

TONTARRA

ENDOSCOPY



GYNECOLOGY

ABOUT US

For more than 50 years “made by TONTARRA, Germany” is a synonym for state-of-the-art surgical and endoscopic instruments and equipment.

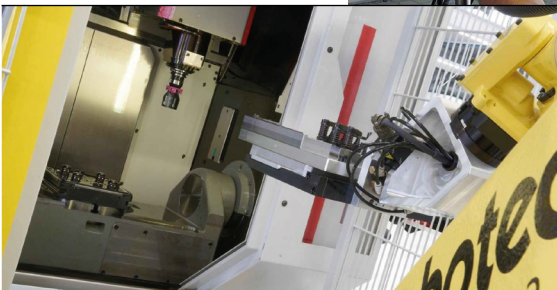
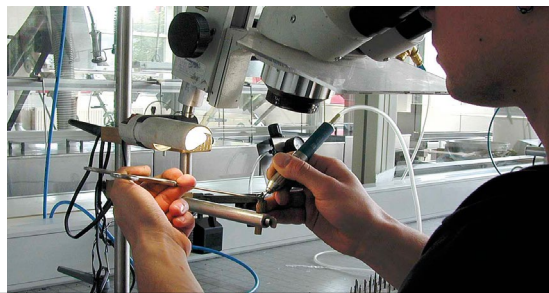
This success and the international recognition of the skillfulness in surgical and endoscopic instrument making of Tontarra Medizintechnik GmbH are based on our commitment to medical innovation, mastery in manufacturing, and a strong focus on our continuing tradition of excellence.

The confidence in our surgical and endoscopic lines as expressed by our international customers, distribution- and OEM-partners are a driving force to face and meet new challenges.

TONTARRA



Indispensable ‘tools’ for maturing new ideas into high-precision surgical instruments of highest precision include our state-of-the-art manufacturing facility and production processes, and especially the comprehensive technical know-how, ingenuity and strong commitment of our entire team.



ICONS – OVERVIEW



Function length



LuerLock



Quick Lock



For use with sheath in size



Round sheath



Oval sheath



Drop style sheath



Continuous flow

TABLE OF CONTENT


| | | | |
|---------------------------------|---------|--------------------------------------|---------|
| ▶ Quick Lock connecting system | 4 | ▶ Mini-Resectoscopy Ø 2.9 mm | 41 – 46 |
| | | 17.5/18.5 Fr. | |
| ▶ Telescopes HD / HD+ / HD+2 | 5 – 8 | ▶ Instruments for Gynecology | 47 – 54 |
| Light guide cables & Connectors | | Endoscopic Standard Instruments | |
| | | Laparoscopic Standard Instruments | |
| ▶ Hysteroscopy | 9 – 20 | ▶ HF Generator and | 55 – 58 |
| | | Connection cables | |
| ▶ Resectoscopy Ø 4.0 mm | 21 – 36 | ▶ Accessories | 59 – 61 |
| 24/26 Fr. & 27/28.5 Fr. | | General Gynecologic Accessories | |
| | | Maintenance, Storage & Sterilization | |
| ▶ Resectoscopy Ø 2.9 mm | 37 – 40 | ▶ Index | 62 – 63 |
| 19/22 Fr. | | | |

THE QUICK LOCK CONNECTING SYSTEM



The Quick-Lock connection system's main feature is the easy assembly and disassembly of the urological sheaths. The spring mechanism allows the optimal centering of the inner and outer sheaths. Above mentioned points are the main advantages of the Quick-Lock mechanism compared to the well-known Bayonet-type lock.

Each sheath is marked with an „arrow“ on the locking cone to indicate the correct assembly position.

The Quick Lock system is characterized by a smooth running take apart and a tight sealing as soon as the sheaths are connected to each other.





TELESCOPES

- ◀ HD
- ◀ HD+
- ◀ HD+2

Light guide Cables & Connectors

GYNECOLOGY TELESCOPES HD+, HD+2



- ▶ Ø 4.0 mm
- ▶ Compatible with most instrument- and camera systems

The „See & Treat“ approach has become a synonyme for office hysteroscopy. This already implies that the image quality is an essential criteria for each hysteroscopist: the clear visualization of a patients pathology is not only a prerequisite for secure diagnostics and the choice of intervention, but as well vital for a successful performance of therapeutic treatment.

TONTARRA Telescopes feature an excellent image quality for diagnostics and therapy, and support camera systems and instruments of nearly all well-known brands.



HYSTEROSCOPES [autoclavable]

▶ Ø 4.0 mm

| Description | | | Art. No. | |
|-------------------|-----------------|-----------|---------------|--|
| Hysteroscope HD+ | ▶ Ø 4.0 mm; 0° | FL 300 mm | 601-114-00HD | <ul style="list-style-type: none"> • Field of view: 91° • Ø 4.0 mm is the traditional size used in diagnostic hysteroscopy, and our hysteroscope has been specially designed to achieve an extraordinary wide field of view (91°) • Available in 4 different angles of view • Not to be used in combination with resectoscopy sheaths |
| Hysteroscope HD+2 | ▶ Ø 4.0 mm; 0° | FL 300 mm | 601-114-00HD2 | |
| Hysteroscope HD+ | ▶ Ø 4.0 mm; 12° | FL 300 mm | 601-114-12HD | |
| Hysteroscope HD+2 | ▶ Ø 4.0 mm; 12° | FL 300 mm | 601-114-12HD2 | |
| Hysteroscope HD+ | ▶ Ø 4.0 mm; 30° | FL 300 mm | 601-114-30HD | |
| Hysteroscope HD+2 | ▶ Ø 4.0 mm; 30° | FL 300 mm | 601-114-30HD2 | |
| Hysteroscope HD+ | ▶ Ø 4.0 mm; 70° | FL 300 mm | 601-114-70HD | |
| Hysteroscope HD+2 | ▶ Ø 4.0 mm; 70° | FL 300 mm | 601-114-70HD2 | |

TELESCOPES FOR RESECTOSCOPY IN GYNECOLOGY [autoclavable]

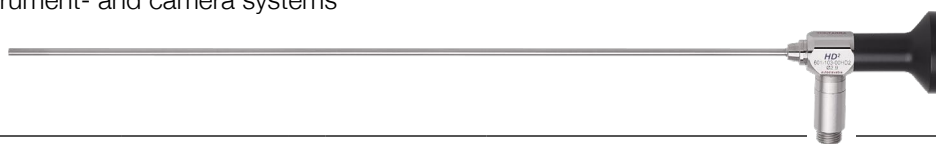
▶ Ø 4.0 mm

| Description | | | Art. No. | |
|----------------|-----------------|-----------|---------------|--|
| Telescope HD+ | ▶ Ø 4.0 mm; 0° | FL 300 mm | 601-104-00HD | <ul style="list-style-type: none"> • Field of view: 70° • For use in gynecologic resectoscopy • Available in four different angles of view |
| Telescope HD+2 | ▶ Ø 4.0 mm; 0° | FL 300 mm | 601-104-00HD2 | |
| Telescope HD+ | ▶ Ø 4.0 mm; 12° | FL 300 mm | 601-104-12HD | |
| Telescope HD+2 | ▶ Ø 4.0 mm; 12° | FL 300 mm | 601-104-12HD2 | |
| Telescope HD+ | ▶ Ø 4.0 mm; 30° | FL 300 mm | 601-104-30HD | |
| Telescope HD+2 | ▶ Ø 4.0 mm; 30° | FL 300 mm | 601-104-30HD2 | |
| Telescope HD+ | ▶ Ø 4.0 mm; 70° | FL 300 mm | 601-104-70HD | |
| Telescope HD+2 | ▶ Ø 4.0 mm; 70° | FL 300 mm | 601-104-70HD2 | |

GYNECOLOGY TELESCOPES HD



- ▶ Ø 2.9 mm / Ø 2.0 mm
- ▶ Compatible with most instrument- and camera systems



TELESCOPES FOR GYNECOLOGY [autoclavable]

▶ Ø 2.9 mm [also for use in Laparoscopy and Urology]

| Description | Art. No. | · Field of view: 80° · Compatible with most instrument- and camera systems |
|---|---------------|---|
| Telescopes HD+2 ▶ Ø 2.9 mm; 0° FL 300 mm | 601-103-00HD2 | |
| Telescopes HD+2 ▶ Ø 2.9 mm; 12° FL 300 mm | 601-103-12HD2 | |
| Telescopes HD+2 ▶ Ø 2.9 mm; 30° FL 300 mm | 601-103-30HD2 | |



TELESCOPES FOR GYNECOLOGY [autoclavable]

▶ Ø 2.0 mm [also for use in Urology]

▶ Fibre telescopes

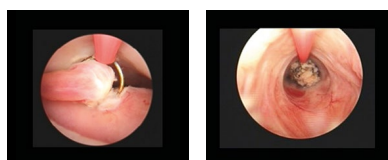
| Description | Art. No. | For diagnostic miniature hysteroscopes or mini operative systems, f.e. TONTARRA's hysteroscopy continuous flow operating sheaths for Ø 2.0 mm telescopes. |
|---|------------|---|
| Telescopes HD ▶ Ø 2.0 mm; 0° FL 187 mm | 601-102-00 | |
| Telescopes HD ▶ Ø 2.0 mm; 30° FL 187 mm | 601-102-30 | |
| Telescopes HD ▶ Ø 2.0 mm; 0° FL 260 mm | 601-112-00 | |
| Telescopes HD ▶ Ø 2.0 mm; 30° FL 260 mm | 601-112-30 | |
| Telescopes HD ▶ Ø 2.0 mm; 0° FL 300 mm | 601-132-00 | |
| Telescopes HD ▶ Ø 2.0 mm; 30° FL 300 mm | 601-132-30 | |



“GENTLE OFFICE HYSTERO-RESECTOSCOPY” on the rise:

Contemporary Gynecology has generally shifted towards gentler treatment methods, and communication on eye-level between doctor and patient has gained importance.

TONTARRA's systems for Hystero-Resectoscopy are well in line with the demand for smaller instruments; our 16 Fr. Mini-Hystero-Resectoscope „GUBBINI“ even allows the effective resectoscopic therapy without dilatation of the cervix. This approach is not only less traumatic for the patient, but also helps to save costs as more interventions can be performed in an office-setting.



© Dr. Giampietro Gubbini

The “GUBBINI System” is also apt for resectoscopic therapy without the need for dilatation of the cervix, and can be applied to nearly all endo-uterine pathologies.

Ask for our “GUBBINI”-catalogue!



Polypectomy performed with TONTARRA's Mini-Hystero-Resectoscope “GUBBINI”, standardly equipped with a HD+2 telescope Ø 2.9 mm.



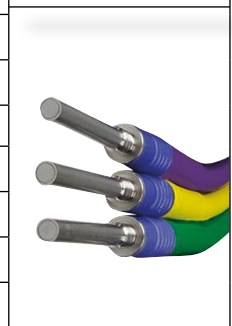
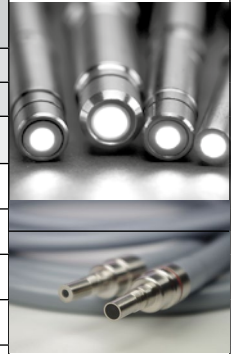
ACCESSORIES

► Light Guide Cables & Connectors

FIBER LIGHT GUIDE CABLES

► Stability & resistance for a long life time

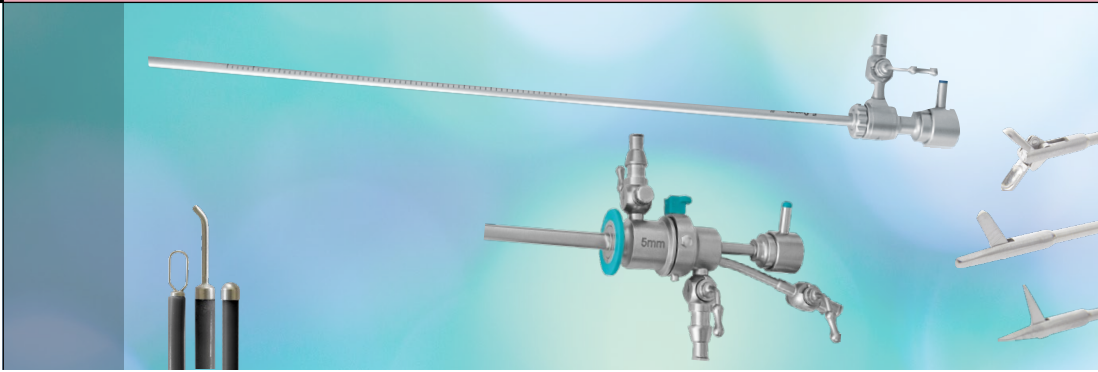
| Description | Standard Cold Light Line | HTT High Temperature Technology Line | HP High Performance Line |
|---|---|---|--------------------------|
| Cold light sources | HALOGEN <i>careful w/Xenon light!</i> | for all cold light sources (excellent light transmission) optimized for XENON | optimized for LED |
| Sizes | Art. No.'s | | |
| Ø 4.9 x 1800 mm Length | | 540-815-18 | |
| Ø 4.9 x 2300 mm Length | | 540-815-23 | |
| Ø 4.9 x 3000 mm Length | | 540-815-30 | |
| Ø 4.9 x 5000 mm Length | | 540-815-50 | |
| Ø 3.5 x 1800 mm Length | 540-803-18 | 540-813-18 | 540-823-18 |
| Ø 3.5 x 2300 mm Length | 540-803-23 | 540-813-23 | 540-823-23 |
| Ø 3.5 x 3000 mm Length | 540-803-30 | 540-813-30 | 540-823-30 |
| Ø 3.5 x 5000 mm Length | 540-803-50 | | 540-823-50 |
| Ø 2.5 x 1800 mm Length | | 540-812-18 | 540-822-18 |
| Ø 2.5 x 2300 mm Length | | 540-812-23 | 540-822-23 |
| Ø 2.5 x 3000 mm Length | | 540-812-30 | 540-822-30 |
| Ø 2.5 x 5000 mm Length | | 540-812-50 | 540-822-50 |
| Tube colours The Standard colour is grey. | Only available in grey | ● LL (Lilac) ● YW (Yellow) ● GN (Green) Colour Coding made easy: If you want to order one of the shown colours Lilac, Yellow or Green, please indicate the corresponding extensions shown in the column to the right (f.e. for a green cable add „GN“, the article number then reads 540-XXX-XXGN) | |
| Colour of introduction piece | Black | Blue | White |



For further information please ask for our Light Guide Cable brochure. Connectors for cables which are without any connector can be found below.

LIGHT CABLE CONNECTORS

| Projector-Side (light input) | | | Telescope-Side (light output) | | |
|------------------------------|------------|--|---------------------------------------|------------|--|
| Storz/Aesculap | 540-890-02 | | TONTARRA/Storz/Aesculap/Olympus (old) | 540-880-02 | |
| Olympus/ACMI | 540-890-10 | | | | |
| Olympus new (switch) | 540-890-14 | | Olympus new | 540-880-04 | |
| Wolf | 540-890-04 | | Wolf/Dyonics snap | 540-880-13 | |
| | | | Wolf/Dyonics clip | 540-880-05 | |
| ACMI/British/Codman | 540-890-01 | | ACMI/British/Codman | 540-880-01 | |



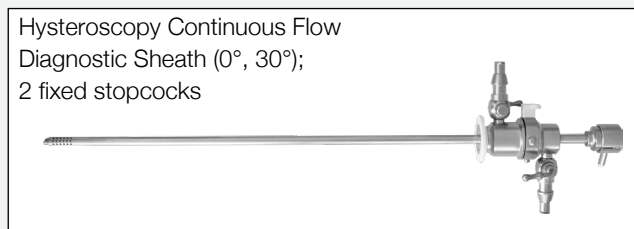
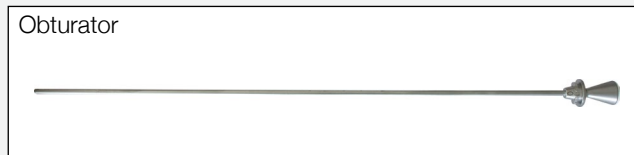
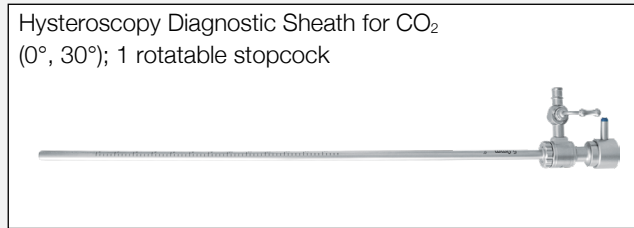
HYSTEROSCOPY



