiece, for 600 – 1000 µm fibers

Accessories

AB2570	Mobile Table for HPD Laser
LA5199	Laser safety goggles 950 – 110 L4 + 1470 L2 (FULL), type: ear piece
LA1371	Laser safety goggles DIR 804 – 1755 L3 (FULL), type: basket, clear
LA5165	Sticker Laser warning 20 × 20 cm
400100115	Medi Strip 0.7/1.2 BF 600 µm, autoclavable – Fiber stripper for BF 600 µm
400100120	Medi Strip 1.0/1.5 BF 1000 µm, autoclavable – Fiber stripper for BF 1000 µm
400100130	Ceramic Fiber Cleaver, autoclavable
AB1908	Touhy Borst Adapter
AB2519	Luer Lock Adapter Female – Female Adapter for GLC fibers
AB2594	Biopsy needle 14 G, 6 cm with cm markings, sterile

Smoke evacuation

MP0016	ATMOSAFE mobile smoke evacuation inclusive autoclavable hose system
MP0017	ATMOS Main filter (ULPA)
MP0018	ATMOS Prefilter (HEPA)
MP0019	ATMOS Air hose, ø 22 mm, L = 2.10 m, single use
MP0020	ATMOS Air hose, ø 22 mm, L = 2.10 m, reusable
MP0021	ATMOS Hose connector straight ø 22 mm to ø 10 mm



YAP 1,34mm Lis LASER SAFETY GLASSES

EN 207 Protection: >1000-1400 D L5 + IR L7



(Ref. LSG134)

ⓐ **BM Low Spectacle**

Model BM Low is made of high quality plastic, and is very robust, light and comfortable to wear. It offers the user an excellent field of vision.

ⓓ **BM Low Bügelbrille**

Typ BM Low ist aus hochwertigem Kunststoff gefertigt, robust, leicht und bequem zu tragen. Sie bietet ein großes Sichtfeld.

ⓕ **BM Low Lunettes**

BM Low est fabriquée d'un plastique de grande qualité. Elle est robuste, légère et confortable à porter. Un large champ visuel est offert par la BM Low.

ⓐ **Encore™ – Small and Large Versions**

The Encore™ spectacle, with its pleasant nylon frame, is comfortable to wear, even for long periods of time. It fits well over corrective spectacles, but can also be worn without them. The temples can be bent into shape to achieve a perfect individual fit.

ⓓ **Encore™ – Kleine und Große Versionen**

Die Encore™ Bügelbrille, mit ihrer angenehmen Fassung aus Nylon, ist bequem zu tragen – auch über einen längeren Zeitraum. Sie passt hervorragend über Korrektionsbrillen, ist aber auch ohne Korrektionsbrille angenehm zu tragen. Die Seitenbügel können einfach gebogen werden, um einen perfekten Sitz der Brille zu erreichen.

