



MADE IN FRANCE



YOUR HYGIENE PARTNER

LTA
medical

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ABOUT US

With manufacturing entirely based in France, LTA Medical specialises in the design and production of high quality brushes used by CSSDs in the cleaning and reprocessing of medical devices and endoscopy equipment.

In 1993 Julien Bourrelly took his family experience of brush manufacturing and directed his focus on producing specifically designed brushes for CSSDs & providing a highly customer focused service in doing so.

The ethos of being a reliable and trusted partner for its' customers and offering high quality products continues to this day.

VALUES & PRINCIPLES

LTA's goal is the innovation and development of products that optimise hygiene by greater cleaning effectiveness.

The company continually provides its' customers with dedicated attention and through training, monitoring and education, the company is able to repeatedly supply solutions and tools to fulfill customer needs and demands.

WHY CHOOSE LTA?

The company continues to comprehensively invest in deep research into hospital and endoscopy needs as well as brush performance and cutting edge materials.

LTA integrates the most relevant and advantageous technologies and components (such as nickel-titanium alloys, non-absorbent fibres, etc...) to produce the highest quality and most reliable channel and external brushes available to CSSDs and Endoscopy departments.

THE ADVANTAGES OF THE LTA PRODUCT RANGE

By choosing to use LTA brushes you can be assured of a long held dedication to quality and design.

A selection of reusable and single use brushes for internal and external cleaning of medical devices and equipment all constructed from components that have been carefully selected on multiple, such as their longevity, efficiency of cleaning and resistance to wear and tear.

The brushes are high quality, designed to be stainless steel compatible, ensuring that the surface of expensive and delicate medical devices and equipment remains uncompromised.



The range of brushes are also subject to regular stress testing to ensure reliable optimum use.

Long lasting and low absorption thermoplastic brush head fibers of varying rigidity allow LTA to bring to the market a comprehensive range of brushes, each individually tailored to the particular demands of any cleaning requirement.

Ensure that customers obtain the best results LTA also provides tried and tested guidance when it comes to cleaning techniques and equipment to guarantee the most effective use of their products, thereby continually optimising hygiene.



HEALTHMARK

In 2018 LTA was acquired by Healthmark Industries.
A formidable and globally active US based company that leads the way in the sterile services supply chain.

Healthmark are world renown for designing, developing and marketing world leading innovative technologies to ensure the safe processing of clinically used medical devices.

Established in 1969 by Ralph and Suzanne Basile, Healthmark is now owned and run by their three sons, Mark, Ralph and Steve Basile and continues to be a family lead business with the introduction of Daniel Basile into the role of Finance Director.

Healthmark provide world leading expertise in the design, production and implementation of cutting edge product technologies for CSSDs and in 2018 posted a revenue of \$70 million USD.

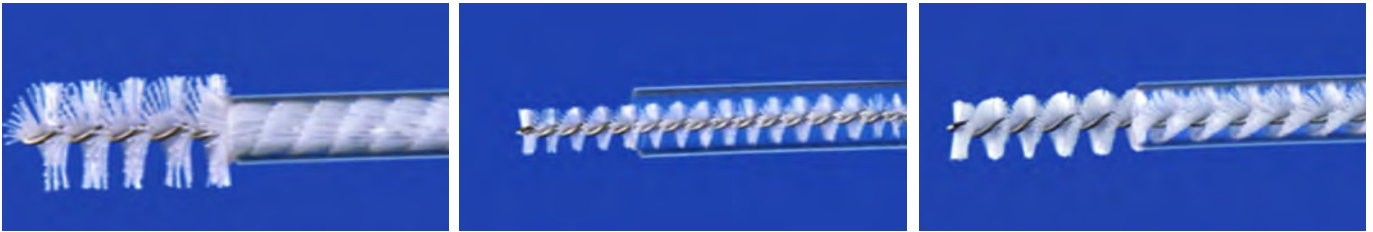
As well as carrying full ISO Certification with in-house ISO expertise, they provide comprehensive in house employee training as well as world leading CSSD training to suit customer needs.

Healthmark shares a great number of values with LTA such as intense focus on customer needs, demands and service, the innovation of new technologies and materials to develop world class leading products, comprehensive research into and knowledge of the CSSD industry, customer and employee training.

All of which will ensure a seamless transition for LTA whilst taking the business to the next level.

DIAMETER

Channel and brush diameter considerations are critical to ensure the brush heads make contact with the surface correctly.



