## REF Numbers Overview

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Colour Coding & Legend to Symbols

The colour coding should help you see the properties of the tube at a glance. All outer packaging of the twist, vario and kids product lines is colour coded in this way.

- **Green**: TRACOE tracheostomy tube without extras
- **Red**: TRACOE tracheostomy tube with cuff
- **Yellow**: TRACOE fenestrated tracheostomy tube
- **Dark Grey**: TRACOE tracheostomy tube with subglottic suction line and cuff
- **Dark Green**: TRACOE tracheostomy tube with subglottic suction line, fenestrated and with cuff
- **Pink**: TRACOE tracheostomy tube for neonates
- **Orange**: TRACOE tracheostomy tube for children
- **Blue**: TRACOE fenestrated tracheostomy tube with cuff
- **Blue with White**: TRACOE tracheostomy tube with cuff and air supply line for speaking
- **Blue**: TRACOE tracheostomy tube for neonates, with H2O cuff
- **Blue**: TRACOE tracheostomy tube for children, with H2O cuff

Legend to Symbols

Like the colour coding, the symbols should help you to identify the main specifications of the tube. These symbols also appear on the outer packaging.

- **Black Stripes**: The black stripes indicate a spiral-reinforced tracheostomy tube
- **PL**: PL means a ‘proximal longer’ tracheostomy tube
- **TRACOE**: TRACOE tracheostomy tube for neonates and infants
- **TRACOE**: TRACOE tracheostomy tube for children
- **Plus Symbol**: The plus symbol indicates the plus product lines comfort plus and twist plus
- **XL**: XL indicates an extra-long tracheostomy tube
- **Speaking Valve**: Speaking valve or fenestrated tracheostomy tube with integrated speaking valve
- **Fenestrated**: Fenestrated tracheostomy tube
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Working together to achieve common goals

TRACOE is a community of committed co-workers with a common goal – to develop, produce, and distribute great products successfully and sustainably.

We are one big family made up of TRACOE medical GmbH, MC Europe B.V. and KAPITEX Healthcare Ltd. People with a very special company vision are the reason for the long-term success of the TRACOE company group. Flat organisational structures and a shared sense of trust are just as integral to our culture as uncompromising quality and innovative products. These values form our common understanding and drive our future growth.

Together, we want to help improve the quality of life for patients and increase treatment success for medical staff – Quality by People for People.
FAMILY BUSINESS OWNER & GLOBAL PLAYER

Stephan Köhler

From garage start-up to global company

Stephan Köhler, Managing Director of TRACOE medical, has literally grown up with TRACOE and is the third generation to run the family business. Since 1990, he has been realising his vision and grown the company into a global player. The family atmosphere, motivated staff, and not least the innovative products define the image of TRACOE today. Short communication channels with customers, permanent points of contact in the national and international sales teams, and fast reaction times guarantee high reliability for our customers. We take customer service seriously.

The production site in Germany is an important part of the strategy, to ensure the quality and stability associated with "Made in Germany". We want to grow sustainably without losing the special character of a medium-sized family business. An additional production facility for silicone in Nieder-Olm is a clear continuation of this strategy. Customers can rely on new, high-quality products and an ever-expanding range.
Enabling growth to stay ahead of the game

Dr. Thomas Jurisch has been the second managing director since 2014. With his vision and a structured approach, he provides essential support for TRACOE. His main objective is to guarantee the future viability of TRACOE in all areas by optimising the organisational structure and processes. This includes ensuring effectiveness and efficiency through transparency at all levels and the gradual digital transformation of business processes. With enterprising decisions, he and his team are guiding the technology into the 21st century. Reconstructing and extending production has helped us to understand and respond more quickly to client requirements – from development to the finished product.

At the same time, global regulatory requirements on the medical technology market are also becoming more demanding. Process optimisation and quality management are therefore essential to face future challenges. Last but not least, the company is driven by Research & Development, which provides the innovative force to develop quality hi-tech medical devices for the well-being of our customers.
Great achievements with minimal resources

Founded in 2010, MC Europe B.V. has been part of the TRACOE group since 2011. Using his extensive clinical know-how and relying on a professional and effective team, managing director and co-owner Richard van Goor has succeeded in building up markets in the entire Benelux area.

The company specialises in mechanical ventilation and excels through the use of innovative and high-quality medical devices – combined with expert advice for the customer. Richard van Goor and his team work with leading manufacturers from all over the world to develop pragmatic solutions and innovative products. This approach is of prime importance in the TRACOE Group, as the wealth of experience provides new impetus for product development and marketing strategies, benefitting doctors and patients alike.
Thinking outside the box and creating new structures

A longstanding collaborative partner of many years has now become a sister company of TRACOE: KAPITEX Healthcare Ltd. has been part of the TRACOE family since 2016. Managing partner Ian Worthington has developed a similar culture with his team in Great Britain as that of TRACOE in Germany: informal atmosphere, flat hierarchies and customer communication based on mutual trust. The passionate developer and designer has modernised the company and has a clear vision for its future.

“Airway intelligence” is their passion. The company primarily specialises in airway management – maintaining and ensuring respiratory function in tracheostomy and laryngectomy patients. KAPITEX also develops and manufactures its own products, which makes it the perfect sister company. The amalgamation of the two companies has resulted in both of them being able to offer a more complete and extensive product range. This variety of products not only benefits the group, but our customers too.
A Proven Technique

Percutaneous dilatation tracheotomy (PDT) has become routine practice in intensive care. The Ciaglia technique is now the method most widely used. The TRACOE experc system is based on this proven technique.

The sets are tailored to the use of fenestrated and non-fenestrated tracheostomy tubes, including tubes with sub-glottic suction lines, from the TRACOE twist, twist plus, and TRACOE vario product lines. They are supplied already mounted on their minimally traumatic insertion systems (P-tubes). Inserting the tube into the patient via an introducer is a particular challenge of the percutaneous dilatation.
Our Innovation

Thanks to the patented minimally traumatic inserter and minimally traumatic insertion system, TRACOE experc sets offer the solution: the soft silicone sleeve at the tip of the instrument smoothly bridges the gap in diameter between the inserter and the tube, thus allowing the tube to be introduced safely and easily.