ⓕ **Encore™ – Petite et Grande Version**

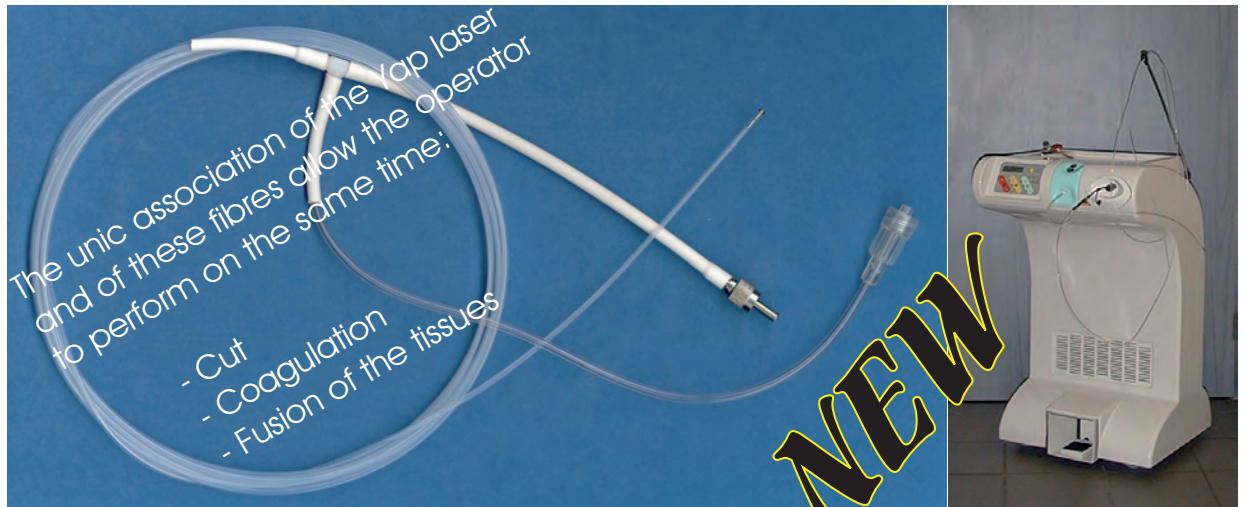
De part sa monture en nylon, les lunettes Encore™ restent confortables même pendant une utilisation de longue durée. Elles offrent un grand confort d'utilisation avec ou sans lunettes correctrices. Les branches sont facilement réglables afin de s'ajuster parfaitement à l'utilisateur.



(Ref. LSG134ENCORE/L)



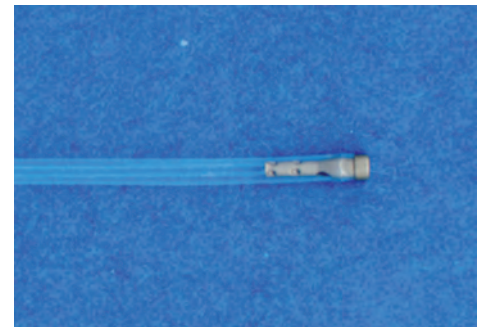
MediSurge®-Yap® Laser Fibres



These low OH fibres are specially designed to be used in association with the LOKKI Lis Yap 1,34 μm Laser for surgical and Endoscopic applications. These fibres are disposable.

Disposable fibres exist in both contact (FN600, FNC600) and none contact (FV600) mode.

Set Gas Cooled Head (FV600)



REFERENCE:	FN600 / FNC600	FV600
TECHNICAL FEATURES:	LOW OH ⁻	
OUTER DIAMETER OF THE FIBRE:	0,95mm	1,8 mm
DIAMETER OF THE CORE:	600 microns	
WORKING LENGTH:	3,00 m	
LASER CONNECTION :	SMA 905	
PACKAGING:	BOX OF 5 FIBRES	
STERILE (EtO):	DISPOSABLE - SHELF TIME 3 YEARS	
GAS COOLED:	NO	YES
DISTAL TIP:	FN600: SQUARE	SQUARE
	FNC600: CONICAL	
PACKAGING:	DOUBLE POUCH	

Manufactured by **Ceramoptec®** —  - 1984

MediSurge s.a.s. - 17, Boulevard SCHLOESING - 13010 MARSEILLE - FRANCE
Phone: +33 4 96 14 00 84 - Fax: +33 4 96 14 04 91 - email: info@medisurge.net - www.medisurge.net