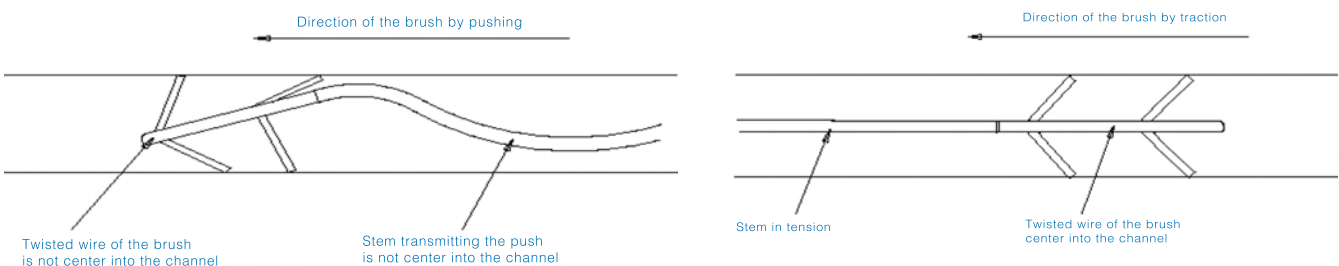
If the brush diameter exceeds the channel diameter then the brush fibres become excessively compressed. The brush may slide within the channel but it does not brush the contaminated surface.

If the channel diameter exceeds the brush diameter then the fibers of the brush head will fail to make contact with the contaminated surface.

With the correct choice of brush the extremities of the fibers make contact with the channel surface at the right angle and under the right degree of tension.

CHANNEL LENGTH

A channel brush with an excessively long shaft can increase the time taken introducing the brush head to the channel as well as increasing the risk of splash back as the user rushes the thread through the channel. It can also impact upon the control ability of the brush head, introducing leverage issues and thereby compromise efficient cleaning.



Here the principal of traction comes into play when considering channels that are open ended.

By pushing the brush through the channel the compression force can distort the shape and position of the brush stem within the channel. This can lead to brush fibers either becoming compressed against the surface (sliding) or missing areas of the contaminated surface all together.

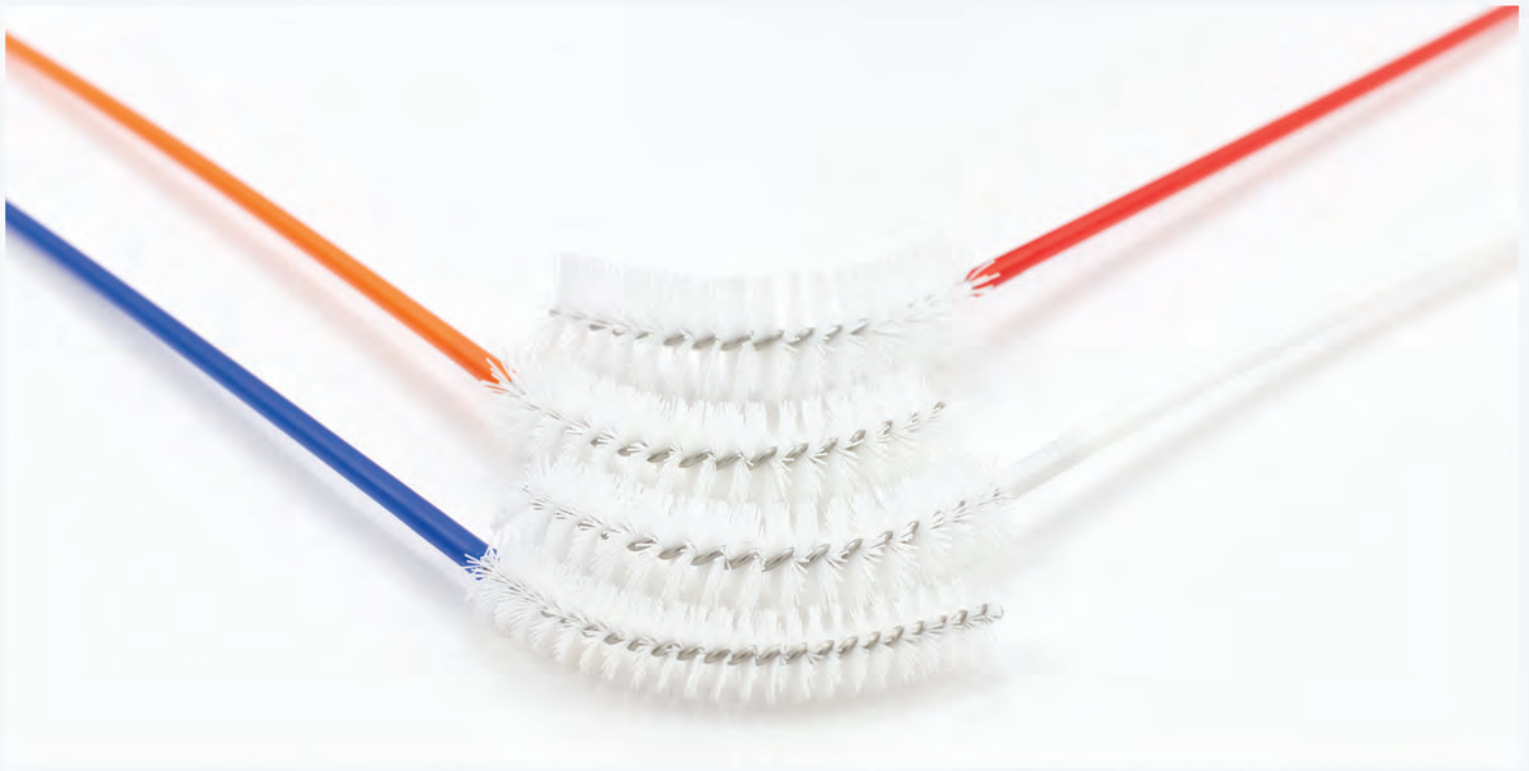
Under traction the brush stem sits in the centre of the channel and the brush fibers make contact at the right angle with the contaminated surface.