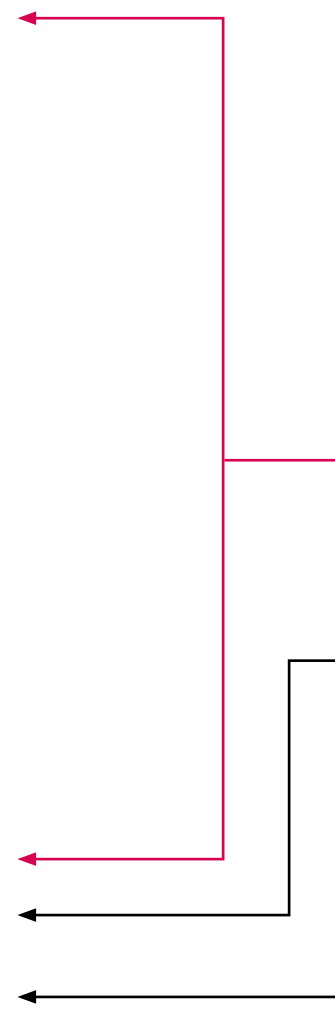
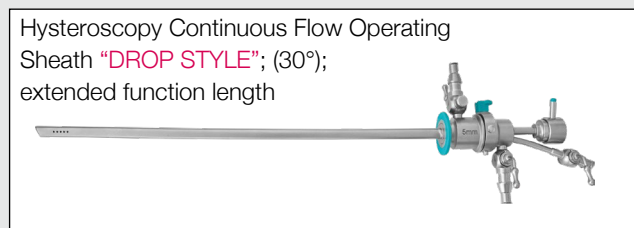
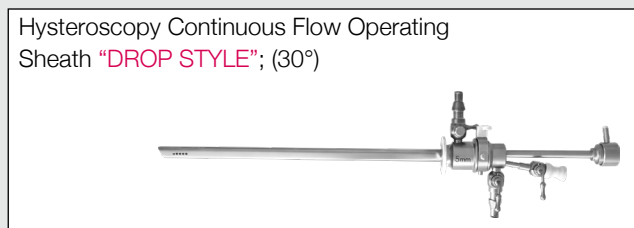
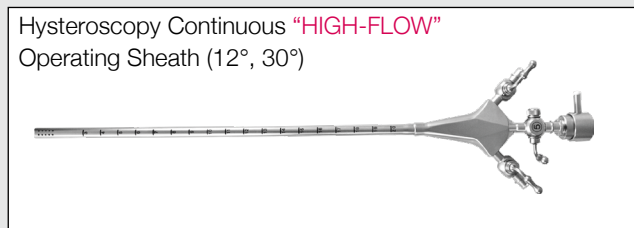
HYSTEROSCOPY & OPERATING SHEATHS

► Schematic overview

DIAGNOSTIC SHEATHS



DIAGNOSTIC & OPERATING SHEATHS

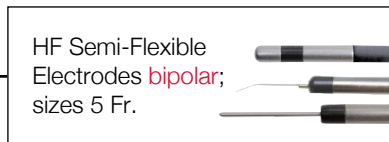
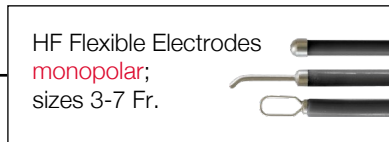
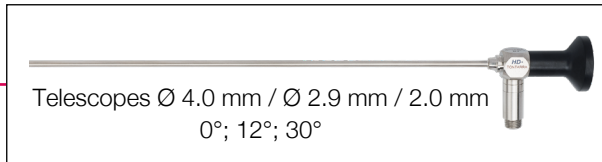




Systems and components for Ø 4.0 mm telescopes

Ø 2.9 mm telescopes

Ø 2.0 mm telescopes



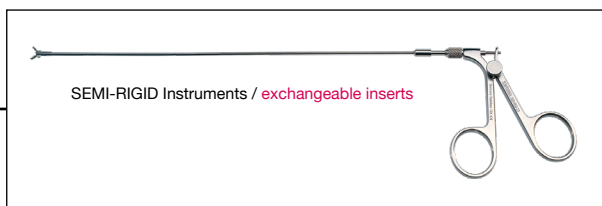
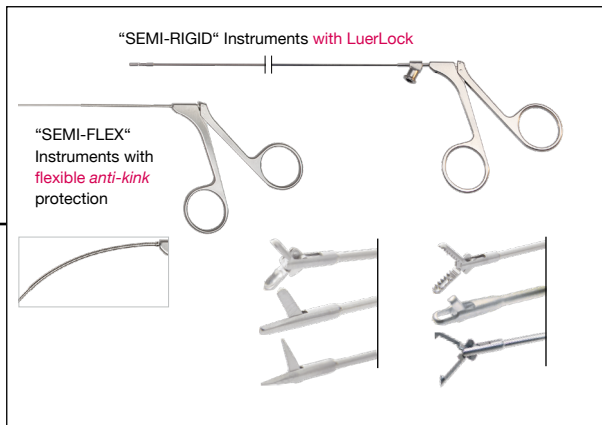
HF Connection cables (2 types):

monopolar

to connect flexible **monopolar** HF electrodes to HF generator

bipolar

to connect semi-flexible **bipolar** HF electrodes to HF generator



HYSTEROSCOPY CO₂ DIAGNOSTIC SHEATHS

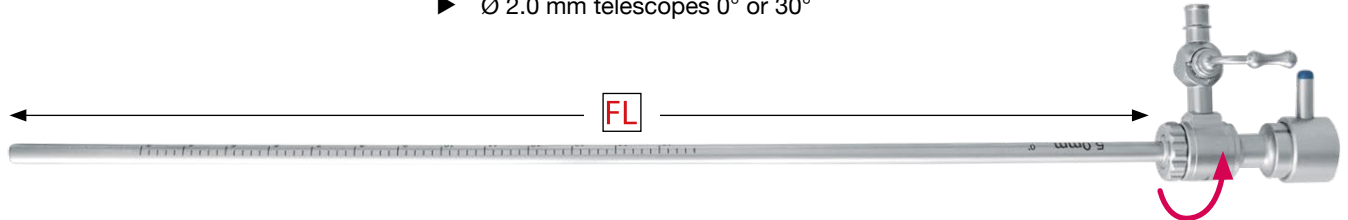


Hysteroscopy CO₂ Diagnostic Sheath

- ▶ with 1 rotating stopcock











Available for:

- ▶ Ø 4.0 mm telescopes 0° or 30°
- ▶ Ø 2.9 mm telescopes 0° or 30°
- ▶ Ø 2.0 mm telescopes 0° or 30°



HYSTEROSCOPY CO₂ DIAGNOSTIC SHEATH



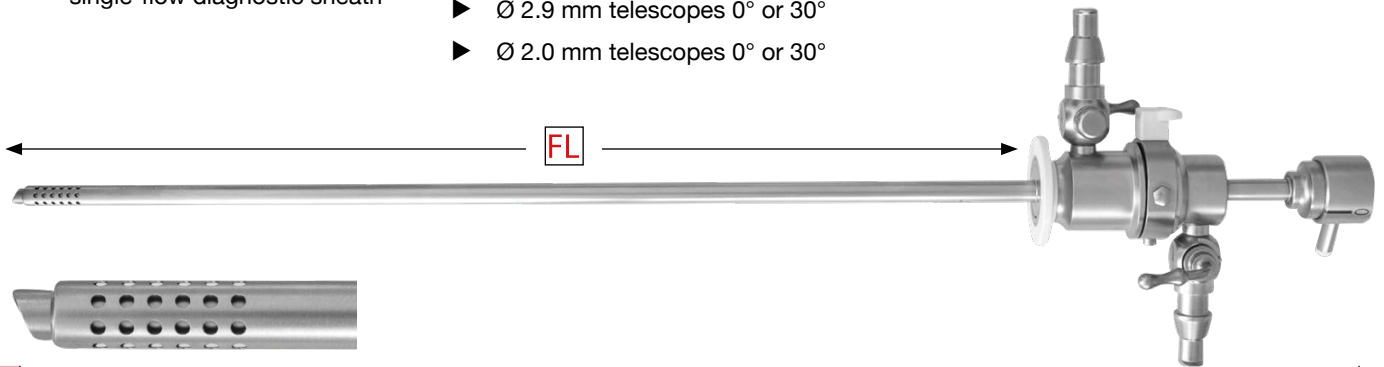
| | | | |
|---|---------|------------|---|
| for Ø 4 mm telescopes ▶ Ø 5.0 mm FL 270 mm | | | |
| DIAGNOSTIC SHEATH 0° | ■ blue | 640-010-40 |  601-114-00HD, 601-114-00HD2 |
| DIAGNOSTIC SHEATH 30° | ■ blue | 640-010-43 |  601-114-30HD, 601-114-30HD2 |
| OBTURATOR | ■ blue | 640-010-45 |  Ø 5.0 mm |
| for Ø 2.9 mm telescopes ▶ Ø 4.0 mm FL 270 mm | | | |
| DIAGNOSTIC SHEATH 0° | □ white | 640-010-30 |  601-103-00HD2 |
| DIAGNOSTIC SHEATH 30° | □ white | 640-010-33 |  601-103-30HD2 |
| OBTURATOR | □ white | 640-010-35 |  Ø 4.0 mm |
| for Ø 2.0 mm telescopes ▶ Ø 2.9 mm FL 228 mm | | | |
| DIAGNOSTIC SHEATH 0° | ■ red | 640-010-20 |  601-112-00 |
| DIAGNOSTIC SHEATH 30° | ■ red | 640-010-23 |  601-112-30 |
| OBTURATOR | ■ red | 640-010-25 |  Ø 2.9 mm |
| for Ø 2.0 mm telescopes ▶ Ø 2.9 mm FL 270 mm | | | |
| DIAGNOSTIC SHEATH 0° | ■ red | 640-010-27 |  601-132-00 |

HYSTEROSCOPY CONTINUOUS FLOW DIAGNOSTIC SHEATHS












Hysteroscopy Continuous Flow Diagnostic Sheath

- ▶ with 2 fixed stopcocks
 - ▶ Inner sheath can be used as single-flow diagnostic sheath
- Available for:
- ▶ Ø 4.0 mm telescopes 0° or 30°
 - ▶ Ø 2.9 mm telescopes 0° or 30°
 - ▶ Ø 2.0 mm telescopes 0° or 30°



HYSTEROSCOPY CONTINUOUS FLOW DIAGNOSTIC SHEATH



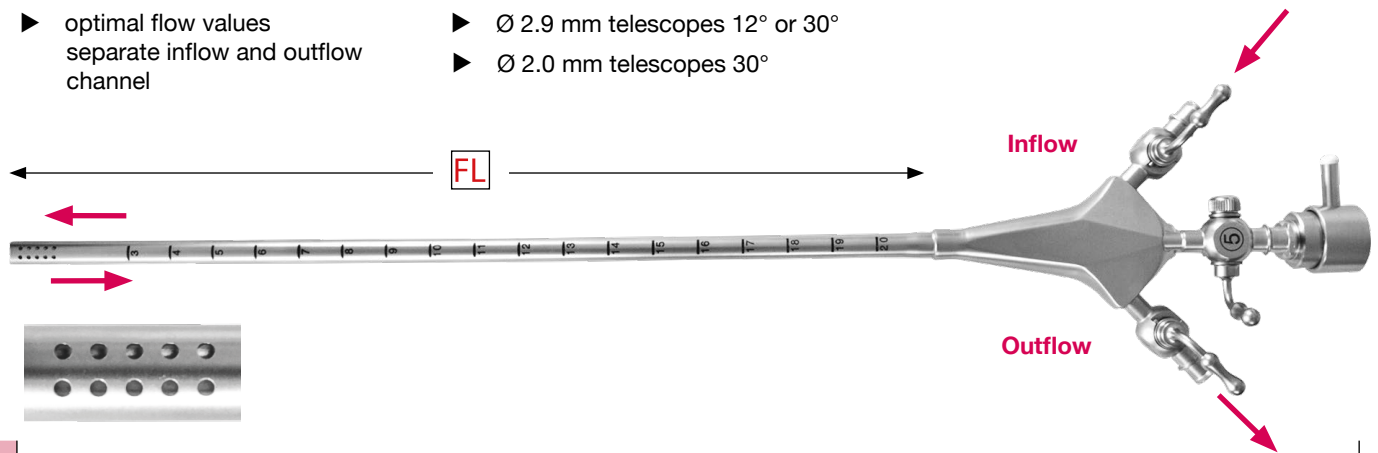
| for Ø 4.0 mm telescopes | FL | Color code | Art. No. | Information |
|--|--------|------------|------------|---|
| OUTER DIAGNOSTIC SHEATH; Ø 6.5 mm | 240 mm | ■ blue | 640-015-41 | |
| DIAGNOSTIC INNER SHEATH 0°; Ø 5.4 mm | 260 mm | ■ blue | 640-015-42 |  601-114-00HD, 601-114-00HD2 |
| DIAGNOSTIC INNER SHEATH 30°; Ø 5.4 mm | 260 mm | ■ blue | 640-015-44 |  601-114-30HD, 601-114-30HD2 |
| OBTURATOR | | ■ blue | 640-015-45 |  Ø 6.5 mm |
| for Ø 2.9 mm telescopes | | | | |
| OUTER DIAGNOSTIC SHEATH; Ø 5.0 mm | 244 mm | □ white | 640-015-31 | |
| DIAGNOSTIC INNER SHEATH 0°; Ø 4.0 mm | 260 mm | □ white | 640-015-32 |  601-103-00HD2 |
| DIAGNOSTIC INNER SHEATH 30°; Ø 4.0 mm | 260 mm | □ white | 640-015-34 |  601-103-30HD2 |
| OBTURATOR | | □ white | 640-010-35 |  Ø 5.0 mm |
| for Ø 2.0 mm telescopes | | | | |
| OUTER DIAGNOSTIC SHEATH; Ø 3.7 mm | 200 mm | ■ red | 640-015-21 | |
| DIAGNOSTIC INNER SHEATH 0°; Ø 2.9 mm | 218 mm | ■ red | 640-015-22 |  601-112-00 |
| DIAGNOSTIC INNER SHEATH 30°; Ø 2.9 mm | 218 mm | ■ red | 640-015-24 |  601-112-30 |
| OBTURATOR | | ■ red | 640-015-25 |  Ø 3.7 mm |

HYSTEROSCOPY CONTINUOUS FLOW OPERATING SHEATHS



Hysteroscopy Compact 'HIGH FLOW' Continuous Flow Operating Sheath

- ▶ with working channel 5 Fr.
 - ▶ optimal flow values
separate inflow and outflow channel
- Available for:
- ▶ Ø 2.9 mm telescopes 12° or 30°
 - ▶ Ø 2.0 mm telescopes 30°



HYSTEROSCOPY COMPACT 'HIGH FLOW' CONTINUOUS FLOW OPERATING SHEATH



for Ø 2.9 mm telescopes



Ø 5.5 mm; working channel 5 Fr.

FL 212 mm

Information

Description

Color code

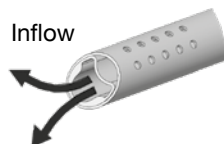
Art. No.

COMPACT OPERATING SHEATH 12° & 30°

□ white

640-022-33

601-103-12HD2
 601-103-30HD2



for Ø 2.0 mm telescopes



Ø 4.3 mm; working channel 5 Fr.

FL 173 mm

Information

COMPACT OPERATING SHEATH 30°

■ red

640-022-43

601-112-30

for Ø 2.0 mm telescopes



Ø 4.3 mm; working channel 5 Fr.

FL 215 mm

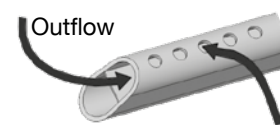
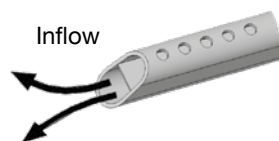
Information

COMPACT OPERATING SHEATH 30°

■ red

640-022-53

601-132-30

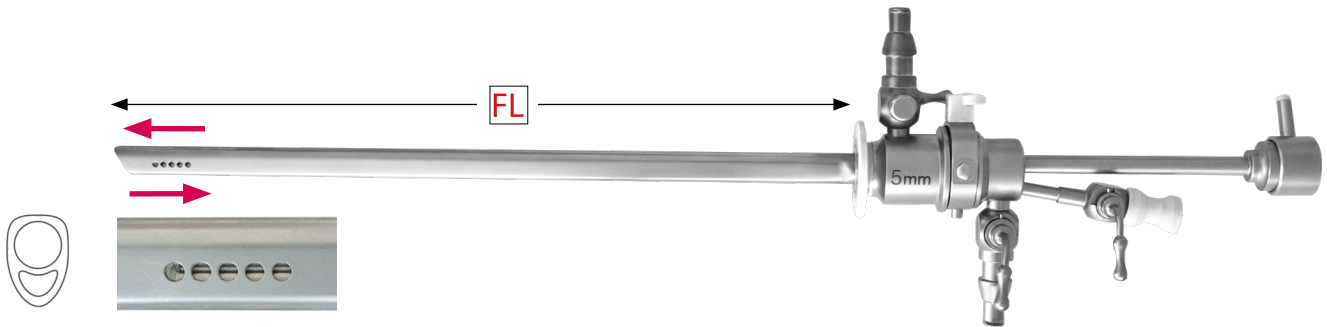


HYSTEROSCOPY CONTINUOUS FLOW OPERATING SHEATHS



Hysteroscopy Continuous Flow Operating Sheath 'DROP STYLE'

- ▶ with 2 fixed stopcocks
 - ▶ with Quick Lock connections
 - ▶ „Drop Style“ for better insertion
- Available for:
- ▶ Ø 4.0 mm telescopes 30° with working channel 5 Fr. & 7 Fr.
 - ▶ Ø 2.9 mm telescopes 30° with working channel 5 Fr.
 - ▶ Ø 2.0 mm telescopes 30° with working channel 5 Fr.



HYSTEROSCOPY CONTINUOUS FLOW OPERATING SHEATHS 'DROP STYLE'



for Ø 4.0 mm telescopes

Ø 6.5 mm; working channel 5 Fr.

FL 192 mm

Description

Color code

Art. No.

Information

OUTER OPERATING SHEATH 30°

■ blue

640-025-41



INNER OPERATING SHEATH 30°

■ blue

640-025-42

601-114-30HD
601-114-30HD2

Ø 7.0 mm; working channel 7 Fr.