ANNEX 6

THERAPEUTIC BRONCHOSCOPY

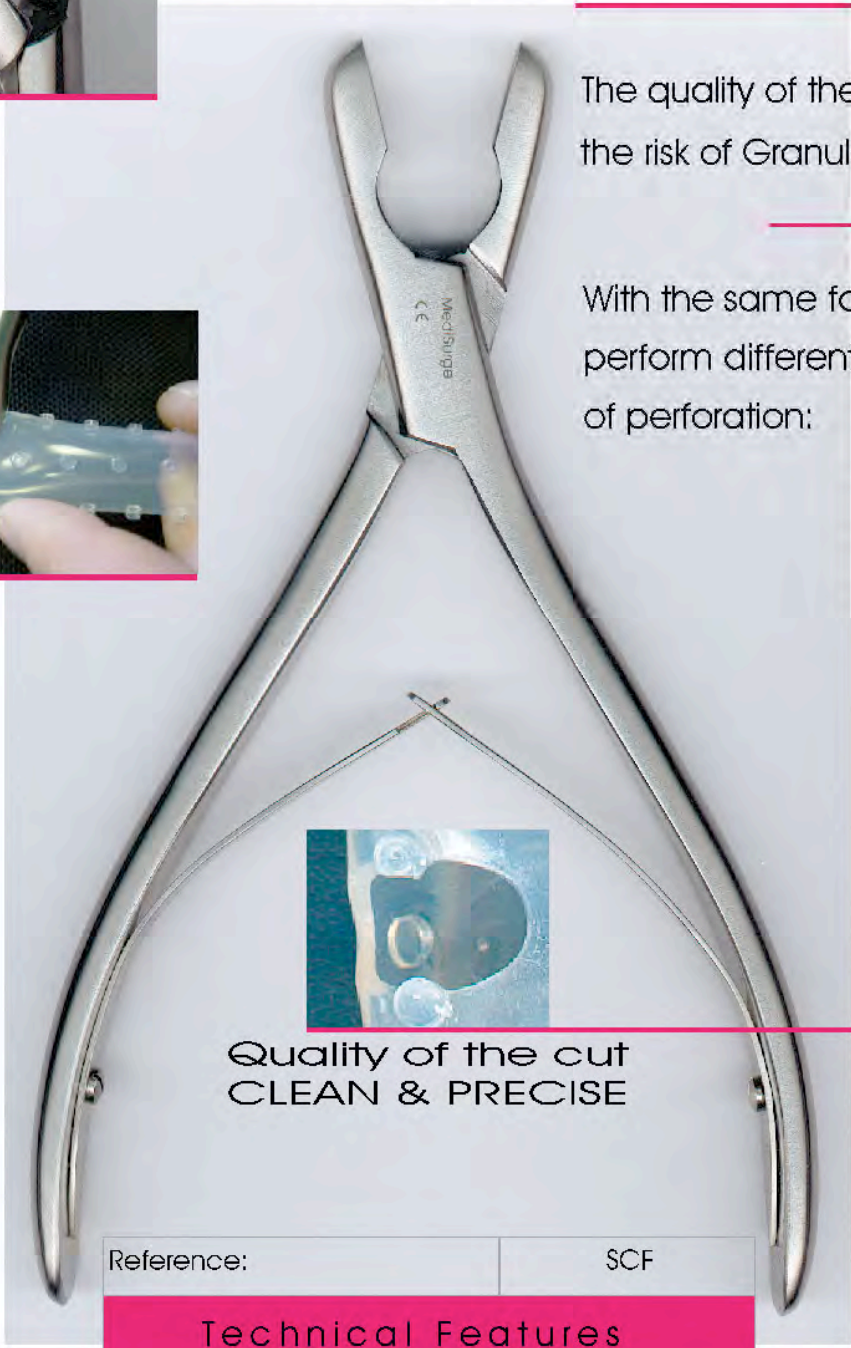
STENT CUT FORCEPS



OPEN OVAL SHAPE JAWS



With this forceps, you can open a window in the Silicone stent you placed in your patient. This window will allow the ventilation of the safe surrounding bronchi (ex: Right upper Lobe)



The quality of the cut minimize the risk of Granulomas formation

With the same forceps, you may perform different size and shapes of perforation:

- Round,
- Oval,
- Heart shape

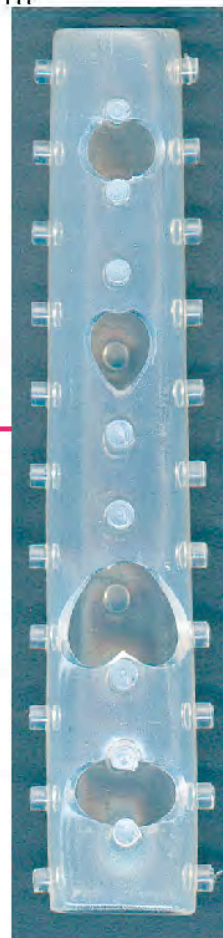
Quality of the cut
CLEAN & PRECISE

Reference:	SCF
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Technical Features

Material:	Stainless Steel
Shaft Length:	180,00 mm
Head Diameter:	8,00 mm
Head Active Length:	10,00 mm

*too strong material cut may damage the forceps



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ANNEX 8

THORACOSCOPY / PLEUROSCOPY

RIGID THORACOSCOPES PLEUROSCOPES & ACCESSORIES



RIGID ENDOSCOPY

New Line

INCLUDING THE LATEST TECHNOLOGIES IN ROD LENS RIGID OPTICS,
THESE ENDOSCOPES DISPLAY AN OPTIMAL SHARP AND BRIGHT IMAGE.



SERVICE

WE ASSUME AFTER SALE SERVICE ON OUR
AND RIVAL OPTICS.
IN CASE OF HEAVY REPAIR WE PROPOSE
FOR OUR OPTICS AS WELL AS FOR RIVALS
ONES STANDARD EXCHANGE SOLUTIONS.

ACCESSORIES

WE SUPPLY ALL THE NECESSARY
CANNULAS AND TROCARS FOR
OUR OPTICS. PLEASE CONTACT
FOR A QUOTATION.

LAPAROSCOPES / THORACOSCOPES / PLEUROSCOPES

REFERENCE	LAP 1000 TH 1000	LAP 1030 TH 1030	TH 1045	PL 7000	PL 7070	LAP 0500	LAP 0530
TECHNICAL FEATURES							
DIAMETER	10mm	10mm	10mm	7mm	7mm	5mm	5mm
WORKING LENGTH	320	320	320	302	302	320	320
DIRECTION OF VIEW							
OPTICAL TECHNOLOGY	HIGH RESOLUTION ROD LENS - 70°						
LIGHT GUIDE CONNECTORS	STORZ / WOLF / ACMI						
AUTOCLAVABLE	134° - 18MIN - 2 BARS						

ON REQUEST : OPERATING LAPAROSCOPE PELVISCOPE 10MM WITH OPERATING CHANNEL

ARTHROSCOPES AND CYSTOSCOPES - SUPPLIED WITH AUTOCLAVE PROTECTION SHEATH

REFERENCE	ART 4000	ART 4030	ART 4070	CY 4000	CY 4030	CY 4070
TECHNICAL FEATURES						
DIAMETER	4,0mm					
WORKING LENGTH	175 mm			302 mm		
DIRECTION OF VIEW						
FIELD OF VIEW	120°			90°		
OPTICAL TECHNOLOGY	ROD LENS - HIGH RESOLUTION					
LIGHT GUIDE CONNECTORS	STORZ / WOLF / ACMI					
AUTOCLAVABLE	134° - 18MIN - 2 BARS					

Manufactured by



SOPRO COMEG
see the difference

CE - 0123

LIGHT GUIDES

OUR FLEXIBLE LIGHT GUIDES ARE FULLY AUTOCLAVABLE.

FOR USE WITH HIGH POWER XENON LIGHT SOURCES, WE OFFER EVEN HEAT RESISTANT SPECIAL CABLES.