CLEANING CONSIDERATIONS

EXTERNAL CLEANING

While we can appreciate that cleaning the internal surfaces of medical devices requires a degree of care and thought, it is easy to underestimate the need for the same degree of consideration when cleaning exterior surfaces.



The following three criteria should always be considered before carrying out cleaning of external surfaces

DEVICE FRAGILITY

Devices and equipment come in varying materials, often combined.

The LTA brushes have been specifically designed for this consideration and brushes of varying rigidity are readily available, with fibers that are stainless steel compatible to ensure seemingly robust surfaces remain intact.

BRUSH SIZE

In addition to a wide range of brush matrices, LTA produces brushes of varying sizes to ensure the right brush for the right job. The right brush for the right job maximises cleaning efficiency and therefore hygiene.

DEVICE CONFIGURATION

With the variety of surfaces and cleaning demands that SSDs have to contend with, LTA carries out continued research, development and testing of brush fibers and brush design to ensure the most challenging of medical devices can be cleaned correctly & thoroughly.

As an example, orthopedic equipment can produce some of the most challenging cleaning where hard fragment contamination can be physically difficult to remove, unlike the contamination typically experienced on the outer surfaces of endoscopes.

An LTA brush is the right brush for the right job.



A changeable brush head channel brush for channel diameters 3 mm to 40 mm with an unbreakable flexible wand of 25 or 50 cm.

A reusable internal brush with a renewable head suitable for a range of channel and lumen cleaning; Suitable for use with trocars, boring mandrels, regulators, laparoscopy shirts, liposuction cannulas, resectors, cystoscopes, ureteroscope, urethrothomes, nephroscopes etc.

DISINFECTION PROCEDURE

Decontaminate and rinse after each brushing.

Maximum number of sterilisations:

100 cycles for brushes and 600 cycles for the wand.

Sterilise G-Flex in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Internal Diameter of Channel		25cm wand	50cm wand	Refills (3 brushes)	Estimated renewal frequency	Disposable refills (30 brushes)	Brush renewal frequency
Min	Max						
3 mm	4 mm	610 - 25SP	610 - 50SP	610 - 00	2 months	610-SU	1 Per day
4 mm	5 mm	620 - 25SP	620 - 50SP	620 - 00		620-SU	
5 mm	6 mm	630 - 25SP	630 - 50SP	630 - 00		630-SU	
6 mm	8 mm	635 - 25SP	635 - 50SP	635 - 00		635-SU	
8 mm	10 mm	640 - 25SP	640 - 50SP	640 - 00	3 months	640-SU	
10 mm	13 mm	655 - 25SP	655 - 50SP	655 - 00		655-SU	
13 mm	20 mm	680 - 25SP	680 - 50SP	680 - 00		680-SU	
20 mm	30 mm	685 - 25SP	685 - 50SP	685 - 00			
30 mm	40 mm	690 - 25SP	690 - 50SP	690 - 00			



THE MICROFLEX

A fixed channel brush with flexible stem for internal cleaning of small lumens from 1 to 5 mm.

The Microflex is a small and super flexible fixed head brush attached to a nitinol wand. This high quality brush is longer than our competitors equivalent and has stainless steel compatible fibers to ensure medical devices and equipment remain unmarked after use.