FL 192 mm

OUTER OPERATING SHEATH 30°

■ green

640-025-51

INNER OPERATING SHEATH 30°

■ green

640-025-52

for Ø 2.9 mm telescopes

Ø 5.0 mm; working channel 5 Fr.

FL 192 mm

Information

OUTER OPERATING SHEATH 30°

□ white

640-025-31



INNER OPERATING SHEATH 30°

□ white

640-025-32

601-103-30HD2

for Ø 2.0 mm telescopes

Ø 4.3 mm; working channel 5 Fr.

FL 181 mm

Information

OUTER OPERATING SHEATH 30°

■ red

640-025-21



INNER OPERATING SHEATH 30°

■ red

640-025-22

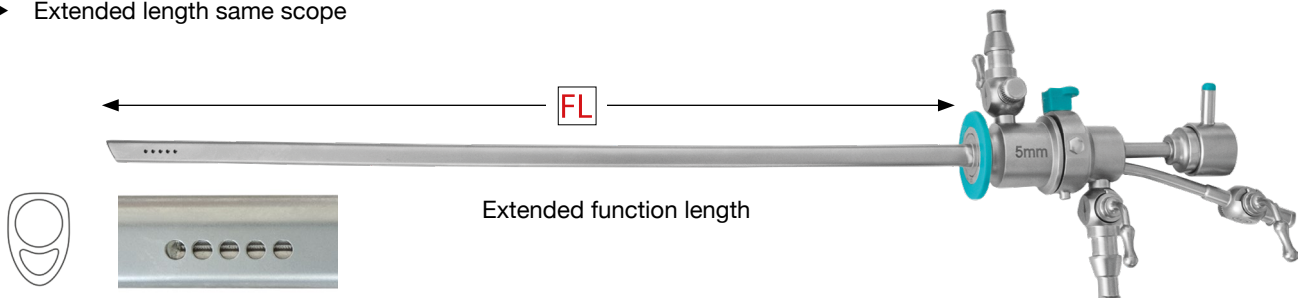
601-112-30

HYSTEROSCOPY CONTINUOUS FLOW OPERATING SHEATHS



Hysteroscopy Continuous Flow Operating Sheath 'DROP STYLE' with extended function length

- ▶ with 2 fixed stopcocks
 - ▶ with Quick Lock connections
 - ▶ „Drop Style“ for better insertion
 - ▶ Extended length same scope
- Available for:
- ▶ Ø 4.0 mm telescopes 30° with working channel 5 Fr.
 - ▶ Ø 2.9 mm telescopes 30° with working channel 5 Fr. & 7 Fr.



HYSTEROSCOPY CONTINUOUS FLOW OPERATING SHEATHS 'DROP STYLE'



for Ø 4.0 mm telescopes

Ø 6.5 mm; working channel 5 Fr.

FL 216 mm

Description

Color code

Art. No.

Information

OUTER OPERATING SHEATH 30°

■ blue

640-026-41



INNER OPERATING SHEATH 30°

■ blue

640-026-42

601-114-30HD
601-114-30HD2

for Ø 2.9 mm telescopes

Ø 5.0 mm; working channel 5 Fr.

FL 216 mm

Information

OUTER OPERATING SHEATH 30°

■ turquoise

640-026-31



601-103-30HD2

INNER OPERATING SHEATH 30°

■ turquoise

640-026-32

Ø 5.5 mm; working channel 7 Fr.

FL 216 mm

OUTER OPERATING SHEATH 30°

■ grey

640-026-51

INNER OPERATING SHEATH 30°

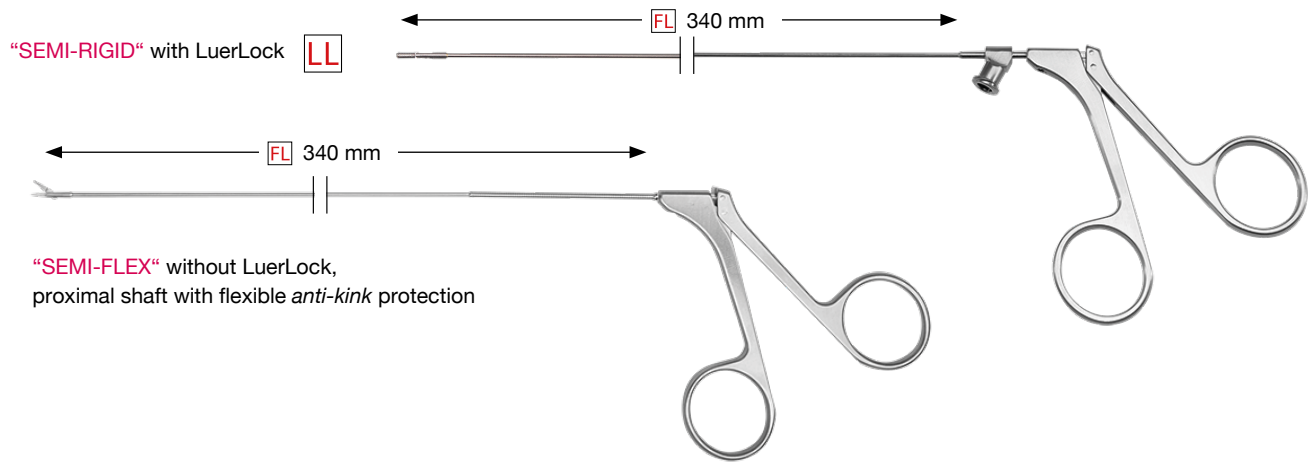
■ grey

640-026-52



MICRO INSTRUMENTS FOR HYSTEROSCOPY

- ▶ Semi-rigid & "semi-flex" instruments for instrument channel 5 Fr.
- ▶ Available with LuerLock, or proximal shaft with flexible *anti-kink* protection and *without* LuerLock



SEMI-RIGID INSTRUMENTS Ø 1.6 mm; with LUER LOCK or ANTI-KINK protection

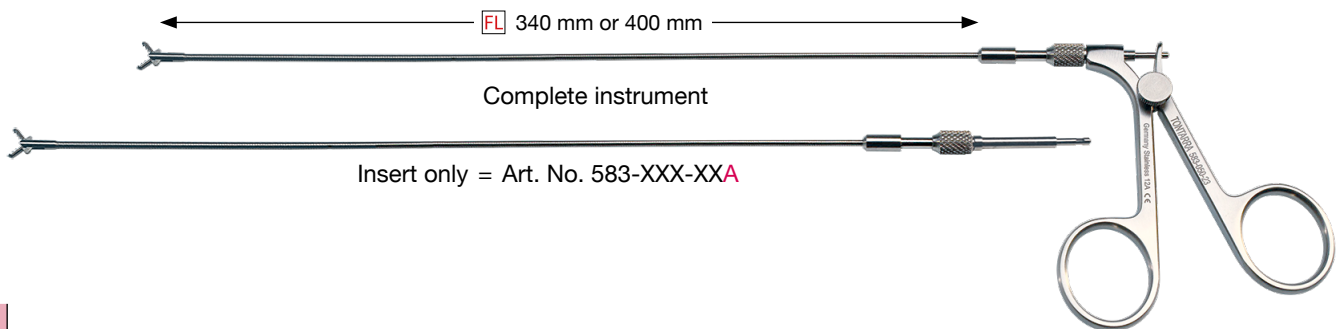
FL 340 mm

| Description | Standard | Semi-Rigid (LuerLock) | Semi-Flex (Anti-Kink protection) | |
|--|-------------|-----------------------|----------------------------------|--|
| BIOPSY FORCEPS ▶ oval ▶ double action | 583-214-16 | 583-214-16LL | - | |
| SCISSORS ▶ blunt ▶ single action | 583-228-16 | 583-228-16LL | 583-228-16FS | |
| SCISSORS ▶ pointed ▶ single action | 583-229-16 | 583-229-16LL | 583-229-16FS | |
| BIOPSY AND GRASPING FORCEPS ▶ oval ▶ double action | 583-256-16 | 583-256-16LL | 583-256-16FS | |
| PUNCH ▶ through-cutting ▶ single action | 583-258-16 | 583-258-16LL | - | |
| TENACULUM FORCEPS ▶ oval ▶ double action | 583-278-16 | 583-278-16LL | - | |
| BIOPSY FORCEPS ▶ oval, Ø 1.2 mm ▶ double action, with pin | 583-250-16G | - | - | |
| BIOPSY FORCEPS ▶ oval, Ø 1.2 mm, FL 400 mm ▶ double action, with pin | 583-250-40G | - | - | |
| MYOMA FIXATION instrument | 583-280-00 | 583-280-00 | - | |

MICRO INSTRUMENTS FOR HYSTEROSCOPY







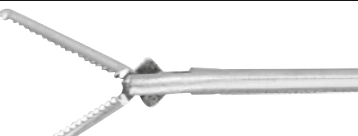


► Semi-rigid instruments for instrument channels 5 Fr. or 7 Fr.



SEMI-RIGID INSTRUMENTS Ø 1.6 mm; with EXCHANGEABLE INSERTS

FL 400 mm FL 340 mm

| Description | Length (FL) | 5 Fr. | 7 Fr. | Information |
|--|-------------|--|-------------|--|
| BIOPSY FORCEPS | 400 mm | 583-012-16 | 583-012-23 |  double action |
| | | 583-012-16A | 583-012-23A | |
| | 340 mm | 583-212-16 | 583-212-23 | |
| | | 583-212-16A | 583-212-23A | |
| SCISSORS | 400 mm | 583-022-16 | 583-022-23 |  single action |
| | | 583-022-16A | 583-022-23A | |
| | 340 mm | 583-222-16 | 583-222-23 | |
| | | 583-222-16A | 583-222-23A | |
| HOOK SCISSORS | 400 mm | - | 583-032-23 |  single action |
| | | - | 583-032-23A | |
| | 340 mm | - | 583-232-23 | |
| | | - | 583-232-23A | |
| BIOPSY FORCEPS ► oval ► serrated | 400 mm | 583-052-16 | 583-052-23 |  double action |
| | | 583-052-16A | 583-052-23A | |
| | 340 mm | 583-252-16 | 583-252-23 | |
| | | 583-252-16A | 583-252-23A | |
| BIOPSY FORCEPS ► oval ► serrated | 400 mm | - | - |  double action |
| | | - | - | |
| | 340 mm | - | - | |
| | | 583-256-16A | - | |
| GRASPING FORCEPS ► alligator jaw | 400 mm | 583-062-16 | 583-062-23 |  double action |
| | | 583-062-16A | 583-062-23A | |
| | 340 mm | 583-262-16 | 583-262-23 | |
| | | 583-262-16A | 583-262-23A | |
| GRASPING FORCEPS ► serrated | 400 mm | 583-072-16 | - |  double action |
| | | 583-072-16A | - | |
| | 340 mm | 583-272-16 | - | |
| | | 583-272-16A | - | |
| HANDLE only (spare part) | 583-305-00 | for all micro instruments 5/7 Fr. with Art. No's 583-XXX-XX except "semi-rigid instruments with LUERLOCK or ANTIKINK PROTECTION" | | |

Article numbers ending with **A** = Insert only.






HF ELECTRODES FOR HYSTEROSCOPY


- ▶ Flexible electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine); 3-7 Fr.
- ▶ Semi-flexible electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %); 5 Fr.



FLEXIBLE ELECTRODES; **MONOPOLAR** FL 470 mm

| |  |  |  |
|--------------|---|--|---|
| Size | BUTTON ELECTRODE | NEEDLE ELECTRODE, angled | LOOP ELECTRODE |
| 3 Fr. | 582-510-03 | - | - |
| 5 Fr. | 582-510-05 | 582-511-05 | 582-514-05 |
| 7 Fr. | 582-510-07 | 582-511-07 | 582-514-07 |

HF CONNECTION CABLES; **MONOPOLAR** for working elements and flexible electrodes


| | | | |
|--|--------------|--|---|
| Available for following units: Erbe/ICC/ACC/Storz Ø 5.0 mm Valleylab, Conmed Ø 8.0 mm TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm | 3.0 m | Instrument side Round plug  | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| | 582-531-02 | | |
| | 582-532-03 | | |
| | 582-533-04 | | |



SEMI-FLEXIBLE ELECTRODES; **BIPOLAR** FL 360 mm Size 5 Fr.

| |  |  |  |  |
|--|---|---|--|---|
| | BUTTON ELECTRODE | NEEDLE ELECTRODE angled 45° | NEEDLE ELECTRODE angled 90° | NEEDLE ELECTRODE straight |
| | 582-515-05 | 582-516-05 | 582-518-05 | 582-517-05 |

HF CONNECTION CABLES; **BIPOLAR** for semi-flexible electrodes with flat-cable plug

| | | | | |
|--|--------------|--------------|---|---|
| Available for following units: Erbe; Storz/unit side round plug Berchthold/Martin/unit side round plug US-Models; 2-pins/unit side banana plugs TONTARRA mod. PWT-400; Valleylab; International Models; 2 pins | 3.0 m | 5.0 m | Instrument side Flat plug  | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| | 287-200-30 | 287-200-50 | | |
| | 287-205-30 | 287-205-50 | | |
| | 287-210-30 | 287-210-50 | | |
| | 287-215-30 | 287-215-50 | | |

HYSTERO-BLOCK

- Pain reduction made easy, safe and reliable.



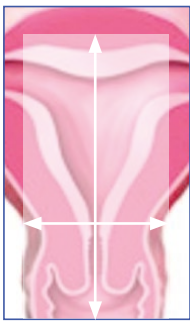
PARACERVICAL LOCAL BLOCKADE IN HYSTEROSCOPY (hysteroscopes up to approx. Ø 5.0 mm) & MINI-RESECTOSCOPY

“Applying injection of local anesthetics before hysteroscopic office procedures leads to significant pain reduction”.

The practical guideline in office hysteroscopy, by SEGI
(Società Italiana di Endoscopia Ginecologica)



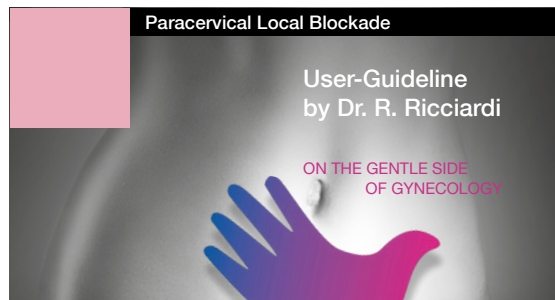
With more than 60,000 diagnostic and operative hysteroscopic procedures Dr. Raffaele Ricciardi is one of the top experts in the field. He also published and co-authored several studies and articles. Dr. Ricciardi annually performs 1.300 surgeries, of these over 700 with paracervical local blockades.



Criteria to apply local anesthesia on the patient's side are anatomic circumstances (for example patients who never gave birth may experience more pain), or the anticipated anxiety and stress level during an intervention; **applying local anesthesia is reassuring for patient and gynecologist alike.**

Another criteria is of course the intervention itself; its duration is a determining factor for pain sensation. In any case: Anesthesia assistance should be within reach in case of an emergency.

Anesthetized area



Please contact us for further information and Dr. Ricciardi's User Guideline.

Dr. Raffaele RICCIARDI

born in Andria, Italy, in 1953, graduated *cum laude* in Medicine at the University of Pavia in 1977, and received his Certification as a specialist in Obstetrics and Gynecology in 1982.

In 1983 he started his brilliant career as a gynecologist at the renowned IRCCS (Institute for Research and Health Care) polyclinic “Casa Sollievo della Sofferenza”, San Giovanni Rotondo. Since 1985 he dedicated himself intensively to diagnostic and operative hysteroscopy, participating as instructor, lecturer and speaker in several courses, conferences and congresses around the world.

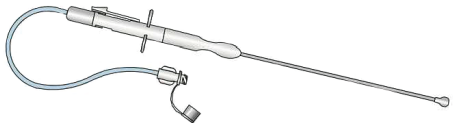
In 1998 he became a member of the Executive Council at the Diagnostic and Operative Hysteroscopy School “Arbor Vitae”, directed by Prof. Ivano Mazzon (based in Rome).

Since 2007 he is the Director of the Hysteroscopy Department, Abano Terme Polyclinic.

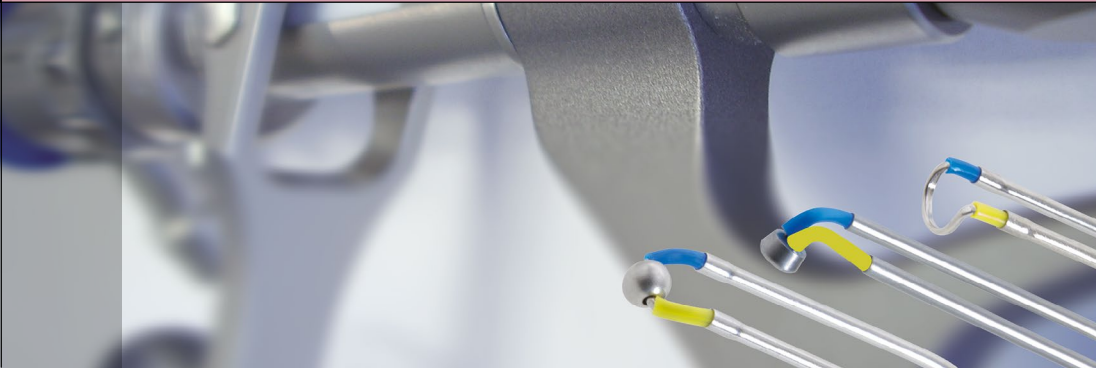
Reference center for Mini-Resectoscopy

HYSTERO-BLOCK

FL 270 mm

| Description | Art. No. | |
|---------------------------------|----------------------------------|---|
| HYSTERO-BLOCK NEEDLE ► Ø 20G | BELO/2-PB02N (Box of 10 pcs.) |  |

Produced by BEL Bio Engineering Laboratories S.R.L, Italy - distributed by TONTARRA

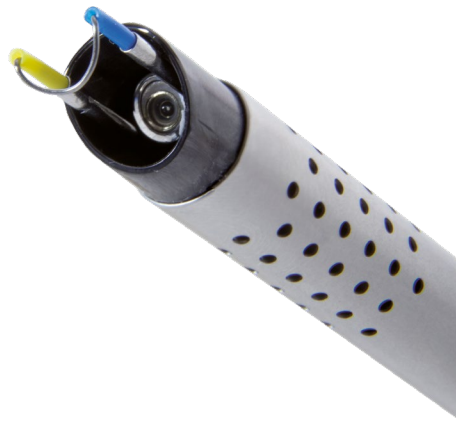


RESECTOSCOPY

Ø 4.0 mm

◀ 24/26 Fr.