The Variable System

The TRACOE twist, including twist plus, and TRACOE vario product lines include 14 different P-tubes (all DEHP-free) with a minimally traumatic insertion system. Six of these tubes have subglottic suction lines. Sets are available in sizes 07 – 09. The TRACOE twist plus also comes in size 10. The TRACOE experc sets can therefore be used with the tracheostomy tube that is most appropriate for the patient.
The TRACOE percutan product line offers the possibility of ordering the dilatation set alone or as a set including a P-tube from the twist, twist plus, vario and vario XL product lines.

The special feature of the pre-mounted tube is its unique minimally traumatic inserter, which perfectly complements the percutaneous dilatational tracheotomy procedure. You will find details of the various inserters and how they function on the following pages.
**TRACOE percutan – experc Set & Seldinger Guide Wire**

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**REF 520**

**TRACOE experc Dilation Set**
for percutaneous tracheotomy

1. scalpel
2. syringe
3. puncture needle (14 G) with teflon catheter
4. seldinger guide wire made of kink resistant Nitinol with inserter
5. short dilator (14 Ch/Fr)
6. guiding catheter with safety stop
7. TRACOE experc dilator with hydrophilic coating (slides easily after moistening)
8. 4 compresses

♦ in sterile package

The TRACOE experc dilatation set (REF 520) can be used alone or together with the P-tube most appropriate for the patient. You will find an overview on pages 18/19.

Learn more in our product video on our website www.tracoe.com/en/media-library

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**REF 517**

**TRACOE percutan Seldinger Guide Wire**
made of kink resistant Nitinol, with guiding catheter

♦ in sterile package

To be used with all TRACOE twist tubes with minimally traumatic inserter.

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**REF 518**

**TRACOE percutan Seldinger Guide Wire**
made of kink resistant Nitinol

Packaging unit: ♦ 5 units ♦ sterile, individually packaged
The Minimally Traumatic Inserter

At the tip of the twist inserter, there is a folding silicone sleeve that smoothly bridges the gap in diameter between the inserter and the end of the tube (Fig. 1a).

The minimally traumatic inserter is accurately adapted to the tube and its size. That prevents the tube from slipping. Once the tube is in the trachea, the inserter is pulled out of the tube. The silicone sleeve flaps back to facilitate its easy removal (Fig. 2, 2a).

The Benefits

Dilatation is performed using the Ciaglia one-step technique. The minimally traumatic inserter smooths over the gap in diameter between the end of the tube and the inserter. This minimises the risk of injury when the tracheostomy tube is introduced into the trachea. The stop at the proximal end of the tube prevents the inserter from being inserted too far into the tube, which also reduces the risk of injury.

The separately available P-tubes can also be used for reinsertion and/or for tube change – in combination with a Seldinger guide wire, if necessary (see page 15).
The Minimally Traumatic Insertion System

The systems for twist plus and vario consist of two parts: the white guiding catheter with silicone sleeve and the green (twist plus) or orange (vario) inserter. The silicone sleeve smoothly bridges the gap in diameter between the end of the tube and the inserter, thus minimising the risk of injury when the tracheostomy tube is inserted into the trachea (Fig. 3a, 5a).

The twist plus tracheostomy tube is supplied premounted on the minimally traumatic insertion system, with the inner cannula already in place. The insertion system stabilises and facilitates guiding the tube. The inserter fits precisely into the tube and has a stop at the 15mm connector. Once the tube is in the trachea, the coloured inserter, the white guiding catheter with the silicone sleeve, and the Seldinger guide wire are removed together as a single unit. The silicone sleeve now flaps back, allowing the guiding catheter to be removed easily (Fig. 4a, 6a).

Alternatively, the coloured inserter can be pulled out of the tube first, followed by the white guiding catheter and Seldinger guide wire. The white guiding catheter must never be removed first.
experc Sets vario

**REF 420**
TRACOE experc Set vario including **REF 450-P**
spiral-reinforced, with adjustable neck flange, cuff and minimally traumatic insertion system
Details on page 23/26

**REF 422**
TRACOE experc Set vario extract including **REF 470-P**
with adjustable neck flange, cuff, subglottic suction line and minimally traumatic insertion system
Details on page 23/26

**REF 423**
TRACOE experc Set vario including **REF 460-P**
with adjustable neck flange, cuff and minimally traumatic insertion system
Details on page 23/26

experc Sets vario XL

**REF 421**
TRACOE experc Set vario XL including **REF 451-P**
extra-long, spiral-reinforced, with adjustable neck flange, cuff and minimally traumatic insertion system
Details on page 25/26

**REF 425**
TRACOE experc Set vario extract XL including **REF 471-P**
extra-long, with adjustable neck flange, cuff, subglottic suction line and minimally traumatic insertion system
Details on page 25/26

**REF 424**
TRACOE experc Set vario XL including **REF 461-P**
extra-long, with adjustable neck flange, cuff and minimally traumatic insertion system
Details on page 25/26
The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE vario is a soft, flexible (DEHP-free) tube with a patented adjustable neck flange. By means of a practical push-button mechanism, the flange can be moved and adjusted to the individual patient. In this way, the correct length can be achieved. A scale ensures the exact positioning of the neck flange in preparation for a tube change. Positioning the flange by using the grey push-button and locking it by moving the orange lever upwards. Since no screw closure is used, no pressure at all is exerted on the trachea.
Highly Adaptable

The flexible wings on the flange of the TRACOE vario tube can be adjusted independently of one another, providing further opportunities to accommodate the individual patient’s anatomy. The right solution for each patient can be selected from the eight types of TRACOE vario tracheostomy tube available: whether reinforced with a metal spiral, made of transparent plastic (with radio-opaque contrast lines), fenestrated, with or without a cuff.