The diameter range of 1 to 5 mm makes the Microflex suitable for long laparoscopy, aspiration and irrigation cannula, trocars, puncture needles equipment etc...

DISINFECTION PROCEDURE

Decontaminate and rinse after each brushing. Maximum number of sterilisations: 60 cycles. Sterilise Microflex in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Internal Diameter of Channel		30cm wand	50cm wand	75cm wand	Estimated renewal frequency
Min	Max				
1.0 mm	1.4 mm	740 - 30	740 - 50	740 - 75	1 month
1.4 mm	2.4 mm	750 - 30	750 - 50	750 - 75	2 months
2.4 mm	3.4 mm	760 - 30	760 - 50	760 - 75	
3.4 mm	4.4 mm	770 - 30	770 - 50	770 - 75	
4.0 mm	5.0 mm	780 - 30	780 - 50	780 - 75	



A fixed rigid channel brush for channel diameters 1,6 mm to 4,3 mm

A reusable internal brush with an soft easy grip handle offering maximum user manoeuverability and channel penetration. Suitable for use with coelioscopy connections and taps (4 cm length), ENT aspiration cannulas handpieces, stomatology connectors, mandrels, cannulas, orthopaedic motor, dissectors, rizzoti etc...

DISINFECTION PROCEDURE

Decontaminate and rinse after each brushing. Maximum number of sterilisation: 30 cycles. Sterilise R-Flex in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Internal Diameter of Channel		4cm wand	12cm wand	Estimated renewal frequency
Min	Max			
1.6 mm	2.2 mm	R4 - 1622	R - 1622	1 month
2.3 mm	3.2 mm	R4 - 2332	R - 2332	
3.4 mm	4.3 mm	R4 - 3343	R - 3343	



EXTERNAL BRUSHES

For normal external cleaning of devices and equipment, a range of brushes of varying rigidity with stainless steel compatible bristles

The general purpose external cleaning brushes are colour coded to represent their variance in rigidity and suitability for different tasks.

The brush handles are ergonomically designed to provide the user with an easy and maneuverable grip whilst each brush carries a specific identification code to aid traceability.

DISINFECTION PROCEDURE

Decontaminate and rinse after every use

Maximum number of sterilisation: 100 cycles.

For cleaning in washing machine and for sterilise put the brush in a sterilisation box.

Sterilise the brushes in accordance with the usual procedures sterilisable medical devices.

Reference	Rigidity	Estimated renewal frequency	Colour code	Applications
510C	High	2 months	Blue	Very intense cleaning
510	High to Medium	3 months	Green	Intense cleaning
520	Medium	3 months	Yellow	Ordinary cleaning
530	Soft	2 months	White	Delicate cleaning



EXTERNAL ORTHOPEDIC BRUSHES

Stainless steel compatible fibers with a range of specially designed brush heads to accommodate the demands of orthopedic cleaning.

The 500 series range extends to brushes which are available in a wide range of fiber rigidities as well as brush head designs. This ensures the greatest range of choice for the user when it comes to the robust cleaning of instruments such as cotyle reamers, orthopedic shavers and orthopedic rasps.

A selection of brushes is also available for vigorous yet precision cleaning fitted with the same stainless steel compatible bristles to permit robust and comprehensive cleaning without compromising the surface of devices and equipment.





THE RASP BRUSH

DISINFECTION PROCEDURE

Decontaminate and rinse after every use

Maximum number of sterilisation: 60 cycles.

For cleaning in washing machine and for sterilise put the brush in a sterilisation box.

Sterilise the brushes in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Reference	Rigidity	Estimated renewal frequency	Applications
550	Medium	2 months	Intense cleaning
550C	High	1 month	Very intense cleaning



ORTHOPEDIC SHAVER BRUSH

DISINFECTION PROCEDURE

Decontaminate and rinse after every use

Maximum number of sterilisation: 60 cycles.

For cleaning in washing machine and for sterilise put the brush in a sterilisation box.

Sterilise the brushes in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Reference	Rigidity	Estimated renewal frequency	Applications
565	Medium	2 months	Orthopedic shaver



ORTHOPEDIC COTYLE REAMER BRUSH

DISINFECTION PROCEDURE

Decontaminate and rinse after every use

Maximum number of sterilisation: 60 cycles for the 540 and 30 cycles for the 545.

For cleaning in washing machine and for sterilise put the brush in a sterilisation box.

Sterilise the brushes in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Reference	Rigidity	Estimated renewal frequency	Applications
540	High	2 months	Intense cleaning
545	High	1 month	Intense cleaning



560



560C



560 Curve



570

EXTERNAL PRECISION BRUSHES

The 500 series of brushes includes a selection for precision cleaning for general purpose precision cleaning or for detailed work on orthopedic equipment.