◀ 27/28.5 Fr.





RESECTOSCOPY

► Schematic overview

HYBRID RESECTOSCOPY

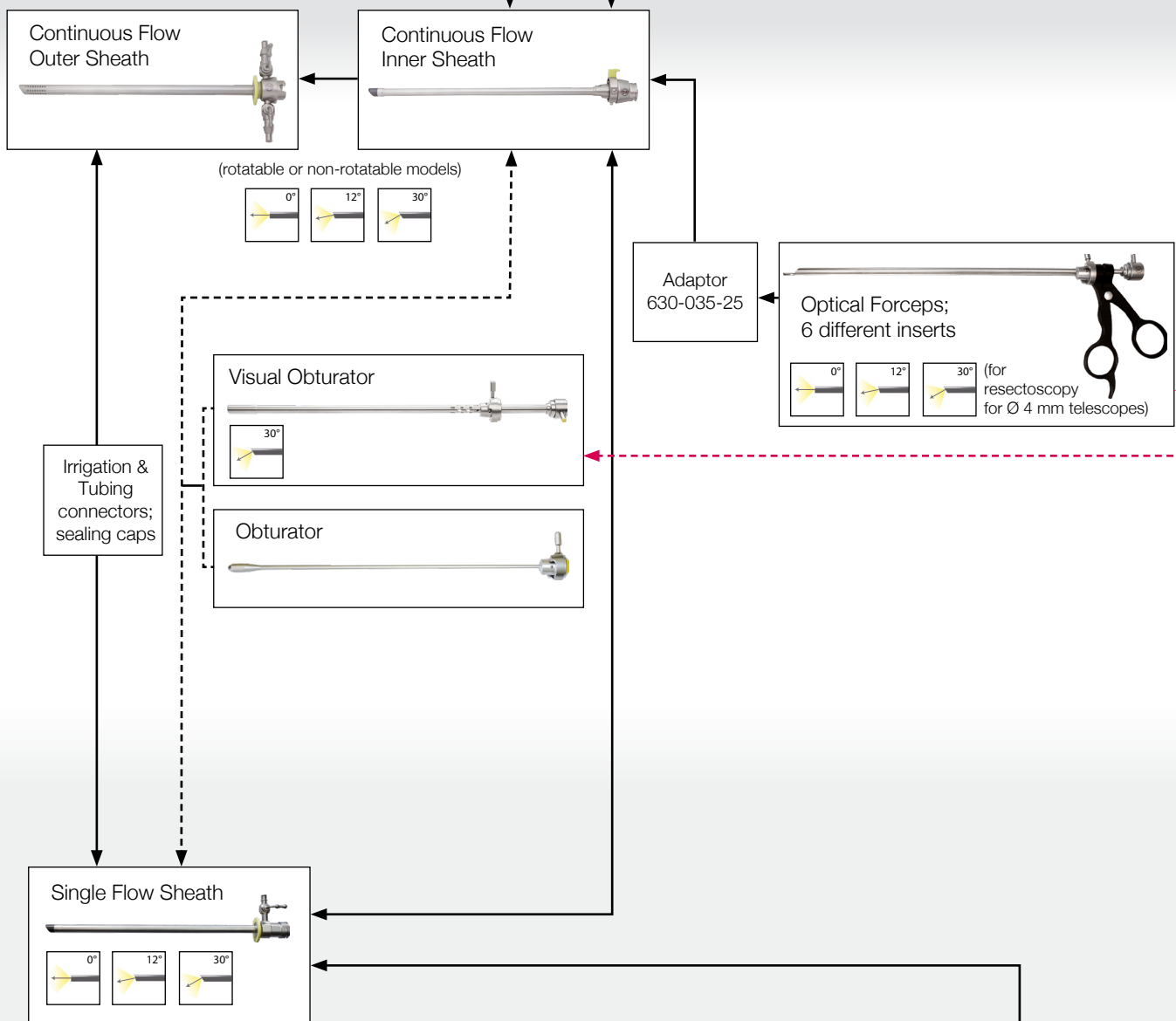
> BOTH SYSTEMS <

RESECTOSCOPY **monopolar**



HYBRID RESECTOSCOPY

- for **monopolar** use or
- for **bipolar** use in saline solution NaCl 0.9 %




RESECTOSCOPY for **monopolar** use only

- 24/26 Fr.
- 27/28.5 Fr.
- 19/22 Fr.

Systems and components for Ø 4.0 mm telescopes

Systems and components for Ø 2.9 mm telescopes

MINI-HYSTERO-RESECTOSCOPE
for Ø 2.9 mm telescopes
for use with **bipolar** current
in saline solution NaCl 0.9 %



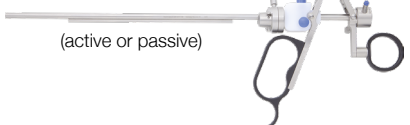
17.5/18.5 Fr.

Electrodes **bipolar**
(Reusable or SALINAE Single use)




(examples)


Hybrid Working Element
(active or passive)



Telescopes Ø 4.0 / Ø 2.9 mm
0°; 12°; 30°; 70°

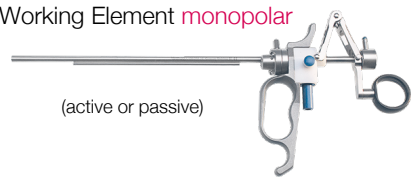


Electrodes **monopolar**



(examples)

Working Element monopolar
(active or passive)




HF Connection cables (2 types):

monopolar
to connect working element to HF generator

bipolar
to connect working element to HF generator

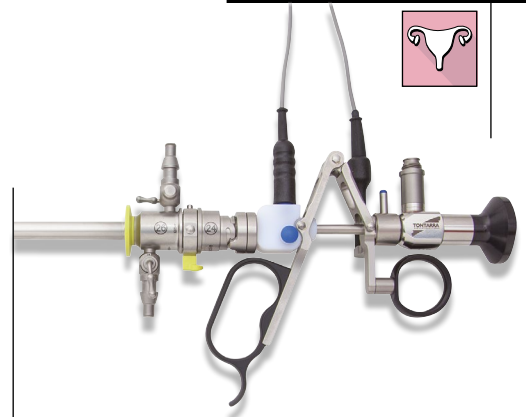
HF Generator



RESECTOSCOPY



TONTARRA features an extensive modular resectoscopy system build around supreme quality resectoscopic sheaths in different sizes, several types of working elements, plus a wide range of electrodes for use with monopolar current, or bipolar current in saline solution (0.9 % NaCl).



TONTARRA Hybrid Resectoscopy Systems respond to actual trends in contemporary gynecological resectoscopy.

TONTARRA'S PORTFOLIO INCLUDES

FOR Ø 4.0 mm TELESCOPES:

► RESECTOSCOPY LINE 24/26 Fr.

- Continuous flow sheaths for mono- & bipolar use
- Single flow sheaths for monopolar use
- Hybrid Working elements for mono- or bipolar current, or working elements only for monopolar use; working elements for Gyrus electrodes

► RESECTOSCOPY LINE 27/28.5 Fr.

- Continuous flow sheaths for monopolar use
- Single flow sheaths for monopolar use

► COMPATIBLE MICRO TOOLS

- Optical forceps for Ø 4.0 mm telescopes
- Preparation Loops for myomectomy

FOR Ø 2.9 mm TELESCOPES:

► RESECTOSCOPY LINE 19/22 Fr.

- Continuous flow sheaths for mono- & bipolar use
- Single flow sheaths for monopolar use

► MINI-HYSTERO-RESECTOSCOPE 17.5/18.5 Fr.

- for bipolar use
- with extra working sheath for hysteroscopy

The tendency clearly goes towards the use of bipolar current with saline solution (0.9 % NaCl) as distension medium thanks to several advantages:

- less risk of hyponatremia and hypervolemia
- less distension volume/less strain on the tissue
- lower work temperature on tissue during surgery which results in less necrosis around the treated areas

- Reusable Mono- & Bipolar electrodes and bipolar **single use** electrodes (Salinæ)

19/22 Fr. 24/26 Fr. 27/28 Fr.

Monopolar electrodes



(examples)

Bipolar electrodes

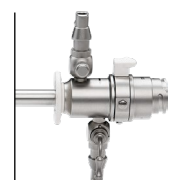
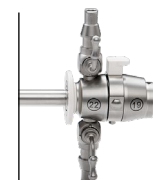


Preparation loops



(examples)

19/22 Fr: TONTARRA's „White Line“



A further miniaturization of instruments in Gynecology is reflected by TONTARRA's 19/22 Fr. resectoscopy system for Ø 2.9 mm telescopes with loops optimally designed for more patient-friendly, lower impact interventions which result in a faster healing process for the patient and cost reduction for health care systems.

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

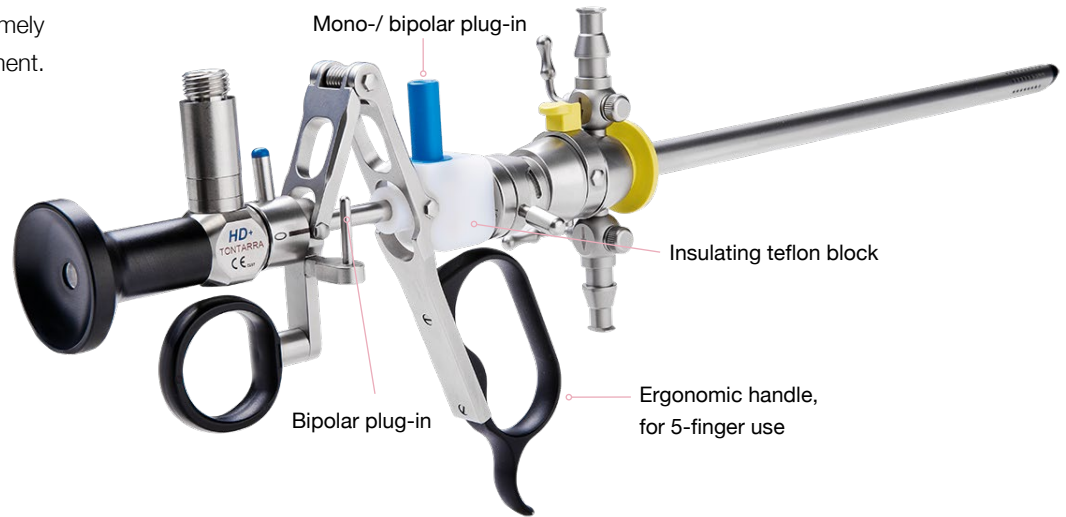
- ▶ HYBRID HF working elements 24/26 Fr.



■ 24/26 Fr.




Hybrid Resectoscopes facilitate the gradual integration of new procedures into clinics, and provide the freedom of choice to either proceed working with monopolar distension mediums, or to gradually change procedures to the use of bipolar current in saline solution.

A light-weight and extremely ergonomic working element.



HYBRID HF WORKING ELEMENTS; closed handle

- ▶ For use with electrodes in **monopolar** current mode and non-conductive solution (e.G. Sorbitol, Mannitol, Glycine)
- ▶ For use with electrodes in **bipolar** current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)

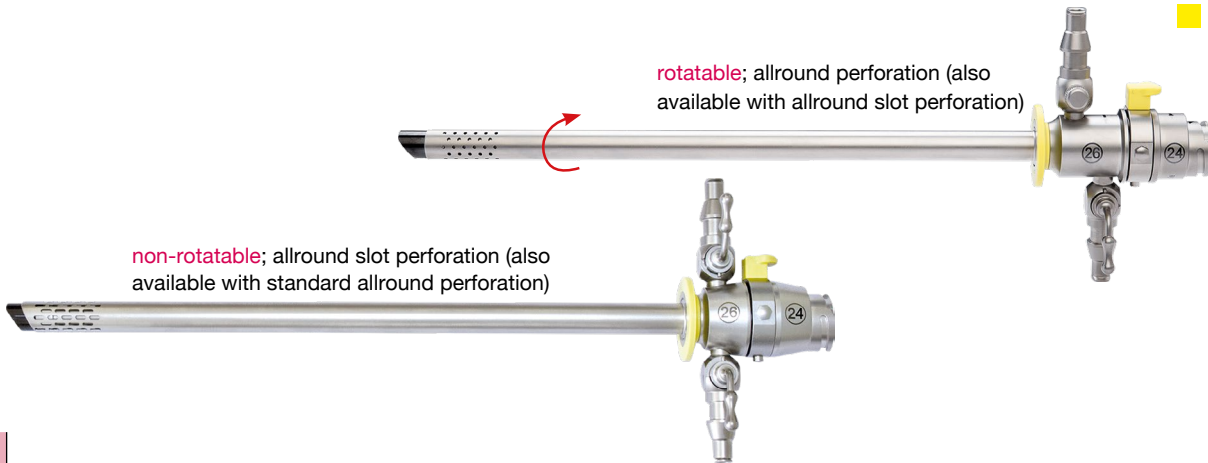
| Description | Art. No. | HF-Connection |
|--|---------------|---------------|
| WORKING ELEMENT; active  | 630-235-10B | upwards |
| WORKING ELEMENT; passive  | 630-235-60B | upwards |
| SAFETY DISTANCE HOLDER for bipolar working element 630-235-10B; 635-235-60B (1.1 mm width); 1 pc.  | 582-150-02GUB | - |

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES



► HYBRID continuous flow sheaths for **mono-** & **bipolar** use

■ 24/26 Fr.



CONTINUOUS FLOW SHEATHS; 2 stopcocks; without obturator

► ■ yellow



| Description | Allround perforation | Slot perforation |
|--|--------------------------------|--------------------------------|
| The continuous flow sheaths are available with allround- or slot perforation (see pictures to the right) | | |
| non-rotatable | | |
| OUTER SHEATH ► 26 Fr. ► 2 stopcocks | | 630-204-06 630-204-07 |
| INNER SHEATH ► 24/26 Fr. | | 630-204-26 |
| rotatable | | |
| OUTER SHEATH ► 26 Fr. ► 2 stopcocks | | 630-209-06 630-209-07 |
| INNER SHEATH ► 24/26 Fr. | | 630-209-26 |
| 601-104-00HD; 601-104-00HD2 | 601-104-12HD; 601-104-12HD2 | 601-104-30HD; 601-104-30HD2 |

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES



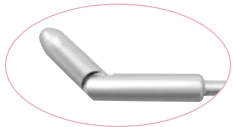




► Obturators & adaptor



■ 24/26 Fr.

OBTURATORS; ADAPTOR

➡ 24/26 Fr.

| Description | ■ yellow | Information |
|---|------------|--|
| STANDARD OBTURATOR  | 630-215-24 | |
| DEFLECTING TIP OBTURATOR  | 630-220-24 |  |
| VISUAL OBTURATOR  | 630-225-24 |  30° 601-104-30HD 601-104-30HD2 |
| VISUAL OBTURATOR with 1 instrument channel 5 Fr.  | 630-230-24 | |
| ADAPTOR for using optical instruments with resectoscopy sheaths  | 630-035-25 | |

For Hybrid Resectoscopy Systems and monopolar single flow sheaths

MICRO TOOLS COMPATIBLE WITH THE 24/26 FR. & 27/28.5 FR. RESECTOSCOPY SYSTEM

► Optical forceps
(for further information see page 35)



ADAPTOR for using optical instruments with resectoscopy sheaths

➡ 24/26 Fr. & 27/28.5 Fr.

(Art. No. 630-035-25)

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES



- ▶ Reusable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %)
- ▶ SALINÆ disposable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %)

■ 24/26 Fr.

BIPOLAR ELECTRODES; reusable or single use

➡ 24/26 Fr.

| Description | Color code | Reusable | SALINÆ Single use electrodes* | |
|--|---------------|---------------|-------------------------------|--|
| LOOP ELECTRODE; angled; 30° | ■ yellow/blue | 630-240-00B | 630-240-00B-S | |
| PI CUT LOOP ELECTRODE; high temperature resistance and longer use | ■ yellow/blue | 630-240-00BPI | - | |
| LOOP ELECTRODE | ■ yellow/blue | 630-240-05B | - | |
| LOOP ELECTRODE; straight | ■ yellow/blue | 630-240-10B | 630-240-10B-S | |
| BALL ELECTRODE; Ø 3 mm | ■ yellow/blue | 630-240-15B | 630-240-15B-S | |
| BALL ELECTRODE; Ø 5 mm | ■ yellow/blue | 630-240-20B | - | |
| ROLLER ELECTRODE; Ø 3 mm | ■ yellow/blue | 630-240-25B | - | |
| ROLLER ELECTRODE; Ø 5 mm | ■ yellow/blue | 630-240-30B | - | |
| CONICAL ELECTRODE | ■ yellow/blue | 630-240-35B | - | |
| KNIFE ELECTRODE | ■ yellow/blue | 630-240-40B | 630-240-40B-S | |

* Sterile, single packaged; 5 pcs./box

For cable connection see cable overview on the next page or in chapter "HF Generator & Connection cables".