The extra-long TRACOE vario XL with metal spiral and TRACOE vario extract in transparent plastic equipped with a subglottic suction line, both with cuffs, are special varieties – naturally also available in the standard lengths.
TRACOE vario – Tracheostomy Tubes

**REF 450**

**TRACOE vario Tracheostomy Tube**
spiral-reinforced, with adjustable neck flange, low pressure cuff, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

**REF 460**

**TRACOE vario Tracheostomy Tube**
with adjustable neck flange, low pressure cuff, X-ray contrast line, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

**REF 470**

**TRACOE vario extract Tracheostomy Tube**
with adjustable neck flange, low pressure cuff, subglottic suction line, X-ray contrast line, scale and 15 mm connector

Including:
- 2 connectors for suction pump
- obturator and neck strap
- in sterile package

**REF 455**

**TRACOE vario Tracheostomy Tube**
spiral-reinforced, with adjustable neck flange, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 26.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE vario Tracheostomy Tube
with minimally traumatic insertion system, spiral-reinforced, adjustable neck flange, low pressure cuff, scale and 15 mm connector

Including:
- lubricating gel
- obturator and neck strap
- in sterile package

As percutaneous set in REF 420

REF 450-P

TRACOE vario Tracheostomy Tube
with minimally traumatic insertion system, adjustable neck flange, low pressure cuff, X-ray contrast line, scale and 15 mm connector

Including:
- lubricating gel
- obturator and neck strap
- in sterile package

As percutaneous set in REF 423

REF 460-P

TRACOE vario extract Tracheostomy Tube
with minimally traumatic insertion system, adjustable neck flange, low pressure cuff, subglottic suction line, X-ray contrast line, scale and 15 mm connector

Including:
- lubricating gel
- 2 connectors for suction pump
- obturator and neck strap
- in sterile package

As percutaneous set in REF 422

REF 470-P

TRACOE vario Tracheostomy Tube
with adjustable neck flange, fenestrated, X-ray contrast line, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

REF 464

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE vario XL – Tracheostomy Tubes

**REF 451 XL**

**TRACOE vario XL Tracheostomy Tube**
spiral-reinforced, with adjustable neck flange, low pressure cuff, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

**REF 461 XL**

**TRACOE vario XL Tracheostomy Tube**
with adjustable neck flange, low pressure cuff, X-ray contrast line, scale and 15 mm connector

Including:
- obturator and neck strap
- in sterile package

**REF 471 XL**

**TRACOE vario extract XL Tracheostomy Tube**
with adjustable neck flange, low pressure cuff, subglottic suction line, X-ray contrast line, scale and 15 mm connector

Including:
- 2 connectors for suction pump
- obturator and neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 26.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE vario XL – P-Tracheostomy Tubes

**REF 451-P**

TRACOE vario XL Tracheostomy Tube
with minimally traumatic insertion system, spiral-reinforced, adjustable neck flange, low pressure cuff, scale and 15 mm connector

Including:
- lubricating gel
- obturator and neck strap
- in sterile package

As percutaneous set in REF 421

**REF 461-P**

TRACOE vario XL Tracheostomy Tube
with minimally traumatic insertion system, adjustable neck flange, low pressure cuff, X-ray contrast line, scale and 15 mm connector

Including:
- lubricating gel
- obturator and neck strap
- in sterile package

As percutaneous set in REF 424

**REF 471-P**

TRACOE vario extract XL Tracheostomy Tube
with minimally traumatic insertion system, adjustable neck flange, low pressure cuff, subglottic suction line, X-ray contrast line, scale and 15 mm connector

Including:
- lubricating gel
- 2 connectors for suction pump
- obturator and neck strap
- in sterile package

As percutaneous set in REF 425

The meanings of the symbols used are explained on page II at the beginning of the catalog.
## Technical Data

### TRACOE vario

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**ID:** inside diameter (clear width) at bottom of cannula; **OD:** outside diameter at bottom of cannula; **A:** length; **C:** length; **B:** length; **TL:** length along centre line; **OB:** length along outer bend; **BA:** bending angle; **CD:** cuff diameter

To order, specify **REF + size**, e.g. **REF 450-08**

### TRACOE vario XL

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**TRACOE**

Products purchased may differ slightly in appearance from the illustrations in this catalog.
The Subglottic Suction Line

In all TRACOE tracheostomy tubes equipped with subglottic suction lines, the opening of the line is just above the cuff. Secretions in the subglottic space can therefore be suctioned off at the lowest point of collection. This reduces the risk of bacterially contaminated secretions entering the lower respiratory tract and the risk of developing aspiration pneumonia.

The TRACOE vario opening is designed to minimise mucosal damage from suctioning.

Highly Adaptable

The TRACOE vario tube has a patented adjustable neck flange. By means of a practical push-button mechanism, the flange can be moved along the tracheostomy tube and adjusted to the individual patient. The flange is fixed securely in position by moving the orange locking lever upwards. Since no screw closure is used, no pressure at all is exerted on the trachea.

The flexible wings of the TRACOE vario neck flange can be adjusted independently, providing further opportunities to accommodate the individual patient’s anatomy.

Scope of Supply of TRACOE vario and vario XL Tubes

All TRACOE vario and vario XL tubes are supplied with an obturator, a wide adjustable neck strap, and a product info card with two detachable labels.

Lubricating gel is also supplied with the vario P-tubes.
The TRACOE twist and TRACOE twist plus tracheostomy tubes are used as ventilation and therapy tubes with inner cannulas in hospitals, rehabilitation, and community settings.

A special feature of TRACOE twist tubes is the anatomically shaped neck flange that moves in both the vertical and horizontal axes. Patients can turn their heads freely, without the tracheostomy tube exerting any strong pressure on the trachea. It is easy to attach or exchange the neck strap while the tube is in situ.