The bristles remain compatible with stainless steel surfaces to ensure equipment remains uncompromised.

DISINFECTION PROCEDURE

Decontaminate and rinse after every use

Maximum number of sterilisations: 30 cycles for the 560, 570 and 560C.

For cleaning in washing machine and for sterilise put the brush in a sterilisation box.

Sterilise the brushes in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Reference	Rigidity	Estimated renewal frequency	Applications
560	Rigid	1 month	Intense precision cleaning
560C	Short rigid fiber		Very intense precision cleaning
560 Curve	Curved rigid fiber		Intense precision cleaning
570	Rigid fiber		Intense precision cleaning



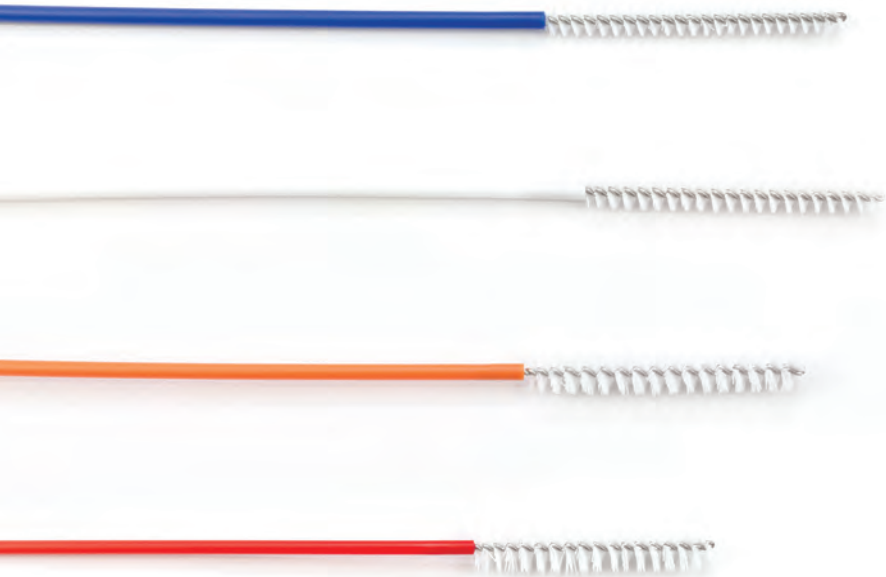
EXTERNAL DELICATE BRUSHES

For extremely delicate cleaning of fragile equipment such as microsurgical or ophthalmological devices the 430 brush is ideal, offering soft delicate fibres that strike the right balance between the ability to clean with maximum softness, whilst the soft easy grip handle and the shorter overall size of the brush provides for maximum cleaning control.

DISINFECTION PROCEDURE

Decontaminate and rinse after every use Maximum number of sterilisations: 60 cycles
For cleaning in washing machine and for sterilise put the brush in a sterilisation box.
Sterilise the brushes in accordance with the usual procedures sterilisable medical devices (up to 134°C or 273.2°F – 18 minutes).

Reference	Rigidity	Estimated renewal frequency	Applications
430	Soft fibers	2 months	Soft cleaning
410	Rigid fibers	3 months	Intense cleaning

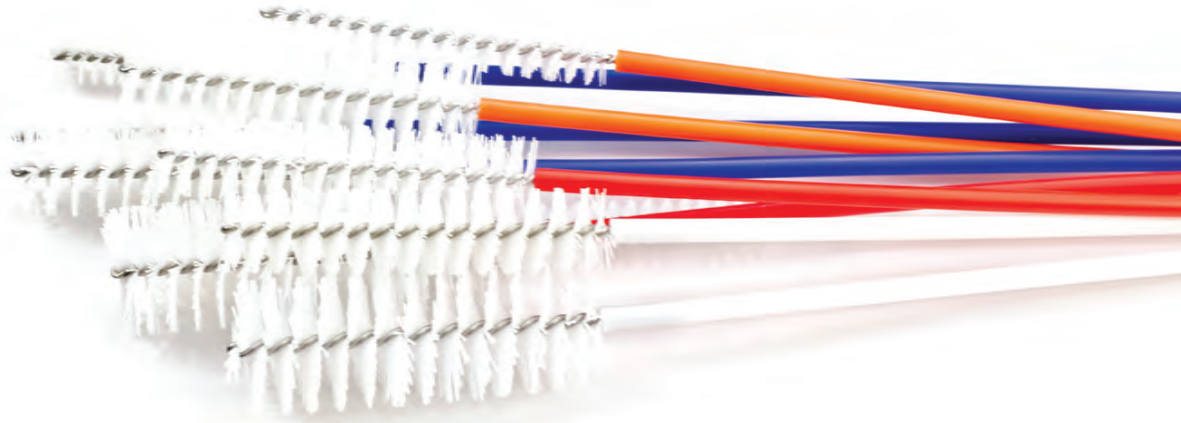


SU MICRO RANGE

The SU Micro range caters for channels 1.2 to 5 mm as is suitable for use tong laparoscopy, aspiration and irrigation cannula, trocars, puncture needles etc.