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES


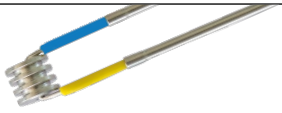

- ▶ Reusable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %)



■ 24/26 Fr.

BIPOLAR ELECTRODES; reusable

⇒ 24/26 Fr.

| Description | Color code | Reusable | SALINÆ Single use electrodes | |
|---|---------------|-------------|------------------------------|---|
| VAPORIZATION ELECTRODE; Ø 3 mm; toothed | ■ yellow/blue | 630-240-45B | – |  |
| VAPORIZATION ELECTRODE; Ø 5 mm; smooth | ■ yellow/blue | 630-240-60B | – |  |
| VAPORIZATION ELECTRODE; cone shaped | ■ yellow/blue | 630-240-75B | – |  |

HF CONNECTION CABLES; **BIPOLAR** to connect working elements to HF generator; **BIPOLAR** mode for resectoscopy

| Available for following units: | Length | Art. No. | |
|--|--------|--------------|---|
| Erbe ICC/ACC, Storz | 3.0 m | 287-200-30BR | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| Berchthold/ Martin mod. Maxium | 3.0 m | 287-205-30BR | |
| TONTARRA mod. PWT-400; International Models; 2-pins | 3.0 m | 287-215-30BR | |
| Erbe mod. VIO 300D and VIO3; Karl Storz mod./ Autocon II 400 | 4.0 m | 287-220-30BR | |
| Emed-HF mod. Spectrum | 4.5 m | 287-225-30BR | |
| Bowa mod.; ARC 350 & 400; Karl Storz mod./ Autocon III 400 | 4.5 m | 287-230-30BR | |





RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- ▶ Working elements; **monopolar**
- ▶ Single flow sheaths





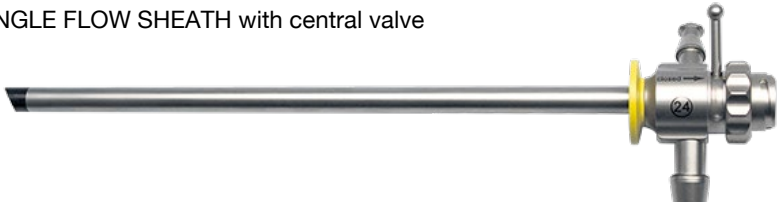
- 24/26 Fr.
- 27/28.5 Fr.

MONOPOLAR HF WORKING ELEMENTS; closed handles

| Description | Art. No. | HF-Connection | |
|-----------------------------|------------|---------------|--|
| WORKING ELEMENT; active | 630-235-10 | downwards |  |
| WORKING ELEMENT; passive | 630-235-60 | downwards |  |
| WORKING ELEMENT; active | 630-235-11 | upwards |  |
| WORKING ELEMENT; passive | 630-235-61 | upwards |  |

Can be used with the continuous Flow Sheaths

SINGLE FLOW SHEATHS; 24 Fr. (**monopolar use recommended**)

| Size | Color code | Art. No. | Information |
|--|------------|------------|---|
| SINGLE FLOW SHEATH with 1 stopcock  | ■ yellow | 630-200-24 |  |
| SINGLE FLOW SHEATH with central valve  | | 630-202-24 | |

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- ▶ Reusable electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine)



■ 24/26 Fr.

MONOPOLAR HF ELECTRODES

➡ 24/26 Fr.

| ➡ 24/26 Fr. | Color code | Art. No. | Electrode Spec. | |
|------------------------------------|------------|------------|-----------------|--|
| LOOP ELECTRODE; angled 30° | ■ yellow | 630-240-00 | 30° | |
| LOOP ELECTRODE; angled 12° | ■ blue | 630-240-05 | - | |
| LOOP ELECTRODE; straight | ■ yellow | 630-240-10 | - | |
| BALL ELECTRODE | ■ yellow | 630-240-15 | Ø 3.0 mm | |
| | ■ yellow | 630-240-20 | Ø 5.0 mm | |
| ROLLER ELECTRODE | ■ yellow | 630-240-25 | Ø 3.0 mm | |
| | ■ yellow | 630-240-30 | Ø 5.0 mm | |
| CONICAL ELECTRODE | ■ yellow | 630-240-35 | - | |
| KNIFE ELECTRODE; angled | ■ yellow | 630-240-40 | - | |
| VAPORIZATION ELECTRODE; toothed | ■ yellow | 630-240-45 | Ø 3.0 mm | |
| | ■ yellow | 630-240-50 | Ø 5.0 mm | |
| VAPORIZATION ELECTRODE; smooth | ■ yellow | 630-240-55 | Ø 3.0 mm | |
| | ■ yellow | 630-240-60 | Ø 5.0 mm | |
| BAND ELECTRODE; angled | ■ yellow | 630-240-65 | 30° | |
| | ■ yellow | 630-240-70 | 0°/12° | |

For cable overview see Chapter "HF Generator & Connection cables"

PREPARATION LOOPS

- ▶ » COLD LOOPS « for safe submucosal Myomectomy, or Synechiolysis
- ▶ For submucosal G1 and G2 Myomas



■ 24/26 Fr.



THE MECHANICAL ENUCLEATION TECHNIQUE / ADVANTAGES OF COLD LOOPS:

- ▶ Less traumatizing intervention: less weakening of the myometrium
- ▶ Avoiding of thermal damage to blood vessels: The vascularised connective tissue bridges are lacerated without the use of any type of HF current
- ▶ No forming of fibrotic scarring during the healing process

THE METHOD IN SHORT:

Following the elimination of the intracavitary component using the traditional resectoscopic "slicing" technique with a monopolar or bipolar current, the intramural component gets removed with the use cold loops by exercising force in the cleavage space between the myoma and the surrounding myometrium to separate the myoma from the uterine wall. Thus, the intramural component of the myoma is transformed into an intracavitary component, which can then be removed using the traditional technique.

PREPARATION LOOPS (COLD LOOPS)

⇒ 24/26 Fr.

| Description | Art. No. | | Information |
|--|------------|--|--|
| <ul style="list-style-type: none"> ▶ straight ▶ with rectangular shape | 630-250-00 | | »Cold Loops«, so-called because they are used without HF current, only employ mechanical energy for enucleation. ▶ For currentless use only ▶ CAUTION: The PREPARATION LOOPS may never be used when the current is on. Make absolutely sure that the resectoscopes is not connected to any HF-unit when you are using the PREPARATION LOOPS. |
| <ul style="list-style-type: none"> ▶ straight ▶ with round shape | 630-250-05 | | |
| <ul style="list-style-type: none"> ▶ 90°-right angled ▶ pointed | 630-250-10 | | |
| <ul style="list-style-type: none"> ▶ 45°-angled ▶ pointed | 630-250-15 | | |
| <ul style="list-style-type: none"> ▶ straight ▶ pointed | 630-250-20 | | |
| <ul style="list-style-type: none"> ▶ right angle ▶ double pointed | 630-250-25 | | |

- ▶ Recommended for use with TONTARRA Resectoscopes 24/26 Fr. (Art. No. 630-235-60 and 630-235-60B)
- ▶ Sterilizable and reusable; compatible with the following sterilization methods: AUTOCLAVE (Stream), STERIS (Peracetic and Peroxyacetic Acid), STERRAD (Gas Plasma), ETO (Ethylene Oxide)

OPTICAL INSTRUMENTS


▶ Optical instruments for Ø 4.0 mm telescopes

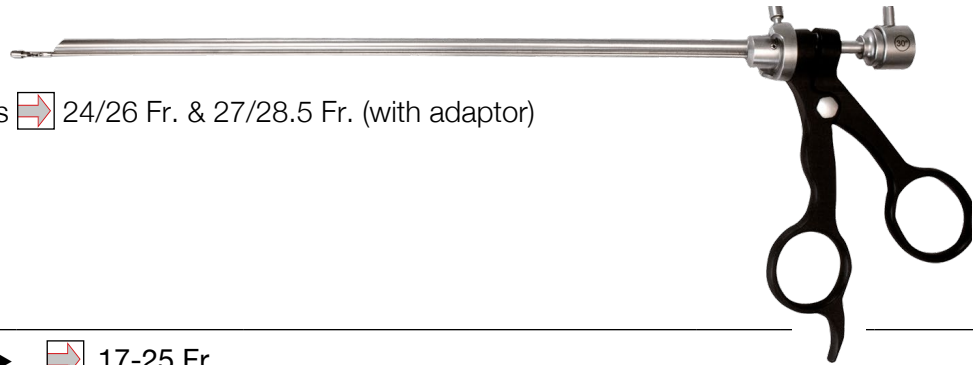


■ 24/26 Fr.
■ 27/28.5 Fr.













TONTARRA's optical instruments include scissors, forceps and punches for biopsy, foreign body extraction & removal of resectate. Extremely sharp cutting jaws, the stability of the entire instrument and an excellent flow rate enable the surgeon to safely perform mini-operations under vision right under the telescope objective.

FOR USE WITH:

Resectoscopy sheaths  24/26 Fr. & 27/28.5 Fr. (with adaptor)



OPTICAL FORCEPS ▶ 17-25 Fr.

| Description | Art. No. | | Information |
|--|------------|--|--|
| GRASPING FORCEPS ▶ optical 0°/12°/30° | 630-035-00 |  |  0° 601-104-00HD 601-104-00HD2 |
| BIOPSY SPOON FORCEPS ▶ optical 0°/12°/30° | 630-035-05 |  |  12° 601-104-12HD 601-104-12HD2  30° 601-104-30HD 601-104-30HD2 |
| BIOPSY PUNCH ▶ optical 0°/12°/30° | 630-035-10 |  | |
| HOOK SCISSORS ▶ optical 0°/12°/30° | 630-035-20 |  | |
| BIOPSY SPOON FORCEPS ▶ optical 30° | 630-035-13 |  |  30° 601-104-30HD 601-104-30HD2 |
| BIOPSY SPOON FORCEPS ▶ optical 70° | 630-035-15 |  |  70° 601-104-70HD 601-104-70HD2 |
| ADAPTOR for use of optical instruments with resectoscopy sheaths | 630-035-25 |  | |

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

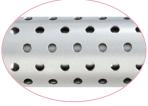
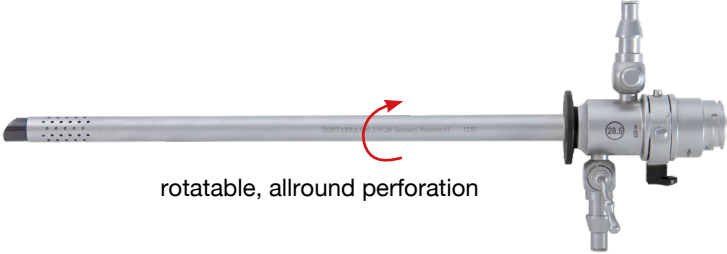
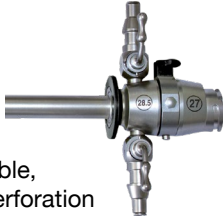
- ▶ HYBRID continuous flow sheaths for **mono-** & **bipolar** use
- ▶ Obturators & adaptor



■ 27/28.5 Fr.

CONTINUOUS FLOW SHEATHS; 2 stopcocks

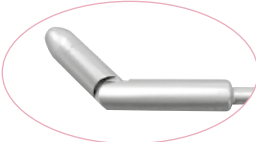



| Description | Allround perforation | |
|---|--|------------|
|   <p>rotatable, allround perforation</p> |  <p>non-rotatable, allround perforation</p> | |
| | Non-rotatable | Rotatable |
| OUTER SHEATH (28.5 Fr.) | 630-204-08 | 630-209-08 |
| INNER SHEATH (27 Fr.) | 630-204-28 | 630-209-28 |

All mono- and bipolar electrodes for the 24/26 Fr. resectoscopy system can also be used with the 27/28.5 Fr. system. For monopolar electrodes 27/28.5 Fr. see next page

OBTURATORS; ADAPTOR

⇒ 27/28.5 Fr.

| Description | Art. No. | Information |
|--|------------|--|
| STANDARD OBTURATOR | 630-215-27 | |
| DEFLECTING TIP OBTURATOR | 630-220-27 |  |
| VISUAL OBTURATOR | 630-225-27 |  30° 601-104-30HD 601-104-30HD2 |
| VISUAL OBTURATOR with 1 instrument channel 7 Fr. | 630-230-27 | |
| ADAPTOR for use of optical instruments with resectoscopy sheaths | 630-035-25 | |

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES





- ▶ Single flow sheaths for **monopolar** use
- ▶ Reusable electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine)

■ 27/28.5 Fr.





SINGLE FLOW SHEATHS (**monopolar use recommended**)




| Description | Art. No. |
|--|------------|
| SINGLE FLOW SHEATH with 1 stopcock; 27 Fr. | 630-200-27 |
|  | |
| SINGLE FLOW SHEATH with central valve; 27 Fr. | 630-202-27 |
|  | |

MONOPOLAR ELECTRODES

⇒ 27/28.5 Fr.

| ⇒ 27/28.5 Fr. | Color code | Art. No. | Electrode Spez. | |
|--|------------|------------|-----------------|---|
| LOOP ELECTRODE; angled | ■ brown | 630-240-01 | 30° |  |
| | ■ brown | 630-240-06 | 12° |  |
| LOOP ELECTRODE; straight | ■ brown | 630-240-11 | |  |
| KNIFE ELECTRODE; angled | ■ brown | 630-240-41 | |  |
| Monopolar electrodes for 24/26 Fr. resectoscopes can also be used with TONTARRA's 27/28.5 Fr. resectoscopes. | | | | |

HF CONNECTION CABLES; **MONOPOLAR** for working elements and flexible electrodes

| | | | |
|---|--|--|---|
| Available for following units: Erbe/ICC/ACC/Storz Ø 5.0 mm Valleylab, Conmed Ø 8.0 mm TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm | 3.0 m 582-531-02 582-532-03 582-533-04 | Instrument side Round plug  | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
|---|--|--|---|

RESECTOSCOPY SYSTEM FOR Ø 4.0 mm TELESCOPES

- ▶ Working elements for Ø 4.0 mm telescopes
- ▶ To use with **bipolar** Gyrus electrodes and Gyrus generator
(from company Olympus/Gyrus)



■ 27/28.5 Fr.

WORKING ELEMENT TO USE WITH GYRUS ELECTRODES; **BIPOLAR**

- ▶ Titanium; closed handle

| Compatibility | Active cutting | Passive cutting | Conus | |
|-----------------|----------------|-----------------|------------|--|
| GYRUS / Storz | 630-350-05 | 630-350-55 | 2 included | |
| extra conus | | | 630-350-90 | |
| GYRUS / Wolf | 630-351-05 | 630-351-55 | 1 included | |
| extra conus | | | 630-351-90 | |
| GYRUS / Olympus | 630-352-05 | 630-352-55 | 1 included | |
| extra conus | | | 630-352-90 | |



RESECTOSCOPY

Ø 2.9 mm

◀ 19/22 Fr.



RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES





- ▶ Working elements (**hybrid** or **monopolar**) for Ø 2.9 mm telescopes

HYBRID WORKING ELEMENTS; closed handles

- ▶ For use with electrodes in **monopolar** current mode and non-conductive solution (e.G. Sorbitol, Mannitol, Glycine)
- ▶ For use with electrodes in **bipolar** current mode and conductive solution (physiologic saline solution, NaCl 0.9 %)

| Description | Art. No. | HF-Connection | |
|--|-------------|---------------|---|
| HYBRID WORKING ELEMENT; active | 630-335-10B | upwards |  |
| HYBRID WORKING ELEMENT; passive | 630-335-60B | upwards |  |

WORKING ELEMENTS FOR **MONOPOLAR USE**; closed handles

| Description | Art. No. | HF-Connection | |
|---|------------|---------------|--|
| WORKING ELEMENT; active | 630-335-10 | downwards |  |
| WORKING ELEMENT; passive | 630-335-60 | downwards |  |

RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES

- ▶ Resectoscopy sheaths for **mono & bipolar** use
- ▶ Obturators



19/22 Fr.