Sizing of the two product lines always corresponds to the inside diameter of the inner cannula. For example, when it says 8 mm on the neck flange, the lumen of the inner cannula is 8 mm.
For breathing and ventilation, the lumen should be as large as possible – that is why the internal measurement is given. For the patient, every millimetre counts. If the diameter of the lumen is reduced from 8 to 7 mm, the air supply is 41% less and there is a huge increase in the effort required to breathe. Changing from 8 to 9 mm increases the air supply by 60%, while the effort required to breathe remains the same.*

Fourteen types of DEHP-free tubes in the TRACOE twist and twist plus product lines offer the wide choice needed to select the best tube for each patient. Cuffed tubes, also with subglottic suction lines, are the first choice for use in percutaneous dilatation procedures – see the TRACOE percutan line.

* Hagen-Poiseuille equation on laminar flow
TRACOE twist – Tracheostomy Tubes

**REF 301**

**TRACOE twist Tracheostomy Tube**

with low pressure cuff

Including:
- 2 inner cannulas with 15mm connector
- perforated obturator
- neck strap
- in sterile package

**REF 302**

**TRACOE twist Tracheostomy Tube**

with low pressure cuff and fenestration

Including:
- inner cannula, fenestrated, with 15mm connector
- inner cannula with 15mm connector
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

**REF 303**

**TRACOE twist Tracheostomy Tube**

Including:
- 2 inner cannulas with 15mm connector
- perforated obturator
- neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 40/41. Products purchased may differ slightly in appearance from the illustrations in this catalog.
REF 301-P

TRACOE twist Tracheostomy Tube
with minimally traumatic inserter and low pressure cuff

Including:
- 2 inner cannulas with 15mm connector
- reinsertion tube
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 320

REF 302-P

TRACOE twist Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff and fenestration

Including:
- inner cannula, fenestrated, with 15mm connector
- 2 inner cannulas with 15mm connector
- occlusion cap for fenestrated tubes
- reinsertion tube
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 321

REF 304

TRACOE twist Tracheostomy Tube
with fenestration

Including:
- inner cannula, fenestrated, with 15mm connector
- 2 inner cannulas with 15mm connector
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE twist – Tracheostomy Tubes

**REF 306**

TRACOE *twist* Tracheostomy Tube
with low pressure cuff and subglottic suction line

Including:
- 2 inner cannulas with 15mm connector
- 2 connectors for suction devices
- perforated obturator
- neck strap
- in sterile package

**REF 888-306**

TRACOE *twist* Tracheostomy Tube
with low pressure cuff, subglottic suction line, and fenestration

Including:
- inner cannula, fenestrated, with 15mm connector
- inner cannula with 15mm connector
- 2 connectors for suction devices
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

**REF 305**

TRACOE *twist* Laryngectomy Tube

Including:
- inner cannula, fenestrated, with 15mm connector
- inner cannula with grooved low profile connector
- obturator
- neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 40/41. Products purchased may differ slightly in appearance from the illustrations in this catalog.
REF 306-P

TRACOE twist Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff and subglottic suction line

Including:
- 2 inner cannulas with 15mm connector
- 2 connectors for suction devices
- reinsertion tube
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 322

REF 888-306-P

TRACOE twist Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff, subglottic suction line and fenestration

Including:
- inner cannula, fenestrated, with 15mm connector
- 2 inner cannulas with 15mm connector
- occlusion cap for fenestrated tubes
- reinsertion tube
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 888-322

REF 309

TRACOE twist Tracheostomy Tube
with low pressure cuff and air supply line for speaking

Including:
- inner cannula with 15mm connector
- perforated obturator
- neck strap
- in sterile package

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE twist plus – Tracheostomy Tubes

**REF 311**

**TRACOE twist plus Tracheostomy Tube**
with low pressure cuff

Including:
- 2 inner cannulas with 15mm connector
- perforated obturator
- neck strap
- in sterile package

**REF 312**

**TRACOE twist plus Tracheostomy Tube**
with low pressure cuff and double fenestration at inner and outer bend

Including:
- inner cannula, double fenestrated with 15mm connector
- inner cannula with 15mm connector
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

**REF 313**

**TRACOE twist plus Tracheostomy Tube**

Including:
- 2 inner cannulas with 15mm connector
- perforated obturator
- neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 40/41.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE twist plus Tracheostomy Tube
with minimally traumatic inserter and low pressure cuff

Including:
- 2 inner cannulas with 15mm connector,
  one pre-mounted
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 330

TRACOE twist plus Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff
and double fenestration at inner and outer bend

Including:
- 2 inner cannulas with 15mm connector,
  one pre-mounted
- inner cannula, double fenestrated with 15mm connector
- occlusion cap for fenestrated tubes
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 331

TRACOE twist plus Tracheostomy Tube
with double fenestration at inner and outer bend

Including:
- inner cannula with 15mm connector
- inner cannula, double fenestrated with 15mm connector
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE twist plus Tracheostomy Tubes

**REF 316**

TRACOE twist plus Tracheostomy Tube
with low pressure cuff and subglottic suction line

Including:
- 2 inner cannulas with 15mm connector
- 2 connectors for suction devices
- perforated obturator
- neck strap
- in sterile package

**REF 888-316**

TRACOE twist plus Tracheostomy Tube
with low pressure cuff, subglottic suction line and double fenestration at inner and outer bend

Including:
- inner cannula with 15mm connector
- inner cannula, double fenestrated with 15mm connector
- 2 connectors for suction devices
- occlusion cap for fenestrated tubes
- perforated obturator
- neck strap
- in sterile package

The REF numbers and dimensions of all products are listed in the tables on page 40/41.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE twist plus – P-Tracheostomy Tubes

**REF 316-P**

TRACOE twist plus Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff and subglottic suction line

Including:
- 2 inner cannulas with 15mm connector, one pre-mounted
- 2 connectors for suction devices
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 332

**REF 888-316-P**

TRACOE twist plus Tracheostomy Tube
with minimally traumatic inserter, low pressure cuff, subglottic suction line and double fenestration at inner and outer bend

Including:
- 2 inner cannulas with 15mm connector, one pre-mounted
- inner cannula, double fenestrated with 15mm connector
- 2 connectors for suction devices
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 888-332

The meanings of the symbols used are explained on page II at the beginning of the catalog.
Products purchased may differ slightly in appearance from the illustrations in this catalog.