Diameter	Reference length	Colour code
1.2 to 1.5 mm	055 - 1215/50	Blue
1.8 to 2.4 mm	055 - 1824/50	White
2.6 to 3.2 mm	055 - 2632/50	Orange
3.7 to 5.0 mm	055 - 3748/50	Red

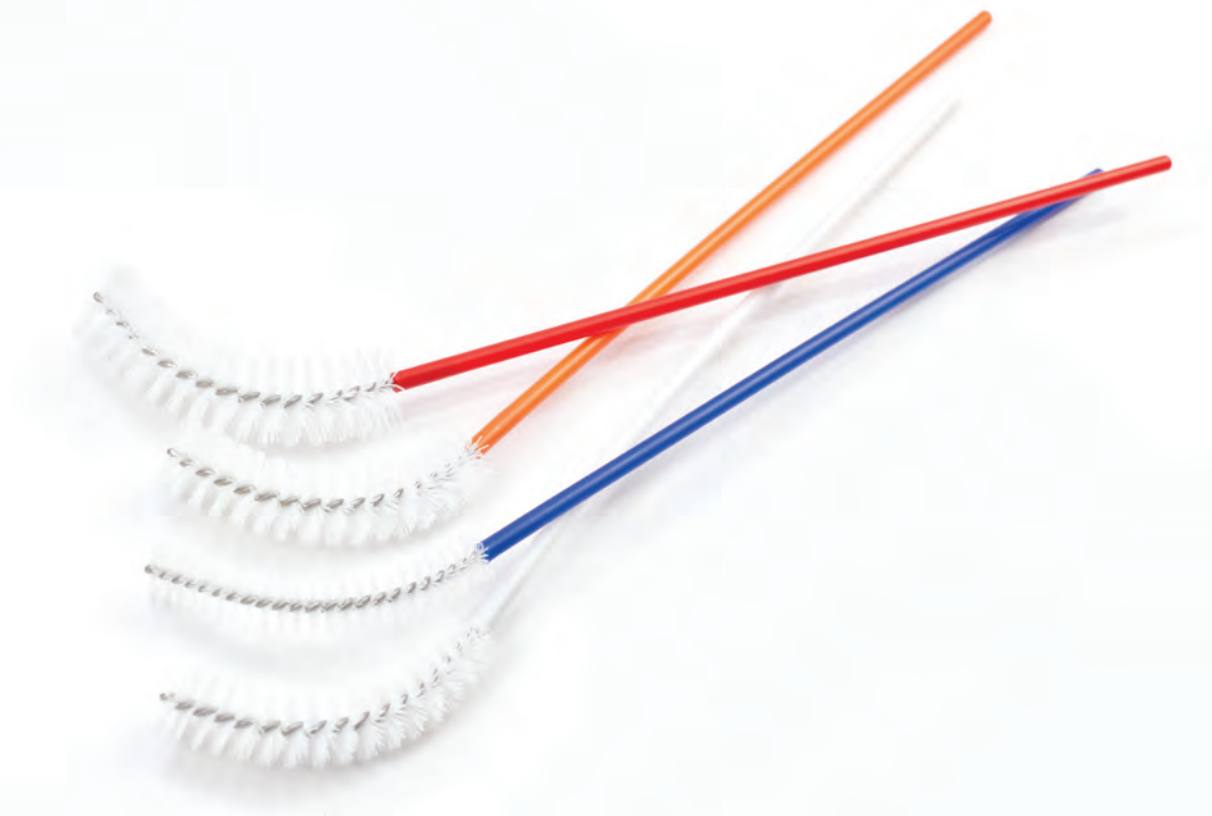
EXTERNAL DISPOSABLE BRUSHES



SU L RANGE

The SU L range provides for channel diameters of 4 to 16 mm and is suitable for trocars, boring, mandrels, regulators, laparoscopy shirts, liposuction cannulas, resectors, cystoscopes, ureteroscopes, urethrothomes, nephroscopes etc...