HYBRID CONTINUOUS FLOW SHEATHS; 2 stopcocks

| Description | Allround perforation | |
|--|--|------------|
| <p>rotatable, allround perforation</p> | <p>non-rotatable, allround perforation</p> | |
| | Non-rotatable | Rotatable |
| OUTER SHEATH; 22 Fr. | 630-304-01 | 630-309-01 |
| INNER SHEATH; 19 Fr. | 630-304-21 | 630-309-21 |

SINGLE-FLOW SHEATH (monopolar use recommended)

| Description | Color code | Art. No. |
|---|--------------------------------|------------|
| RESECTOSCOPY SHEATH; 19 Fr. 1 stopcock | <input type="checkbox"/> white | 630-300-19 |

OBTURATORS

19/22 Fr.

| Size | Color code | Art. No. | Information |
|------------------------|--------------------------------|------------|----------------------|
| STANDARD OBTURATOR | <input type="checkbox"/> white | 630-315-19 | |
| VISUAL OBTURATOR | <input type="checkbox"/> white | 630-325-19 | <p>601-103-30HD2</p> |

RESECTOSCOPY SYSTEM FOR Ø 2.9 mm TELESCOPES



- ▶ Reusable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %)
- ▶ SALINÆ disposable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %) 19/22 Fr.
- ▶ Reusable electrodes for use with **monopolar** current and non-conductive solution (Sorbitol, Mannitol, Glycine)

MONOPOLAR ELECTRODES; reusable
BIPOLAR ELECTRODES; reusable & single use

19/22 Fr.

| Description | Monopolar | Bipolar | SALINÆ Single use electrodes* | |
|-------------------------------------|--------------------------------|-------------------------------------|-------------------------------------|--|
| | <input type="checkbox"/> white | <input type="checkbox"/> white/blue | <input type="checkbox"/> white/blue | |
| LOOP ELECTRODE; angled; 12° | 630-340-00 | 630-340-00B | 630-340-00B-S | |
| LOOP ELECTRODE; straight; 0°/12° | 630-340-05 | 630-340-05B | 630-340-05B-S | |
| BALL ELECTRODE; Ø 3 mm | 630-340-10 | 630-340-10B | 630-340-10B-S | |
| KNIFE ELECTRODE; angled | 630-340-15 | 630-340-15B | 630-340-15B-S | |
| ROLLER ELECTRODE; Ø 3 mm | 630-340-20 | - | - | |

*Sterile, single packaged; 5 pcs./box

Example for the bipolar electrode:



630-340-05B or 630-340-05B-S

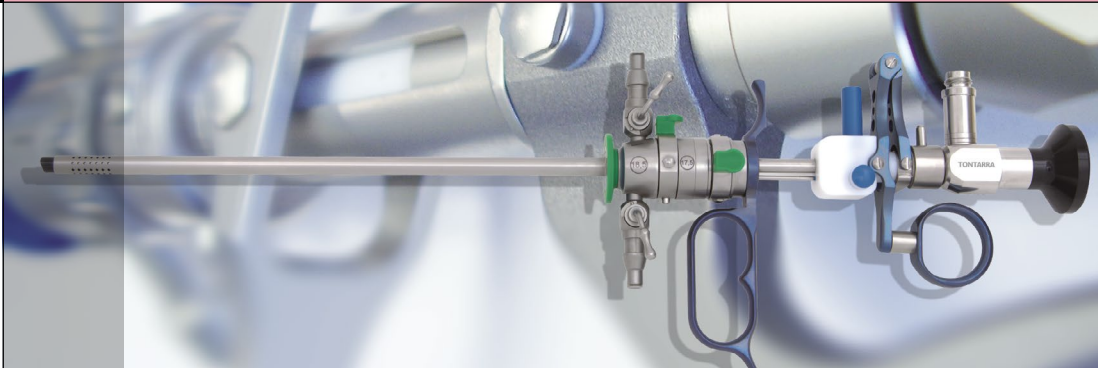
Reusable and Salinæ single use electrodes for **bipolar** applications come with white/blue insulation.

HF CONNECTION CABLES; **MONOPOLAR** for working elements and flexible electrodes

| Available for following units: | 3.0 m | Instrument side | |
|--|------------|-----------------|---|
| Erbe/ICC/ACC/Storz Ø 5.0 mm | 582-531-02 | Round plug | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| Valleylab, Conmed Ø 8.0 mm | 582-532-03 | | |
| TONTARRA mod. PWT-400; Equipment with banana plug Ø 4.0 mm | 582-533-04 | | |

HF CONNECTION CABLES; **BIPOLAR** to connect working elements to HF generator; **BIPOLAR** mode for resectoscopy

| Available for following units: | Length | Art. No. | |
|--|--------|--------------|---|
| Erbe ICC/ACC, Storz | 3.0 m | 287-200-30BR | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| Berchthold/ Martin mod. Maxium | 3.0 m | 287-205-30BR | |
| TONTARRA mod. PWT-400; International Models; 2-pins | 3.0 m | 287-215-30BR | |
| Erbe mod. VIO 300D and VIO3; Karl Storz/Autocon II 400 | 4.0 m | 287-220-30BR | |
| Emed-HF mod. Spectrum | 4.5 m | 287-225-30BR | |
| Bowa; ARC 350 & 400; Karl Storz mod./ Autocon III 400 | 4.5 m | 287-230-30BR | |



MINI- HYSTERO-RESECTOSCOPY

Ø 2.9 mm

◀ 17.5/18.5 Fr.

◀ 17 Fr.

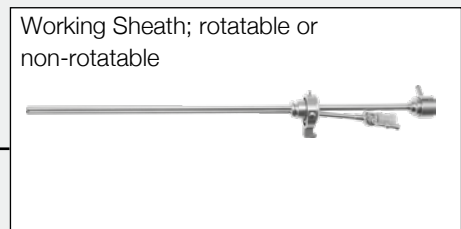
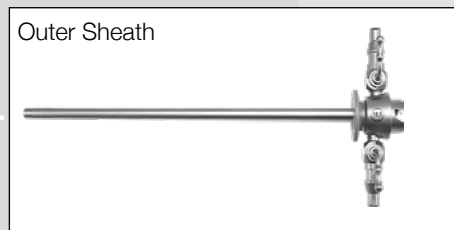
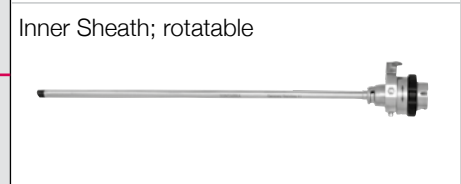
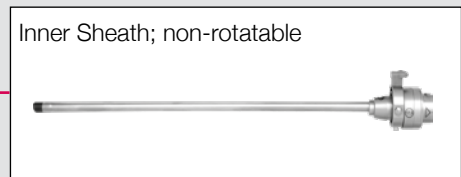
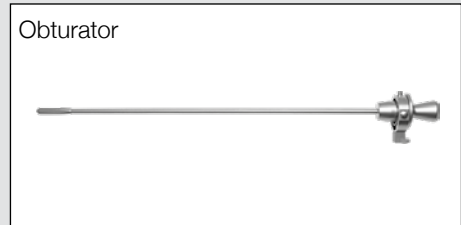




MINI-HYSTERO-RESECTOSCOPY SYSTEM

► Schematic overview

RESECTOSCOPY



HYSTEROSCOPY



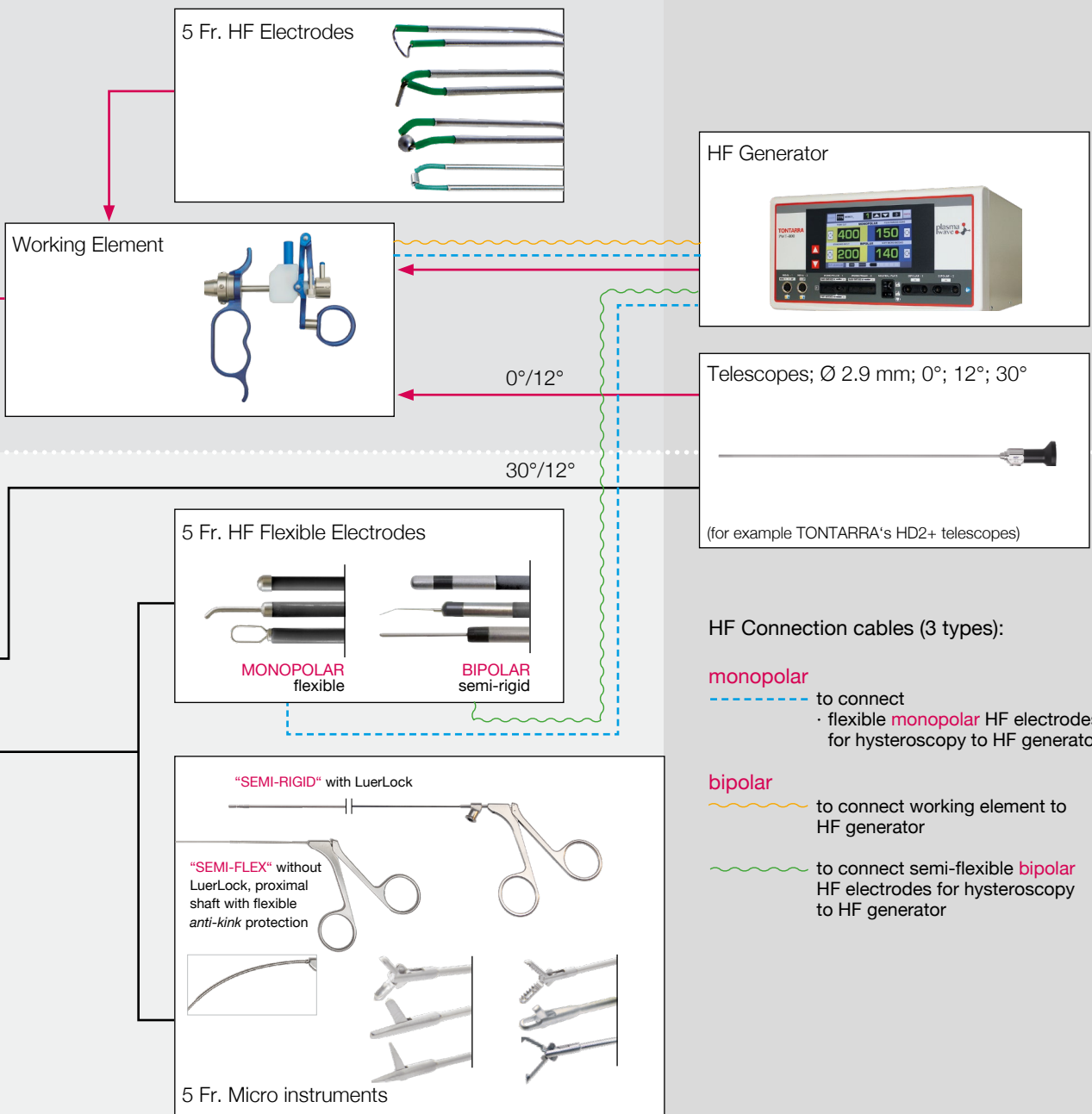
Hysteroscopy and resectoscopy in one single session:

The one-time placement of the outer sheath allows to change from hysteroscopy to resectoscopy during an intervention. The Quick Lock connecting system enables a smooth exchange of working sheath and inner sheath.



Small diameter, high functionality:

The small sizes of sheaths and micro tools reduce tissue damages and the general strain on patients, while the size and form of the specially designed loops also still facilitate the treatment of larger myoma, or extended intracavitary lesions.



RESECTOSCOPY

HYSTEROSCOPY

MINI-HYSTERO-RESECTOSCOPY SYSTEM


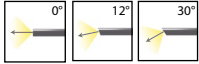

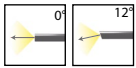

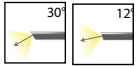

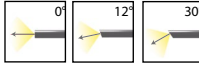

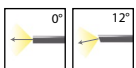

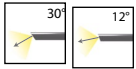



- ▶ For Ø 2.9 mm telescopes
- ▶ Continuous flow resectoscopy- & working sheaths with 5 Fr. instrument channel; sheaths with allround perforation

■ 17.5/18.5 Fr.

CONTINUOUS FLOW SHEATHS; WORKING SHEATHS ▶ rotatable or non-rotatable



| Rotatable | Color code | Art. No. | Information |
|---|----------------|------------|---|
| OUTER SHEATH ▶ 18.5 Fr.  | ■ green | 582-180-24 |  |
| INNER SHEATH ▶ 17.5 Fr.  | ■ green | 582-180-26 |  |
| WORKING SHEATH with instrument channel 5 Fr. ▶ for 18.5 Fr.  | ■ green | 582-180-39 |  |
| Non-rotatable | | | |
| OUTER SHEATH ▶ 18.5 Fr.  | ■ ■ green/blue | 582-180-22 |  |
| INNER SHEATH ▶ 17.5 Fr.  | ■ green | 582-180-21 |  |
| WORKING SHEATH with instrument channel 5 Fr. for use with 582-180-22 ▶ for 18.5 Fr.  | ■ ■ green/blue | 582-180-38 |  |
| OBTURATOR for continuous flow sheaths (rotatable & non-rotatable)  | ■ green | 582-180-23 | |

MINI-HYSTERO-RESECTOSCOPY SYSTEM



- ▶ **Bipolar** working elements for Ø 2.9 mm telescopes
- ▶ Reusable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9%)
- ▶ SALINÆ disposable electrodes for use with **bipolar** current and conductive solution (NaCl 0.9 %)

■ 17.5/18.5 Fr.

BIPOLAR WORKING ELEMENTS; CLOSED HANDLE; HYBRID SYSTEM

- ▶ For use with electrodes in **bipolar** current mode and conductive solution (physiological saline solution, NaCl 0.9 %)



| Description | Art. No. | |
|---|---------------|--|
| WORKING ELEMENT; passive | 582-180-00B | |
| SAFETY DISTANCE HOLDER for bipolar working element, Art. No. 582-180-00B; 1pc. | 582-150-02GUB | |

BIPOLAR HF RESECTOSCOPY ELECTRODES

| Description | Color code | Reusable | SALINÆ Single use electrodes* | |
|---------------------------------|------------|-------------|-------------------------------|--|
| HF LOOP ELECTRODE angled 30° | ■ green | 582-180-40B | 582-180-40B-S | |
| HF LOOP ELECTRODE straight | ■ green | 582-180-41B | 582-180-41B-S | |
| HF KNIFE ELECTRODE | ■ green | 582-180-42B | 582-180-42B-S | |
| HF BALL ELECTRODE Ø 2.0 mm | ■ green | 582-180-43B | 582-180-43B-S | |
| HF ROLLER ELECTRODE Ø 2.0 mm | ■ green | 582-180-44B | - | |

* sterile, single packaged; 5 pcs./box



MINI-HYSTERO-RESECTOSCOPY SYSTEM

- ▶ HF connection cables
- ▶ Compatible Micro-tools

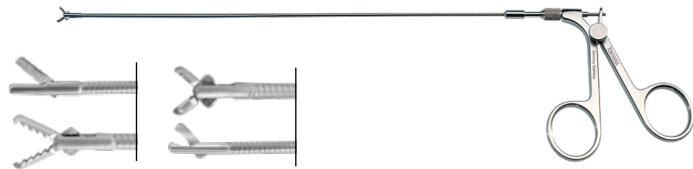
HF CONNECTION CABLES; **BIPOLAR** to connect working elements to HF generator; **BIPOLAR** mode for resectoscopy

| Available for following units: | Length | Art. No. | |
|--|--------|--------------|---|
| Erbe mod. ICC/ACC; Storz | 3.0 m | 287-200-30BR | For further information and pictures see the overview about cables in chapter "HF Generator & Connection cables". |
| Berchthold/Martin mod. Maxium | 3.0 m | 287-205-30BR | |
| TONTARRA mod. PWT-400; International Models; 2-pins | 3.0 m | 287-215-30BR | |
| Erbe mod. VIO 300D and VIO3 with multi-contact connector; Karl Storz mod./Autocon II 400 | 4.0 m | 287-220-30BR | |
| Emed-HF mod. Spectrum | 4.5 m | 287-225-30BR | |
| Bowa mod.; ARC 350 & 400 Karl Storz mod./Autocon III 400 | 4.5 m | 287-230-30BR | |

MICRO TOOLS COMPATIBLE WITH THE MINI-HYSTERO-RESECTOSCOPE

Micro Tools for hysteroscopy can be applied with use of the resectoscope outer sheath in combination with the working sheath:

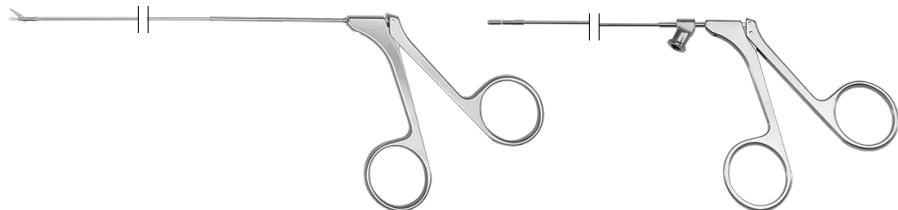
- ▶ 340 / 400 mm semi-rigid instruments (5 Fr. working channels)



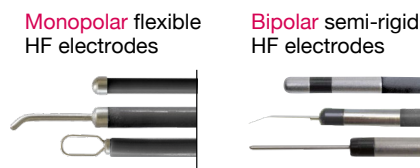
- ▶ 340 mm semi-rigid instruments

"SEMI-FLEX" without LuerLock, proximal shaft with flexible *anti-kink* protection

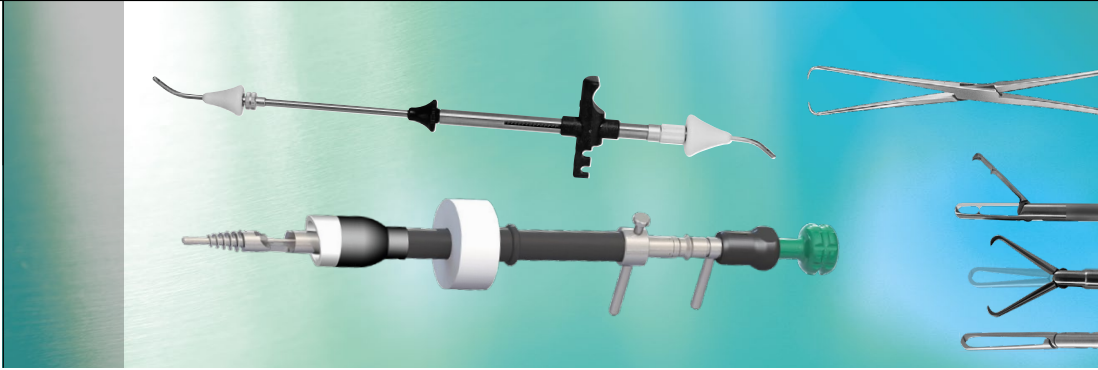
"SEMI-RIGID" with LuerLock LL



- ▶ Flexible **monopolar** and semi-flexible **bipolar** HF electrodes; 5 Fr.