TRACOE twist – Spare Parts and Accessories

**REF 501**

TRACOE twist Spare Inner Cannulas
with 15 mm connector

Packaging unit:
- 3 units *(in sizes 04 – 10)*
- 10 units under **REF 501-X** *(in sizes 04 – 10)*
- 30 units under **REF 501-XXX** *(in sizes 06 – 09)*
- sterile, individually packaged

**REF 506**

TRACOE twist Spare Inner Cannulas
fenestrated, with 15 mm connector

Packaging unit:
- 3 units *(in sizes 04 – 10)*
- 10 units under **REF 506-X** *(in sizes 04 – 10)*
- sterile, individually packaged

**REF 401**

TRACOE twist Inner Cannulas
fenestrated, with integrated speaking valve

Packaging unit:
- 2 units *(in sizes 04 – 10)*
- sterile, individually packaged

**REF 503**

TRACOE twist Spare Inner Cannulas
short, with 15 mm connector, for REF 305

Packaging unit:
- 3 units *(in sizes 05 – 10)*
- sterile, individually packaged

The REF numbers and dimensions of all products are listed in the tables on page 40/41.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE twist plus – Inner Cannulas

**REF 521**

TRACOE twist plus Spare Inner Cannulas with 15 mm connector

Packaging unit:
- 3 units *(in sizes 07 – 10)*
- 10 units under **REF 521-X** *(in sizes 07 – 10)*
- 30 units under **REF 521-XXX** *(in sizes 07 – 09)*
- sterile, individually packaged

**REF 523**

TRACOE twist plus Spare Inner Cannulas double fenestrated, with 15 mm connector

Packaging unit:
- 3 units *(in sizes 07 – 10)*
- 10 units under **REF 523-X** *(in sizes 07 – 10)*
- sterile, individually packaged

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE twist

REF 301, REF 302, REF 303, REF 304, REF 306, REF 309  
in sizes 04 – 10

REF 888-306  
in sizes 06 – 10

REF 301-P, REF 302-P, REF 306-P, REF 888-306-P  
in sizes 07 – 09

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ID-IC: inside diameter (clear width) at bottom of inner cannula; OD-OC bc: outside diameter at bottom of outer cannula; OD-OC bf: outside diameter of outer cannula behind the flange; TL: along centre line from start of neck flange to bottom of tube; OB: length along outer bend from start of neck flange to bottom of tube; BA: bending angle; CD: Cuff diameter

TRACOE twist Laryngectomy Tube

REF 305

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To order, specify: REF + Size, e.g. REF 306-08
TRACOE twist plus

Scope of Supply of TRACOE twist and twist plus Tubes

All TRACOE twist and twist plus tracheostomy tubes are supplied with a perforated obturator (in sizes 06 – 10), a wide adjustable neck strap, and a product info card with two detachable labels.

Lubricating gel is supplied with the TRACOE twist and twist plus P-tubes.

All TRACOE twist P-tubes come with a reinsertion tube.
**Fenestration**

**TRACOE twist and twist plus**
Fenestrated twist and twist plus tubes have perforations on the outer bend. The twist plus tube has double fenestration with additional phonation holes on the inner bend (tube length is adjusted according to the patient’s increasing body mass index (BMI)).

**TRACOE twist REF 888-306 and twist plus REF 888-316**
Multifunctional tracheostomy tubes with cuff, subglottic suction line, and speaking function. Can be used with closed inner cannula for ventilation or with fenestrated inner cannula and deflated cuff as a therapy tube.

**Features of the Inner and Outer Cannulas**

**Green and White mean non-fenestrated**

- Green lettering on the neck flange indicates a non-fenestrated outer cannula
- Non-fenestrated TRACOE twist inner cannulas are identified by white 15mm connectors
- Non-fenestrated TRACOE twist plus inner cannulas are identified by a white grooved low-profile connector

**Blue means fenestrated**

- Blue lettering on the neck flange indicates a fenestrated outer cannula
- Fenestrated TRACOE twist inner cannulas are identified by blue 15mm connectors
- Fenestrated TRACOE twist plus inner cannulas are identified by a blue grooved low-profile connector

A video with detailed tips for the care of the TRACOE twist and twist plus tubes you can find on our website www.tracoe.com/en/media-library

Products purchased may differ slightly in appearance from the illustrations in this catalog.
Accumulated secretions in the subglottic space can be suctioned off at the lowest point, i.e. just above the cuff. This reduces the risk of bacterially contaminated secretions entering the lower respiratory tract and the risk of developing aspiration pneumonia.

In the TRACOE twist and twist plus tubes, the opening of the subglottic suction line is at the lowest point, just above the cuff. Because the tube wall is not very thick, the line runs on the tube and not within the wall. Funnel and cone connectors are supplied to connect the suction lines.

The TRACOE twist and twist plus multifunctional tubes REF 888-306 and REF 888-316 for ventilation, subglottic suction, and communication offer patients who need a cuffed tube to prevent aspiration the possibility of speaking.

**Subglottic Suction Line**

For the patient, every millimetre counts. If the diameter of the lumen is reduced from 8 to 7 mm, the air supply is 41 % less and there is a huge increase in the effort required to breathe. Changing from 8 to 9 mm increases the air supply by 60 %, while the effort required to breathe remains the same.

Sizing of the TRACOE twist and twist plus lines always corresponds to the inside diameter of the inner cannula. For example, when it says 8 mm on the neck flange, the lumen of the inner cannula is 8 mm. Placing the inner cannula in the outer cannula does not reduce the lumen available to the patient for breathing or ventilation.

**Air Supply for Speaking**

**TRACOE twist REF 309**

This tube allows the patient to speak when ventilated. The air supply line has two additional holes and with the help of the fingertip, the airflow can be manually regulated to control the formation of voices.