Diameter	Reference 55 cm length	Colour code
4 to 5 mm	SUL05/50	Blue
4.5 to 5.5 mm	SUL0,5/50	White
5.5 to 7.0 mm	SUL07/50	Orange
7 to 9 mm	SUL09/50	Red
12 to 16 mm	SUL16/50	White



SU CT RANGE

The SU CT brushes have been designed specifically for the cleaning of tracheal cannulas, ranging from 6 to 12 mm diameters.

Cannula diameter	Reference (Box of 50)	Colour code
6 to 7 mm	SUCT01/50	Blue
8 to 9 mm	SUCT02/50	White
10 mm	SUCT03/50	Orange
11 to 12 mm	SUCT04/50	Red

EXTERNAL DISPOSABLE BRUSHES

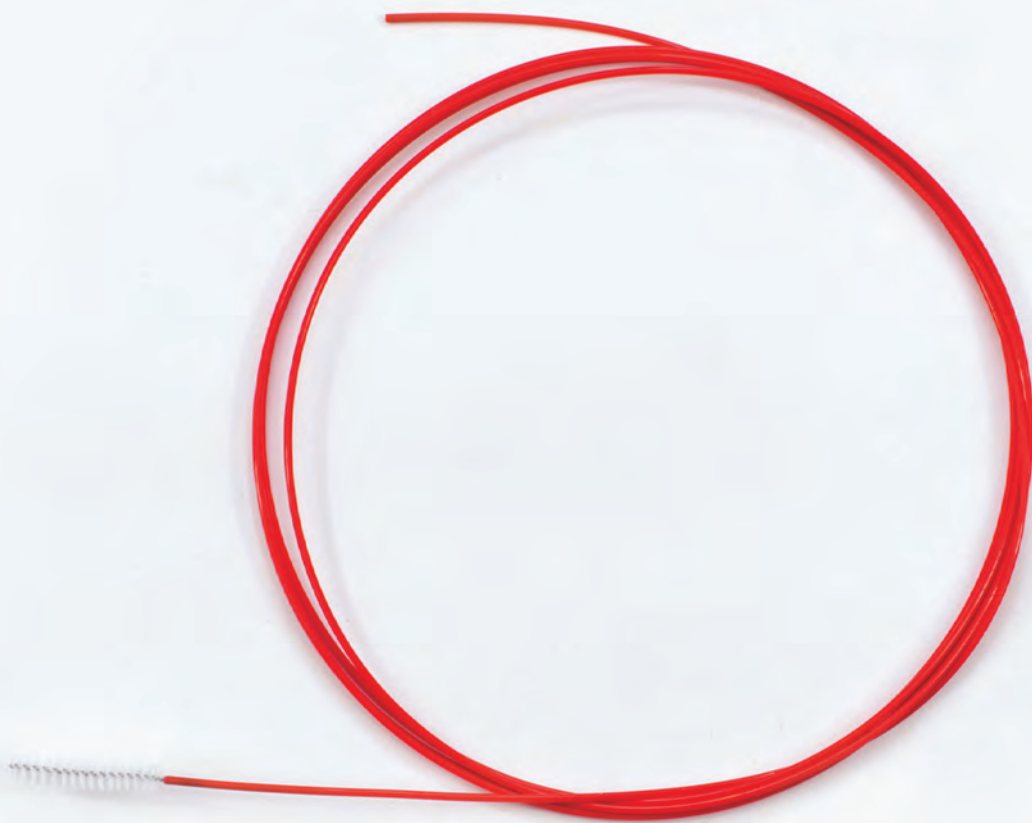


SUBE RANGE

Intended for single use, these simple colour co-ordinated hand brushes are ideal for general purpose and intense cleaning.

The yellow SUBEM is fitted with soft filament fibers for general purpose cleaning, whilst the SUBER brush (green) comes equipped with a more rigid brush matrix for more demanding surface soiling. The fibers of both brushes are stainless steel compatible, ensuring the surfaces of devices and equipment are not scathed or scratched during the cleaning process.

Reference	Rigidity	Application	Colour code
SUBEM/50	Medium fiber	Regular Cleaning	Yellow
SUBER/50	Rigid	Intense Cleaning	Green



DISPOSABLE ENDOSCOPY BRUSHES

INDIVIDUALS

LTA's range of single use endoscopy brushes provides for the correct and thorough cleaning of the operating, aspiration, water and air jet channels of bronchial, gynecological, urology and digestive endoscopes.

The brush sizes range from 1,2 mm to 5 mm and are colour coded to aid rapid brush identification and with a tolerance guide to ensure the correct contact between the fibers tips and the inner surface of the channel.

The reference of the channel brush allows the users to work with the correct channel brush
The 1215 channel brush fits from 1,2 mm to 1,5 mm.