See chapter Hysteroscopy for more details on the micro tools, as well as for cables used with HF electrodes.



INSTRUMENTS FOR GYNECOLOGY

Endoscopic Standard Instruments



Laparoscopic Standard Instruments


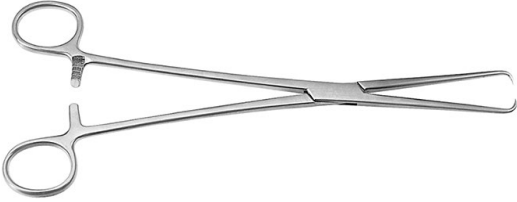




INSTRUMENTS FOR GYNECOLOGY



- ▶ Uterine tenaculum forceps
- ▶ Uterus probes



UTERINE TENACULUM FORCEPS

| Description | | Size | Art. No. |
|------------------------------------|--|-------|------------|
| BARRETT uterine tenaculum forceps |  | 18 cm | 180-410-18 |
| POZZI uterine tenaculum forceps |  | 26 cm | 180-402-26 |
| BRAUN uterine tenaculum forceps |  | 25 cm | 180-404-25 |
| SCHACKE uterus manipulator forceps |  | 23 cm | 180-494-23 |

UTERUS PROBES; Rigid or malleable

| Description | Art. No. | Description | Art. No. |
|---|-------------------------|--|---------------------------|
| SIMS uterus probe; 32 cm  | curved up 180-510-32 | SIMSON uterus probe; 32 cm  | curved down 180-516-32 |
| RIGID | 180-510-32 | RIGID | 180-516-32 |
| MALLEABLE | 180-511-32 | MALLEABLE | 180-518-32 |

INSTRUMENTS FOR GYNECOLOGY



- ▶ Hegar uterine dilators
- ▶ Intra-uterine probe
- ▶ Portio adapters



HEGAR UTERINE DILATORS; Available in sets, or single dilators

| Description | Specification | Art. No. | |
|---|------------------------|------------|--|
| Extra small dilator (not included in a set): | Ø 1.0/2.0 mm | 180-354-01 | |
| SET with 8 DILATORS Ø 3.0/4.0 – Ø 17.0/18.0 mm | Set 8 dilators | 180-354-98 | |
| | Ø 3.0/4.0 mm | 180-354-03 | |
| | Ø 5.0/6.0 mm | 180-354-05 | |
| | Ø 7.0/8.0 mm | 180-354-07 | |
| | Ø 9.0/10.0 mm | 180-354-09 | |
| | Ø 11.0/12.0 mm | 180-354-11 | |
| | Ø 13.0/14.0 mm | 180-354-13 | |
| | Ø 15.0/16.0 mm | 180-354-15 | |
| SET with 12 DILATORS Ø 3.0/4.0 – Ø 25.0/26.0 mm Content: same as set with 8 DILATORS, plus Ø 19.0/20.0 mm to Ø 25.0/26.0 mm | Set 12 dilators | 180-354-99 | |
| | Ø 19.0/20.0 mm | 180-354-19 | |
| | Ø 21.0/22.0 mm | 180-354-21 | |
| | Ø 23.0/24.0 mm | 180-354-23 | |
| | Ø 25.0/26.0 mm | 180-354-25 | |

COHEN INTRA-UTERINE PROBE

| Description | | | |
|---|--|-------------------------|-------------------------|
| COHEN INTRA-UTERINE PROBE ▶ Including 2 portio adapters ▶ Firm positioning of the uterus during surgery ▶ Instillation of contrast medium ▶ Adapters optimally seal towards the cervix | | PORTIO ADAPTER small | PORTIO ADAPTER large |
| 180-530-00 | | 180-530-01 | 180-530-02 |

INSTRUMENTS FOR GYNECOLOGY






- ▶ Endospecula
- ▶ Endometrium suction biopsy curettes

ENDOSPECULA

▶ Ø 3.0 / 4.0 / 5.0 mm


▶ FL 28.0 cm / 11"

| Description | | Diameter | Art. No. |
|---|---|----------|------------|
| KOGAN ENDOSPECULUM ▶ without ratchet |  | Ø 3.0 mm | 180-090-03 |
| | | Ø 4.0 mm | 180-090-04 |
| | | Ø 5.0 mm | 180-090-05 |
| KOGAN ENDOSPECULUM ▶ with ratchet |  | Ø 3.0 mm | 180-092-03 |
| | | Ø 4.0 mm | 180-092-04 |
| | | Ø 5.0 mm | 180-092-05 |
| KOGAN ENDOSPECULUM ▶ with ratchet ▶ insulated |  | Ø 3.0 mm | 180-093-03 |
| | | Ø 4.0 mm | 180-093-04 |
| | | Ø 5.0 mm | 180-093-05 |

ENDOMETRIUM SUCTION BIOPSY CURETTES

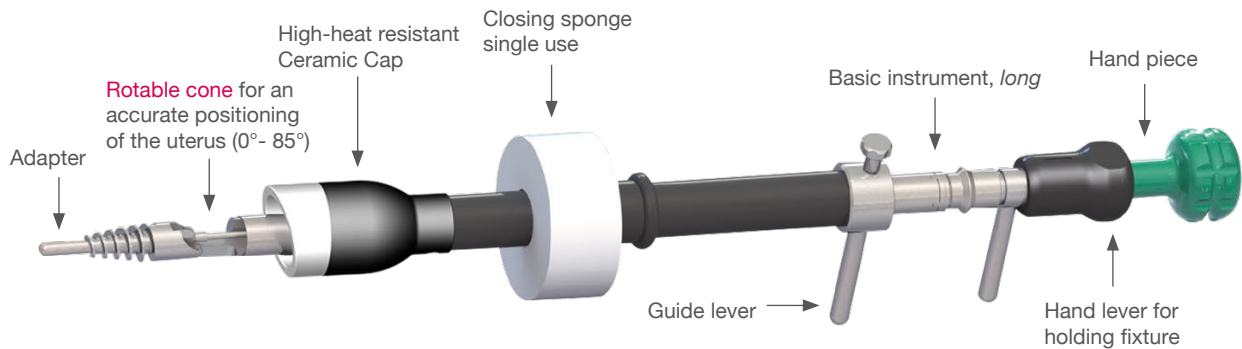
▶ Ø 1.0 / 2.0 / 3.0 / 4.0 mm

▶ FL 23.0 cm / 9.2"

| Description | | Diameter | Art. No. |
|--|--|----------|------------|
| NOVAK ENDOMETRIUM SUCTION BIOPSY CURETTE |  | Ø 1.0 mm | 180-550-01 |
| | | Ø 2.0 mm | 180-550-02 |
| | | Ø 3.0 mm | 180-550-03 |
| | | Ø 4.0 mm | 180-550-04 |


LAPAROSCOPIC INSTRUMENTS FOR GYNECOLOGY

► **solidUterus** – rigid Uterus Manipulator


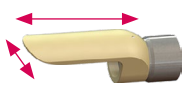




UTERUS MANIPULATOR

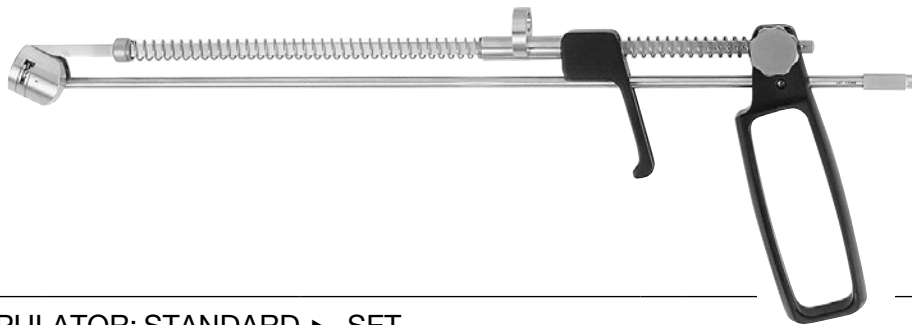
► SET

| Description | Art. No | |
|--|-------------|--|
| UTERUS MANIPULATOR SET | 02-00045-1 |  |
| consisting of: ► 1 x basic instrument | 02-00045-10 | |
| ► 1 x counter hold tube | 02-00145-11 | |
| ► 1 x ceramic cap; Ø 36 mm | 02-00045-13 | |
| ► Adapter-Set with 11 tips; 20-120 mm | 02-00053 | |
| ► Closing sponge (5 pcs.); sterile; disposable | 02-00052 | |

ACCESSORIES / SPARE PARTS

| | | | |
|---|-------------|---|-------------|
|  | |  | |
| CERAMIC CAP (high-heat resistant; long evity); 1 pc. | | PEEK CAP 1 pc. | |
| Ø 32.0 mm | 02-00045-12 | | |
| Ø 36.0 mm | 02-00045-13 | 25 x 50 mm | 02-00045-22 |
| Ø 40.0 mm | 02-00045-14 | 30 x 50 mm | 02-00045-23 |
|  | |  | |
| ADAPTER SET WITH 11 TIPS ► 20 - 120 mm | | CLOSING SPONGE | |
| Set complete | 02-00053 | 5 pcs.; sterile; disposable | 02-00052 |







LAPAROSCOPIC INSTRUMENTS FOR GYNECOLOGY



UTERUS MANIPULATOR; STANDARD ► SET

| Description | Art. No |
|--|------------|
| UTERUS MANIPULATOR SET (tips can also be ordered separately; Art. No's see below) | 587-060-00 |
| consisting of: ► 1 x basic instrument ► 6 x tips | 587-060-01 |
| | 587-061-08 |
| | 587-061-10 |
| | 587-063-45 |
| | 587-063-55 |
| | 587-064-60 |
| 587-064-70 | |
| UTERUSMANIPULATOR; without tips | 587-060-01 |

TIPS FOR UTERUS MANIPULATOR

| Description | Art. No. | Description | Art. No. |
|---|------------|--|------------|
| Ø 8.0 mm; 80 mm  | 587-061-08 | Ø 10.0 mm; 100 mm  | 587-061-10 |
| Ø 3.0 mm; 45 mm  | 587-063-45 | Ø 3.0 mm; 55 mm  | 587-063-55 |
| TIP SHORT; with cone; Ø 3.3 mm; 60 mm  | 587-064-60 | TIP LONG, with cone; Ø 3.3 mm; 70 mm  | 587-064-70 |

LAPAROSCOPIC INSTRUMENTS FOR GYNECOLOGY

► Accessories for morcellation



MYOMA DRILL ► 5.0 / 10.0 mm **FL** 330 / 420 mm

| Description | Diameter | FL | Art. No. |
|-----------------|-----------|--------|------------|
| MYOMA DRILL | Ø 10.0 mm | 330 mm | 587-210-33 |
| | | 420 mm | 587-210-42 |
| | Ø 5.0 mm | 330 mm | 587-205-32 |
| | | 420 mm | 587-205-42 |

FORCEPS ► 5.0 / 10.0 mm **FL** 420 mm ► one-piece instruments (non-detachable)





| Description | Diameter | FL | Art. No. |
|-----------------------|-----------|--------|------------|
| TENACULUM-FORCEPS | Ø 5.0 mm | 420 mm | 587-220-05 |
| CLAW FORCEPS | Ø 10.0 mm | 420 mm | 587-220-10 |
| TENACULUM-FORCEPS | Ø 10.0 mm | 420 mm | 587-225-10 |

LAPAROSCOPIC INSTRUMENTS FOR GYNECOLOGY

► Ring Applicators



RING APPLICATORS

| Description | Art. No. | Information |
|---|------------|--|
| <p>RING APPLICATOR for TUBE STERILIZATION (reversible)</p> <p>➡ Ø 6.5 mm trocars</p>  | 587-230-30 | <p>► for 2 loops per application</p> <p>► simple click mechanism</p> |
| <p>RING APPLICATOR for OP-LAPARASCOPE</p> <p>➡ Ø 6.0 mm laparoscopes</p>  | 587-235-30 | <p>► for 2 loops per application</p> <p>► simple click mechanism</p> |
| <p>APPLIER</p>  | 587-231-65 | |
| <p>INSERT CONE</p>  | 587-232-65 | |

To be used with an operation Laparoscope.



HF GENERATOR & CONNECTION CABLES



HF GENERATOR **PLASMA WAVE**

▶ PWT-400



HF Generator for electrical surgery **PWT-400**
SMART - SAFE - POWERFUL

Many options – one device.



SMART

- ▶ Multi disciplinary use
- ▶ Optimized modes for various clinical applications
- ▶ 99 storage positions for application-specific programs/profiles
 - All presets can be adapted individually
 - Customizable program settings and descriptions

SAFE

- ▶ Self-test during system start and permanent auto check during use
- ▶ Current leakage monitoring
- ▶ Neutral electrode monitoring:
 - use of small neutral electrodes for pediatrics or neonates possible
 - use of split neutral electrodes possible

POWERFUL

- ▶ Accurate, smooth incisions and effective coagulation due to optimized presettings
- ▶ 14 monopolar and bipolar cutting modes and 10 coagulation modes; self-adjusting of output power

HYBRID RESECTOSCOPY SYSTEMS

- ▶ **A perfect match!** The Plasma Wave HF generator and the TONTARRA bipolar resectoscopy system are perfectly synchronized to each other. Excellent resection effect due to precisely adjusted parameters.

For technical data & more details please ask for our Plasma Wave brochure.



- ▶ Suitable for monopolar and bipolar applications
- ▶ The unit features the simultaneous use of two monopolar handles
- ▶ Compatible with one or two twin foot-switches
- ▶ Intuitive menu navigation via touch display



Twin foot-switch

HF connection cables for PWT-400

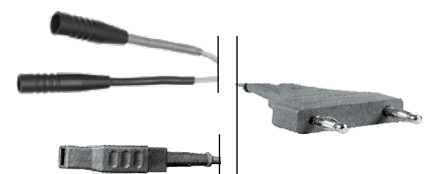
HF-connection cables **monopolar**

3 m: Art. No. 582-533-04



HF-connection cables **bipolar**, to connect:

- working element to HF generator
 3 m: Art. No. 287-215-30BR





- bipolar electrodes to HF generator
 3 m: Art. No. 287-215-30
 5 m: Art. No. 287-215-50

HF GENERATOR & HF CONNECTION CABLES



- ▶ HF Unit Plasma Wave PWT 400

HF UNIT PLASMA WAVE





| Description | Art. No. |
|--|------------|
| PWT-400 Plasma Wave; HF generator for electrical surgery   | 540-280-50 |
| TWIN FOOT-SWITCH  | 540-285-50 |

HF CONNECTION CABLES

- ▶ Monopolar HF connection cables

HF CONNECTION CABLES; **MONOPOLAR**

- ▶ to connect working elements to HF generator; **monopolar** mode for resectoscopy
- ▶ to connect flexible **monopolar** HF electrodes for hysteroscopy to HF generator

| Available for following units: | 3.0 m | Instrument-side | Unit-side |
|---|------------|--|---|
| Erbe/ICC/ACC/Storz; Ø 5.0 mm | 582-531-02 |  |  |
| Valleylab; Conmed; Bowa Ø 8.0 mm | 582-532-03 | |  |
| TONTARRA mod. PWT-400; Equipment with banana plug; Ø 4.0 mm | 582-533-04 | |  |

HF CONNECTION CABLES

- ▶ Bipolar HF connection cables



HF CONNECTION CABLES; **BIPOLAR** ▶ to connect working element to HF generator;
bipolar mode for resectoscopy

| Description | Length | Art. No. | Instrument-side | Unit-side |
|---|--------|--------------|-----------------|-----------|
| Erbe mod. ICC/ACC; Storz | 3.0 m | 287-200-30BR | | |
| Berchthold/Martin mod. Maxium | 3.0 m | 287-205-30BR | | |
| TONTARRA mod. PWT-400; International Models; 2-pins | 3.0 m | 287-215-30BR | | |
| Erbe mod. VIO300D; Erbe mod. VIO3; with multi-contact connector; Karl Storz mod. Autocon II 400 | 3.0 m | 287-220-30BR | | |
| Emed-HF mod. Spectrum | 4.0 m | 287-225-30BR | | |
| Bowa mod. ARC 350 & 400 Karl Storz mod. Autocon III 400 | 4.5 m | 287-230-30BR | | |

HF CONNECTION CABLES; **BIPOLAR** ▶ to connect semi-flexible **bipolar** HF electrodes for hysteroscopy to HF generator

| Available for following units: | 3.0 m | 5.0 m | Instrument-side | Unit-side |
|--|------------|------------|-----------------|-----------|
| Erbe; Storz/unit side round plug | 287-200-30 | 287-200-50 | flat plug | |
| Berchthold/Martin/unit side round plug | 287-205-30 | 287-205-50 | | |
| US-Models; 2-pins/unit side banana plugs; Ø 4.0 mm | 287-210-30 | 287-210-50 | | |
| TONTARRA mod. PWT-400; Valleylab; International Models; 2 pins; Ø 4.0 mm | 287-215-30 | 287-215-50 | | |