**It’s the Inner Values that count!**
The Smaller the Detail, the Greater the Value

The true size can be particularly important in children. Our new TRACOE kids product range consists of the tried and trusted TRACOE mini and the brand-new TRACOE silcosoft. The tracheostomy tubes in both these lines have been developed especially for neonates, infants and older children. We have focussed particularly on the flange design and the use of comfortable materials.

NEW! TRACOE silcosoft: very soft, flexible, spiral-reinforced silicone tubes, with and without cuff. Special features include the optimal shape of the flange and the patented, especially reinforced eyelets.

Our tried and trusted TRACOE mini is a soft, thin-walled but stable PVC tube that does not contain DEHP. The flange has a sloping undersurface to optimise the fit.
**Light and Safe**

The specially designed obturator is extremely practical. The ring-shaped grip ensures that tubes can be inserted safely and easily, despite their small size and different materials. Extensions, neck straps, heat/moisture exchangers, and special compresses are available to fit the TRACOE kids tubes.

**Anatomically Optimised Solutions**

To ensure the best solution for each young patient, TRACOE mini is available in 12 different sizes: 4 for use in neonates/infants and 8 for pediatric use. TRACOE silcosoft is available in 11 different sizes: 4 for use in neonates/infants and 7 for pediatric use.
**Special Features**

TRACOE silcosoft is a very soft, flexible, spiral-reinforced silicone tube. The neck flange has been designed with pediatric anatomy in mind. Patented reinforced eyelets on the flange prevent the material tearing with a hook-and-loop fastener. Length-specific variants can be supplied from stock. For larger order quantities delivery time on request.

**The $H_2O$ Cuff**

When the cuff is deflated, it is close and tight to the tube. It is filled with up to 2 ml of sterile water. The cuff acts as a seal to prevent the aspiration of food and saliva from the pharynx and the unwanted escape of air during ventilation.

**The 'Silicone Advantage'**

The material properties of silicone are particularly beneficial to young patients: well tolerated, free from latex and DEHP, and easy to insert. It is less likely to become encrusted and is easy to clean. TRACOE silcosoft tubes can be re-used up to 7 times.

**Obturator with ring-shaped grip**

The specially designed obturator is extremely practical. The ring-shaped grip ensures that the tube can be inserted safely and easily, despite its small size.

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More information in our product video on our website www.tracoe.com/en/media-library

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Products purchased may differ in appearance from the illustrations in this catalog.
The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE kids – silcosoft® Tracheostomy Tubes

TRACOE silcosoft® Tracheostomy Tube for children, made from silicone

Including:
- ring obturator
- neck strap
- disconnection wedge
- in sterile package

TRACOE silcosoft® PL Tracheostomy Tube for children, proximal longer, made from silicone

Including:
- obturator
- neck strap
- disconnection wedge
- in sterile package

TRACOE silcosoft® Tracheostomy Tube for children, with H₂O cuff, made from silicone

Including:
- ring obturator
- neck strap
- disconnection wedge
- in sterile package

TRACOE silcosoft® PL Tracheostomy Tube for children, with H₂O cuff, proximal longer, made from silicone

Including:
- obturator
- neck strap
- disconnection wedge
- in sterile package

All REF numbers and dimensions are listed on page 50/51.

Products purchased may differ in appearance from the illustrations in this catalog.
TRACOE kids – mini Tracheostomy Tubes

REF 350

TRACOE mini Tracheostomy Tube
for neonates and infants

Including:
- ring obturator
- neck strap
- in sterile package

REF 355

TRACOE mini Tracheostomy Tube
for children

Including:
- ring obturator
- neck strap
- in sterile package

REF 356

TRACOE kids Extension Piece

Including:
- disconnection wedge
- in sterile package

Prevents obstruction of the patient end of the tube. The dead space will be increased by approx. 3.5 – 4 ml (cm³), which corresponds to the normal dead space of 2 – 3 years old children. Fits all mini tubes up to an inner diameter of 6 mm. While using a proximal longer tube for children please be aware of the increased dead space.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
Technical Data and Scope of Supply

TRACOE silcosoft® for Neonates and Infants

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TRACOE silcosoft® for Children

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ID: inside diameter (clear width) of tube; OD: outside diameter of tube; A: length; C: length; B: length; TL: length along centre line from start of neck flange to bottom of tube; OB: length along outer bend from start of neck flange to bottom of tube; BA: bending angle; PL: proximal longer

To order, specify REF + size, e.g. REF 370-2.5

Product variants can be made in order to optimise the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions. The order form is available on our website www.tracoe.com/en/downloads.

Scope of Supply of TRACOE kids Tubes

All TRACOE kids tubes are supplied with an obturator, a soft wide adjustable neck strap (REF 903-G), and a product info card with two detachable labels.

All TRACOE silcosoft tubes are supplied with a disconnection wedge.
### Technical Data and Specialities

**TRACOE mini for Neonates and Infants**

![Diagram of TRACOE mini for Neonates and Infants]

#### REF 350

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**TRACOE mini for Children**

![Diagram of TRACOE mini for Children]

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**TRACOE kids Extension Piece**

![Diagram of TRACOE kids Extension Piece]

#### REF 356

- 15mm connector, female
- reinforced tube
- 15mm connector, male

**TRACOE humid assist kids Heat & Moisture Exchanger, HME**

Heat & Moisture Exchanger, HME with paper filter, for attachment to any pediatric tube with 15mm connector, to be used in children with tidal volume of 7 to 50ml

Details of the product are given in the modular product line on page 85.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
Lightweight, Soft and Flexible

TRACOE comfort tracheostomy tubes are made of clear polymer material (DEHP-free), which makes them both especially soft and very lightweight. They do not have to be removed for X-ray or cobalt therapy. A TRACOE comfort tube weighs only about one-third of a conventional silver tube of the same size. Because they are transparent, it is also very easy to ensure that they are perfectly clean.