SPECIAL APPLICATION CABLES ARE AVAILABLE LIKE TWIN LIGHT SOURCE OR ENDOSCOPE CONNEXIONS (Y CABLES)

OUR LIGHT GUIDES ARE AVAILABLE IN THE FOLLOWING DIMENSIONS:



DIMENSIONS	STANDARD	HEAT RESISTANT
Φ 3,5 mm / L. 1,8 m	GO135	GL135
Φ 3,5 mm / L. 2,3 m	GO235	GL235
Φ 4,9 mm / L. 1,8 m	GO149	GL149
Φ 4,9 mm / L. 2,3 m	GO249	GL249
Φ 4,9 mm / L. 3,0 m	GO349	GL349
Φ 4,9 mm / L. 1,1 m - Φ 3,5 mm / L. 1,2 m	GYE235	
Φ 3,5 mm / L. 0,6 m - Φ 4,9 mm / L. 1,7 m	GYS235	

IN ORDER TO PERFECTLY ANSWER YOUR NEEDS, OUR LIGHT GUIDES ARE REFERENCED WITH OUT LIGHT SOURCE AND ENDOSCOPE CONNECTORS. YOU CAN THEN CHOOSE IN OUR RANGE OF ADAPTORS FOR ALL THE MAJOR BRAND COMPATIBILITY.

	REF.	LIGHT SOURCE SIDE	REF.	ENDOSCOPE SIDE
STORZ	LSTORZ		ESTORZ	
WOLF	LWOLF		EWOLF	
WOLF SNAP			ESWOLF	
ACM	LACM		EACM	
OLYMPUS	LOLYMPUS			

LIGHT SOURCE

WE SUPPLY HIGH POWER 180W XENON LIGHT SOURCES FOR SURGICAL APPLICATION.

THEY SUPPLY BRIGHT AND HOMOGENEOUS LIGHTING SUITABLE FOR SHARP IMAGING ON DIRECT VISION OR ON A MONITOR.

SPECIFICATIONS:

- ↪ 180 W XENON LAMP - 6000°K,
- ↪ LAMP DURATION 500 H,
- ↪ AUTOMATIC IGNITION,
- ↪ 100-250V, 50-400Hz POWER SUPPLY,
- ↪ LIGHT GUIDE CONNECTING BASE TO BE SPECIFIED WHEN ORDERING,



DISTRIBUTION:

ANNEX 9

THORACOSCOPY / PLEUROSCOPY

STERILE TALC SPRAY NOZZLE – Trocars

TALC SPRAY NOZZLE



Precise Spraying / Pulvérisation Précise

To be used with
Sterile talc powder

Utiliser avec poudre
de talc stérile

Spray Nozzle with bellows for Talkum powder, autoclavable, with rotatable connection, tube double angle, Dia 5mm, 300mm working length

Advantages:

- The tube with "SATINSKY" form has an extended radius of action
- The pick-up of the tube is now 360° rotatable and offers an optimal handling of the wrist
- Availability of the complete accessories as top up funnel, spare glasses, glass lock screw in high grade steel, adaptation for specifically two hand operation.



Talc Vial / Fiole de Talc

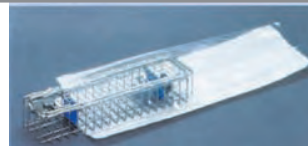
Ce système de pulvérisation est proposé avec fiole pour poudre de talc, autoclavable, avec connexion tournante, tube double angulation, Dia. 5,00 mm et Longueur utile 300,00 mm

Avantages:

- Le tube en forme type "SATINSKY" présente un grand rayon d'action
- Le tube autorise une rotation de 360° et offre une maniabilité optimale
- Disponibilité d'accessoires tels que Tube courbe, Fiole de remplacement, Vis de blocage de fiole en acier de haute qualité, adapté pour les manipulations à deux mains.

Reference:	TSND*
Technical Features	
Material:	Stainless Steel
Shaft Length:	300,00 mm
Tube Diameter:	5,00 mm
Total Length:	420,00 mm
Autoclavable:	134°C - 18' - 2,2 Bars

* INCLUDES A STICK-IN PIN FOR DIRECT PLUG-IN TO THE TALC BOTTLE



Sterilisation:

For sterilisation purpose, you may use our dedicated basket

Pour la stérilisation, vous pouvez utiliser notre panier dédié

Reference: PSTSN4680