ACCESSORIES





General Gynecologic Accessories
Maintenance, Storage & Sterilization

ACCESSORIES


- ▶ Evacuator; Bladder Syringes; Tubing Connectors & Sealing caps



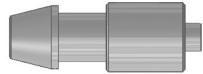




ELLIK EVACUATOR & SHEATH CONNECTIONS

| Description | | Art. No. |
|---|---|--------------|
| ELLIK EVACUATOR without connection; glass Content: Glass 582-400-20; Ball 582-400-25 |  | 582-400-05 |
| SHEATH CONNECTION with locking Conus length: 36 mm; Tube length: 115 mm |  | 582-400-10 |
| SHEATH CONNECTION for ELLIK evacuator with connection; Quick Lock Conus length: 36 mm; Tube length: 115 mm |  | 582-400-10QL |
| SHEATH CONNECTION with cone Conus length: 32.7 mm; Tube length: 115 mm |  | 582-400-15 |

BLADDER SYRINGES

| Size | With sheath connection | Glass cylinder only |
|--------|---|--|
| |  | For your convenience we also offer the cylinder as spare part. |
| 50 ml | 582-410-05 | 582-410-05Z |
| 75 ml | 582-410-07 | 582-410-07Z |
| 100 ml | 582-410-10 | 582-410-10Z |
| 150 ml | 582-410-15 | 582-410-15Z |

TUBING CONNECTORS & SEALING CAPS

| Description | | Art. No. |
|--|---|------------|
| LuerLock TUBING CONNECTOR |  | 087-940-01 |
| LuerLock TUBING CONNECTOR with STOPCOCK |  | 087-940-02 |
| SEALING CAP for instrument channel with special WATER STOP VALVE; 10 pcs. per box | 3-10 Fr.  | 499-198-00 |
| SEALING CAP for instrument channel 10 pc. per box |  | 499-199-00 |
| SHAFT SEALING ADAPTER for use in female urethroscopy |  | 582-090-00 |



ACCESSORIES

- ▶ Maintenance; storage & sterilization

MAINTENANCE; STORAGE & STERILIZATION

| Description | Art. No. |
|---|-------------------|
| <p>TAP & STOPCOCK LUBRICANT;</p> <ul style="list-style-type: none"> ▶ special grease for surgical instruments (especially for stopcocks) ▶ 5 gram per box | <p>582-095-00</p> |
| <p>INSTRUCARE INSTRUMENT OIL SPRAY T3000</p> <ul style="list-style-type: none"> ▶ 400 ml | <p>265-950-40</p> |



PROTECTION

| Description | Art. No. |
|--|-------------------------------------|
| <p>PROTECTING SLEEVE FOR ALL TELESCOPES</p> <ul style="list-style-type: none"> ▶ easy handling; ▶ up to Ø 5.0 mm ▶ reusable ▶ Plastic sleeve | <p>590-000-01 (10 pcs./box)</p> |
| <p>PROTECTING SLEEVE for ELECTRODES</p> <p>for storage and sterilization for up to 8 electrodes, reusable</p> | <p>590-000-03</p> |





INDEX

| | | | | | | | |
|--------------|----|---------------|----|---------------|----|---------------|----|
| 02-00045-1 | 51 | 287-215-30 | 19 | 582-180-41B-S | 45 | 583-222-16A | 18 |
| 02-00045-10 | 51 | 287-215-30 | 58 | 582-180-42B | 45 | 583-222-23 | 18 |
| 02-00045-12 | 51 | 287-215-30BR | 29 | 582-180-42B-S | 45 | 583-222-23A | 18 |
| 02-00045-13 | 51 | 287-215-30BR | 40 | 582-180-43B | 45 | 583-228-16 | 17 |
| 02-00045-14 | 51 | 287-215-30BR | 46 | 582-180-43B-S | 45 | 583-228-16FS | 17 |
| 02-00045-22 | 51 | 287-215-30BR | 58 | 582-180-44B | 45 | 583-228-16LL | 17 |
| 02-00045-23 | 51 | 287-215-50 | 19 | 582-400-05 | 60 | 583-229-16 | 17 |
| 02-00052 | 51 | 287-215-50 | 58 | 582-400-10 | 60 | 583-229-16FS | 17 |
| 02-00053 | 51 | 287-220-30BR | 29 | 582-400-10QL | 60 | 583-229-16LL | 17 |
| 02-00145-11 | 51 | 287-220-30BR | 40 | 582-400-15 | 60 | 583-232-23 | 18 |
| 087-940-01 | 60 | 287-220-30BR | 46 | 582-405-05 | 60 | 583-232-23A | 18 |
| 087-940-02 | 60 | 287-220-30BR | 58 | 582-405-07 | 60 | 583-250-16G | 17 |
| 180-090-03 | 50 | 287-225-30BR | 29 | 582-405-10 | 60 | 583-250-40G | 17 |
| 180-090-04 | 50 | 287-225-30BR | 40 | 582-405-15 | 60 | 583-252-16 | 18 |
| 180-090-05 | 50 | 287-225-30BR | 46 | 582-410-05 | 60 | 583-252-16A | 18 |
| 180-092-03 | 50 | 287-225-30BR | 58 | 582-410-05Z | 60 | 583-252-23 | 18 |
| 180-092-04 | 50 | 287-230-30BR | 29 | 582-410-07 | 60 | 583-252-23A | 18 |
| 180-092-05 | 50 | 287-230-30BR | 40 | 582-410-07Z | 60 | 583-256-16 | 17 |
| 180-093-03 | 50 | 287-230-30BR | 46 | 582-410-10 | 60 | 583-256-16A | 18 |
| 180-093-04 | 50 | 287-230-30BR | 58 | 582-410-10Z | 60 | 583-256-16FS | 17 |
| 180-093-05 | 50 | 499-198-00 | 60 | 582-410-15 | 60 | 583-256-16LL | 17 |
| 180-354-01 | 49 | 499-199-00 | 60 | 582-410-15Z | 60 | 583-258-16 | 17 |
| 180-354-03 | 49 | 540-280-50 | 57 | 582-510-03 | 19 | 583-258-16LL | 17 |
| 180-354-05 | 49 | 540-285-50 | 57 | 582-510-05 | 19 | 583-262-16 | 18 |
| 180-354-07 | 49 | 540-803-18 | 8 | 582-510-07 | 19 | 583-262-16A | 18 |
| 180-354-09 | 49 | 540-803-23 | 8 | 582-511-05 | 19 | 583-262-23 | 18 |
| 180-354-11 | 49 | 540-803-30 | 8 | 582-511-07 | 19 | 583-262-23A | 18 |
| 180-354-13 | 49 | 540-803-50 | 8 | 582-514-05 | 19 | 583-272-16 | 18 |
| 180-354-15 | 49 | 540-812-18 | 8 | 582-514-07 | 19 | 583-272-16A | 18 |
| 180-354-17 | 49 | 540-812-23 | 8 | 582-515-05 | 19 | 583-278-16 | 17 |
| 180-354-19 | 49 | 540-812-30 | 8 | 582-516-05 | 19 | 583-278-16LL | 17 |
| 180-354-21 | 49 | 540-812-50 | 8 | 582-517-05 | 19 | 583-280-00 | 17 |
| 180-354-23 | 49 | 540-813-18 | 8 | 582-518-05 | 19 | 583-280-00 | 17 |
| 180-354-25 | 49 | 540-813-23 | 8 | 582-531-02 | 19 | 583-305-00 | 18 |
| 180-354-98 | 49 | 540-813-30 | 8 | 582-531-02 | 35 | 587-060-00 | 52 |
| 180-354-99 | 49 | 540-815-18 | 8 | 582-531-02 | 40 | 587-060-01 | 52 |
| 180-402-26 | 48 | 540-815-23 | 8 | 582-531-02 | 57 | 587-060-01 | 52 |
| 180-404-25 | 48 | 540-815-30 | 8 | 582-532-03 | 19 | 587-061-08 | 52 |
| 180-410-18 | 48 | 540-815-50 | 8 | 582-532-03 | 35 | 587-061-08 | 52 |
| 180-494-23 | 48 | 540-822-18 | 8 | 582-532-03 | 40 | 587-061-10 | 52 |
| 180-510-32 | 48 | 540-822-23 | 8 | 582-532-03 | 57 | 587-061-10 | 52 |
| 180-511-32 | 48 | 540-822-30 | 8 | 582-533-04 | 19 | 587-063-45 | 52 |
| 180-516-32 | 48 | 540-822-50 | 8 | 582-533-04 | 35 | 587-063-45 | 52 |
| 180-518-32 | 48 | 540-823-18 | 8 | 582-533-04 | 40 | 587-063-55 | 52 |
| 180-530-00 | 49 | 540-823-23 | 8 | 582-533-04 | 57 | 587-064-60 | 52 |
| 180-530-01 | 49 | 540-823-30 | 8 | 583-012-16 | 18 | 587-064-60 | 52 |
| 180-530-02 | 49 | 540-823-50 | 8 | 583-012-16A | 18 | 587-064-70 | 52 |
| 180-550-01 | 50 | 540-880-01 | 8 | 583-012-23 | 18 | 587-064-70 | 52 |
| 180-550-02 | 50 | 540-880-02 | 8 | 583-012-23A | 18 | 587-205-32 | 53 |
| 180-550-03 | 50 | 540-880-04 | 8 | 583-022-16 | 18 | 587-205-42 | 53 |
| 180-550-04 | 50 | 540-880-05 | 8 | 583-022-16A | 18 | 587-210-33 | 53 |
| 265-950-40 | 61 | 540-880-13 | 8 | 583-022-23 | 18 | 587-210-42 | 53 |
| 287-200-30 | 19 | 540-890-01 | 8 | 583-022-23A | 18 | 587-220-05 | 53 |
| 287-200-30 | 58 | 540-890-02 | 8 | 583-032-23 | 18 | 587-220-10 | 53 |
| 287-200-30BR | 29 | 540-890-04 | 8 | 583-032-23A | 18 | 587-225-10 | 53 |
| 287-200-30BR | 40 | 540-890-10 | 8 | 583-052-16 | 18 | 587-230-30 | 54 |
| 287-200-30BR | 46 | 540-890-14 | 8 | 583-052-16A | 18 | 587-231-65 | 54 |
| 287-200-30BR | 58 | 582-090-00 | 60 | 583-052-23 | 18 | 587-232-65 | 54 |
| 287-200-50 | 19 | 582-095-00 | 61 | 583-052-23A | 18 | 587-235-30 | 54 |
| 287-200-50 | 58 | 582-150-02GUB | 25 | 583-062-16 | 18 | 590-000-01 | 61 |
| 287-205-30 | 19 | 582-150-02GUB | 45 | 583-062-16A | 18 | 590-000-03 | 61 |
| 287-205-30 | 58 | 582-180-00B | 45 | 583-062-23 | 18 | 601-102-00 | 7 |
| 287-205-30BR | 29 | 582-180-21 | 44 | 583-062-23A | 18 | 601-102-30 | 7 |
| 287-205-30BR | 40 | 582-180-22 | 44 | 583-072-16 | 18 | 601-103-00HD2 | 7 |
| 287-205-30BR | 46 | 582-180-23 | 44 | 583-072-16A | 18 | 601-103-12HD2 | 7 |
| 287-205-30BR | 58 | 582-180-24 | 44 | 583-212-16 | 18 | 601-103-30HD2 | 7 |
| 287-205-50 | 19 | 582-180-26 | 44 | 583-212-16A | 18 | 601-104-00HD | 6 |
| 287-205-50 | 58 | 582-180-38 | 44 | 583-212-23 | 18 | 601-104-00HD2 | 6 |
| 287-210-30 | 19 | 582-180-39 | 44 | 583-212-23A | 18 | 601-104-12HD | 6 |
| 287-210-30 | 58 | 582-180-40B | 45 | 583-214-16 | 17 | 601-104-12HD2 | 6 |
| 287-210-50 | 19 | 582-180-40B-S | 45 | 583-214-16LL | 17 | 601-104-30HD | 6 |
| 287-210-50 | 58 | 582-180-41B | 45 | 583-222-16 | 18 | 601-104-30HD2 | 6 |



INDEX

| | | | | | | | |
|---------------|----|---------------|----|---------------|----|--------------|----|
| 601-104-70HD | 6 | 630-235-11 | 30 | 630-304-01 | 39 | 640-015-31 | 13 |
| 601-104-70HD2 | 6 | 630-235-60 | 30 | 630-304-21 | 39 | 640-015-32 | 13 |
| 601-112-00 | 7 | 630-235-60B | 25 | 630-309-01 | 39 | 640-015-34 | 13 |
| 601-112-30 | 7 | 630-235-61 | 30 | 630-309-21 | 39 | 640-015-41 | 13 |
| 601-114-00HD | 6 | 630-240-00 | 31 | 630-315-19 | 39 | 640-015-42 | 13 |
| 601-114-00HD2 | 6 | 630-240-00B | 28 | 630-325-19 | 39 | 640-015-44 | 13 |
| 601-114-12HD | 6 | 630-240-00BPI | 28 | 630-335-10 | 38 | 640-015-45 | 13 |
| 601-114-12HD2 | 6 | 630-240-00B-S | 28 | 630-335-10B | 38 | 640-022-33 | 14 |
| 601-114-30HD | 6 | 630-240-01 | 35 | 630-335-60 | 38 | 640-022-43 | 14 |
| 601-114-30HD2 | 6 | 630-240-05 | 31 | 630-335-60B | 38 | 640-022-53 | 14 |
| 601-114-70HD | 6 | 630-240-05B | 28 | 630-340-00 | 40 | 640-025-21 | 15 |
| 601-114-70HD2 | 6 | 630-240-06 | 35 | 630-340-00B | 40 | 640-025-22 | 15 |
| 601-132-00 | 7 | 630-240-10 | 31 | 630-340-00B-S | 40 | 640-025-31 | 15 |
| 601-132-30 | 7 | 630-240-10B | 28 | 630-340-05 | 40 | 640-025-32 | 15 |
| 630-035-00 | 33 | 630-240-10B-S | 28 | 630-340-05B | 40 | 640-025-41 | 15 |
| 630-035-05 | 33 | 630-240-11 | 35 | 630-340-05B-S | 40 | 640-025-42 | 15 |
| 630-035-10 | 33 | 630-240-15 | 31 | 630-340-10 | 40 | 640-025-51 | 15 |
| 630-035-13 | 33 | 630-240-15B | 28 | 630-340-10B | 40 | 640-025-52 | 15 |
| 630-035-15 | 33 | 630-240-15B-S | 28 | 630-340-10B-S | 40 | 640-026-31 | 16 |
| 630-035-20 | 33 | 630-240-20 | 31 | 630-340-15 | 40 | 640-026-32 | 16 |
| 630-035-25 | 27 | 630-240-20B | 28 | 630-340-15B | 40 | 640-026-41 | 16 |
| 630-035-25 | 33 | 630-240-25 | 31 | 630-340-15B-S | 40 | 640-026-42 | 16 |
| 630-035-25 | 34 | 630-240-25B | 28 | 630-340-20 | 40 | 640-026-51 | 16 |
| 630-200-24 | 30 | 630-240-30 | 31 | 630-350-05 | 36 | 640-026-52 | 16 |
| 630-200-27 | 35 | 630-240-30B | 28 | 630-350-55 | 36 | BELO/2-PB02N | 20 |
| 630-202-24 | 30 | 630-240-35 | 31 | 630-350-90 | 36 | | |
| 630-202-27 | 35 | 630-240-35B | 28 | 630-351-05 | 36 | | |
| 630-204-06 | 26 | 630-240-40 | 31 | 630-351-55 | 36 | | |
| 630-204-07 | 26 | 630-240-40B | 28 | 630-351-90 | 36 | | |
| 630-204-08 | 34 | 630-240-40B-S | 28 | 630-352-05 | 36 | | |
| 630-204-26 | 26 | 630-240-41 | 35 | 630-352-55 | 36 | | |
| 630-204-28 | 34 | 630-240-45 | 31 | 630-352-90 | 36 | | |
| 630-209-06 | 26 | 630-240-45B | 29 | 640-010-20 | 12 | | |
| 630-209-07 | 26 | 630-240-50 | 31 | 640-010-23 | 12 | | |
| 630-209-08 | 34 | 630-240-55 | 31 | 640-010-25 | 12 | | |
| 630-209-26 | 26 | 630-240-60 | 31 | 640-010-27 | 12 | | |
| 630-209-28 | 34 | 630-240-60B | 29 | 640-010-30 | 12 | | |
| 630-215-24 | 27 | 630-240-65 | 31 | 640-010-33 | 12 | | |
| 630-215-27 | 34 | 630-240-70 | 31 | 640-010-35 | 12 | | |
| 630-220-24 | 27 | 630-240-75B | 29 | 640-010-35 | 13 | | |
| 630-220-27 | 34 | 630-250-00 | 32 | 640-010-40 | 12 | | |
| 630-225-24 | 27 | 630-250-05 | 32 | 640-010-43 | 12 | | |
| 630-225-27 | 34 | 630-250-10 | 32 | 640-010-45 | 12 | | |
| 630-230-24 | 27 | 630-250-15 | 32 | 640-015-21 | 13 | | |
| 630-230-27 | 34 | 630-250-20 | 32 | 640-015-22 | 13 | | |
| 630-235-10 | 30 | 630-250-25 | 32 | 640-015-24 | 13 | | |
| 630-235-10B | 25 | 630-300-19 | 39 | 640-015-25 | 13 | | |



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