Superb Quality

TRACOE comfort: The extremely comfortable long-term tubes have traditionally been hand-crafted for the past six decades. They are characterised by their softness and flexibility and are particularly economical to use thanks to their durability.
As Comfortable as Possible

As the name suggests, TRACOE comfort tubes are designed to be as comfortable as possible for permanent wearers after tracheostomy or laryngectomy. Their discreet appearance is an added benefit. To ensure optimum quality, they are still made by hand – an extra effort that does a world of good to the patient.

Many Models and Sizes

All tube types are available in many different sizes and designs. This variety facilitates the selection of the tube suitable for the respective anatomy of the patient. Also available as TRACOE comfort plus with a different bending angle and double fenstration. The tube length of comfort plus is between standard and extra-long.
Products purchased may differ slightly in appearance from the illustrations in this catalog.

TRACOE comfort – Tracheostomy Tubes

**REF 101**
TRACOE comfort Tracheostomy Tube
Including: • neck strap

**REF 102**
TRACOE comfort Tracheostomy Tube
Including: • inner cannula with low profile
• neck strap

**REF 102-D**
TRACOE comfort Tracheostomy Tube
Including: • 2 inner cannulas with low profile
• neck strap

**REF 106-D**
TRACOE comfort Laryngectomy Tube
Including: • 2 inner cannulas with low profile
• neck strap

For patients whose larynx has been removed.

Compatible heat/moisture exchangers and speaking valves can be found on page 76.
TRACOE *comfort* XL – Tracheostomy Tubes

**REF 201 XL**

*TRACOE comfort* XL Tracheostomy Tube

Including: ▶ neck strap

**REF 202 XL**

*TRACOE comfort* XL Tracheostomy Tube

Including: ▶ inner cannula with low profile ▶ neck strap

For permanent wearers and patients with tracheal stenosis.

**REF 202-D XL**

*TRACOE comfort* XL Tracheostomy Tube

Including: ▶ 2 inner cannulas with low profile ▶ neck strap

For permanent wearers and patients with tracheal stenosis.

The meanings of the symbols used are explained on page II at the beginning of the catalog.

The REF numbers and dimensions of all products are listed in the tables on page 66/67.
**TRACOE comfort Tracheostomy Tube**

fenestrated

Including:  ◆ inner cannula, fenestrated, with slide-on speaking valve type A (silver valve holder)  
◆ inner cannula with low profile  
◆ neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking.

---

**REF 103-O**

**TRACOE comfort Tracheostomy Tube**

fenestrated with oxygen supply port attached to the inner cannula

Including:  ◆ inner cannula, fenestrated, with slide-on speaking valve type A (silver valve holder) and oxygen supply port  
◆ inner cannula with low profile  
◆ neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking. Made upon order.

---

**REF 103-A**

**TRACOE comfort Tracheostomy Tube**

fenestrated

Including:  ◆ inner cannula, fenestrated, with slide-on speaking valve type A (silver valve holder)  
◆ inner cannula with 15mm connector  
◆ inner cannula with low profile  
◆ neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking.
TRACOE comfort XL – Tracheostomy Tubes

The meanings of the symbols used are explained on page II at the beginning of the catalog.

The REF numbers and dimensions of all products are listed in the tables on page 66/67.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE comfort Tracheostomy Tube
fenestrated with oxygen supply port attached to the inner cannula

Including:
- inner cannula, fenestrated, with slide-on speaking valve type A (silver valve holder) and oxygen supply port
- inner cannula with 15mm connector
- inner cannula with low profile
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking. Made upon order.

TRACOE comfort Tracheostomy Tube
fenestrated

Including:
- inner cannula, fenestrated, with swivel speaking valve type B
- inner cannula with low profile
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking.

TRACOE comfort Tracheostomy Tube
fenestrated with oxygen supply port attached to the inner cannula

Including:
- inner cannula, fenestrated, with swivel speaking valve type B and oxygen supply port
- inner cannula with low profile
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking. Made upon order.

Compatible heat/moisture exchangers and speaking valves can be found on page 76.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE comfort XL – Tracheostomy Tubes

The meanings of the symbols used are explained on page II at the beginning of the catalog.

The REF numbers and dimensions of all products are listed in the tables on page 66/67.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE comfort Tracheostomy Tubes

**REF 104-A**

**TRACOE comfort Tracheostomy Tube**
fenestrated

Including:
- inner cannula, fenestrated, with swivel speaking valve type B
- inner cannula with 15 mm connector
- inner cannula with low profile
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking.

**REF 104-A-O**

**TRACOE comfort Tracheostomy Tube**
fenestrated with oxygen supply port attached to the inner cannula

Including:
- inner cannula, fenestrated, with swivel speaking valve type B and oxygen supply port
- inner cannula with 15 mm connector
- inner cannula with low profile
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking. Made upon order.
TRACOE comfort XL – Tracheostomy Tubes

The meanings of the symbols used are explained on page II at the beginning of the catalog.

The REF numbers and dimensions of all products are listed in the tables on page 66/67.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE comfort – Tracheostomy Tubes

**REF 105**

TRACOE comfort Tracheostomy Tube

Including:
- inner cannula with 15mm connector
- neck strap

**REF 105-D**

TRACOE comfort Tracheostomy Tube

Including:
- 2 inner cannulas with 15mm connector
- neck strap

**REF 115**

TRACOE comfort Tracheostomy Tube fenestrated

Including:
- inner cannula, fenestrated, with 15mm connector
- inner cannula with 15mm connector
- neck strap

Compatible heat/moisture exchangers and speaking valves can be found on page 76.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
The meanings of the symbols used are explained on page II at the beginning of the catalog.

The REF numbers and dimensions of all products are listed in the tables on page 66/67.
Compatible heat/moisture exchangers and speaking valves can be found on page 76.
Products purchased may differ slightly in appearance from the illustrations in this catalog.
The meanings of the symbols used are explained on page II at the beginning of the catalog.