All diameters are available in different length from 30 cm to 300 cm.

SINGLE CHANNEL BRUSH				
Diameter	1215	1824	2632	3748
Colour Code	BLUE	WHITE	ORANGE	RED

BRONCHIAL, UROLOGY, GYNECOLOGY				
30 cm	x	x	30 - 2632/50	x
100 cm	100 - 1215/50	100 - 1824/50	100 - 2632/50	100 - 3748/50

DIGESTIVE FLEXIBLE SCOPES				
200 cm	200 - 1215/50	200 - 1824/50	200 - 2632/50	200 - 3748/50

SPECIALLY FOR ENTEROSCOPES				
300 cm	300 - 1215/50	300 - 1824/50	300 - 2632/50	300 - 3748/50

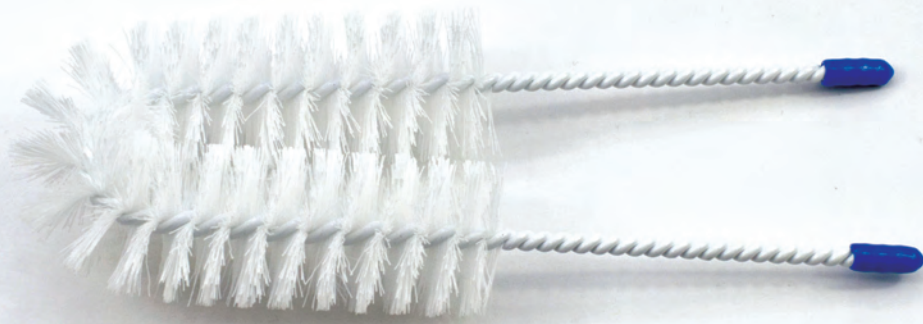


SULV

Endoscope valves, pistons and connections are also catered for using LTA's SULV & SUBS code brushes.

The SULV brushes are constructed with a stainless steel core bearing thermoplastic low absorbent fibers. The brushes are light weight yet incredibly strong whilst offering precise fingertip control.

Reference	Channel diameter to clean with the large brush	Channel diameter to clean with the small brush
SULV08/50	5 to 7 mm	3 to 5 mm
SULV11/50	8 to 10 mm	3 to 5 mm



SUBS

The SUBS/50 brush is a disposable brush designed for cleaning the external surface of endoscopes, in particular the insertion tube, handle and connection cable. A tactile design coupled with soft fibers ensures the exterior surfaces of endoscopes can be properly cleaned without risking damage to the device.



KIT AND SETS

To simplify the work of the user, LTA MEDICAL created kits, including channel brushes for operating, aspiration channels and connections, it can include a brush for air, jet and water channels.

These kits include all channel brushes needed to clean an endoscope.

We offer sets which include an extra external brush to clean the control and the channel exterior.

KITS FOR BRONCHIAL, UROLOGY AND GYNECOLOGY FLEXIBLE SCOPES			
Without channel and/or aspiration connection			
Reference	Operating Channel	Aspiration Channel	Piston and Connections
R-1215/25	100 - 1215	x	SULV08
R-1824/25	100 - 1824	x	SULV08

KITS FOR BRONCHIAL, UROLOGY AND GYNECOLOGY FLEXIBLE SCOPES			
With channel and/or aspiration connection			
Reference	Operating Channel	Aspiration Channel	Piston and Connections
EB-1215/25	100 - 1215	30 - 2632	SULV08
EB-1824/25	100 - 1824	30 - 2632	SULV08
R-2632/25	100 - 2632		SULV08

KITS FOR DIGESTIVE FLEXIBLE SCOPES			
Without non cleanable channels air, water and water jet			
Reference	Operating Channel	Aspiration Channel	Piston and Connections
D11-1824/25	200 - 1824	200 - 3748	SULV11
D11-3748/25	200 - 3748		SULV11



FIS 005 AND FIS 005 SK

Boasting a 1.9mm diameter camera, the Flexible Inspection Scope is composed of a distal light source and camera lens at the end of a super flexible 110cm shaft.

These scopes are perfect for obtaining an incredibly intimate visualisation of any potentially soiled instrument or lumen of 2 mm or greater.

The camera and flexible shaft are attached to a comfortable, robust and ergonomically designed grip, from which the brightness of the light source, white balance and recording function of video and still image capture can be controlled.

Software is included, which installs on Windows PCs, and allows live viewing and recording from most computers and laptops.

Paired with the Flexible Arm, the Flexible Inspection Scope can be securely fastened whilst providing the operator with optimum manoeuvrability during any examination.

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