**TRACOE comfort plus Tracheostomy Tube**

double fenestrated at inner and outer bend

Including:
- inner cannula, double fenestrated, with 22 mm housing
- inner cannula with 15 mm connector
- neck strap

For tracheostomised patients with fully or partially intact larynx, for speaking.

**TRACOE comfort plus Tracheostomy Tube**

double fenestrated at inner and outer bend

Including:
- inner cannula, double fenestrated, with swivel speaking valve type B
- inner cannula, double fenestrated, with 22 mm housing
- neck strap

The REF numbers and dimensions of all products are listed in the tables on page 66/67.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
### Technical Data

#### TRACOE comfort

![Diagram of TRACOE comfort Laryngectomy Tube]

Size | ID-OC | OD-OC bc | OD-OC bf | ID-IC | TL | OB | BA | θ°
---|---|---|---|---|---|---|---|---
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04 | 4.0 | 5.6 | 7.3 | 3.2 | 50 | 55 | 90°
05 | 5.0 | 6.7 | 8.7 | 4.0 | 52 | 57 | 90°
06 | 6.0 | 7.6 | 10.0 | 4.8 | 54 | 60 | 90°
07 | 7.0 | 8.8 | 10.5 | 5.8 | 57 | 65 | 90°
08 | 8.0 | 10.0 | 11.3 | 6.8 | 61 | 70 | 90°
09 | 9.0 | 11.4 | 12.6 | 7.6 | 65 | 75 | 90°
10 | 10.0 | 12.4 | 13.7 | 8.7 | 74 | 85 | 90°
11 | 11.0 | 13.1 | 15.0 | 9.7 | 76 | 87 | 90°
12 | 12.0 | 14.2 | 16.2 | 10.8 | 78 | 90 | 90°
13 | 13.0 | 15.4 | 17.2 | 11.8 | 87 | 100 | 90°
14 | 14.0 | 16.6 | 18.2 | 12.6 | 91 | 105 | 90°

**ID-OC:** inside diameter (clear width) at bottom of outer cannula; **OD-OC bc:** outside diameter at bottom of outer cannula; **OD-OC bf:** outside diameter of outer cannula behind the flange; **ID-IC:** inside diameter at bottom of inner cannula; **TL:** length along centre line from start of neck flange to bottom of tube; **OB:** length along outer bend (greatest length); **BA:** bending angle

To order, specify **REF + size**, e.g. **REF 103-08**

---

#### TRACOE comfort Laryngectomy Tube

![Diagram of TRACOE comfort Laryngectomy Tube]

Size | ID-OC | OD-OC bc | OD-OC bf | ID-IC | TL | OB | BA | θ°
---|---|---|---|---|---|---|---|---
07 | 7.0 | 8.8 | 10.5 | 5.8 | 47 | 50 | 130°
08 | 8.0 | 10.0 | 11.3 | 6.8 | 50 | 53 | 130°
09 | 9.0 | 11.4 | 12.6 | 7.6 | 52 | 57 | 130°
10 | 10.0 | 12.4 | 13.7 | 8.7 | 55 | 60 | 130°
11 | 11.0 | 13.1 | 15.0 | 9.7 | 58 | 63 | 130°
12 | 12.0 | 14.2 | 16.2 | 10.8 | 60 | 66 | 130°

**ID-OC:** inside diameter (clear width) at bottom of outer cannula; **OD-OC bc:** outside diameter at bottom of outer cannula; **OD-OC bf:** outside diameter of outer cannula behind the flange; **ID-IC:** inside diameter at bottom of inner cannula; **TL:** length along centre line from start of neck flange to bottom of tube; **OB:** length along outer bend (greatest length); **BA:** bending angle

To order, specify **REF + size**, e.g. **REF 103-08**

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*Product variants can be made in order to optimise the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions. The relevant ordering forms are available at [www.tracoe.com/en/downloads](http://www.tracoe.com/en/downloads).*
**Scope of Supply of TRACOE comfort Tubes**

All TRACOE comfort tubes are supplied with a wide adjustable neck strap and a product info card with two detachable labels.
Special Features of the Speaking Valves

- **TRACOE comfort** Speaking Valve, type A
  
  TRACOE comfort tubes with type A speaking valves have a silver valve holder that is attached to the inner cannula with a chain. When necessary, it can be pulled off the inner cannula, allowing free access to the lumen, e.g. for suctioning off tracheal secretions.

- **TRACOE comfort** Speaking Valve, type B
  
  TRACOE comfort tubes with type B speaking valves have a swivelling holder that allows free access to the lumen of the inner cannula, e.g. for suctioning off tracheal secretions. The valve flap is protected from accidental distortion that would affect its function.

Fenestration

**TRACOE comfort**

Standard holes for phonation can be found on the outer bend of all outer cannulas.

**TRACOE comfort plus**

Double fenestration leads to better phonation: comfort plus tubes have two additional phonation holes on the inner bend (tube length is adjusted according to the patient’s increasing body mass index (BMI)). The inner cannulas are correspondingly fenestrated.
Special Features of the 15 mm Connector and 22 mm Housing

- 15 mm connector
  Universal 15 mm connectors allow the use of heat/moisture exchangers and speaking valves.

- 22 mm housing
  Universal 22 mm housing on inner cannulas give a more discreet appearance thanks to accessories with a flat profile, e.g. a flat speaking valve with silicone membrane (REF 650-S).

Care of the Tubes

- leave in contact with cleaning solutions for only short periods (max. 1 minute)
- use clean, warm, potable tap water to rinse the tubes
- moisten the inner cannula with one drop (not more) of paraffin oil directly behind the flange

A video clip with tips on the care of tracheostomy tubes can be found at www.tracoe.com/en/media-library

Accessories and Cleaning Products for TRACOE comfort and comfort plus Tracheostomy Tubes

REF 902

TRACOE care Liquid Paraffin
lets inner cannulas be easily inserted and removed, assures best possible fit and good quality of speech
Details on page 102

REF 931-A/-B

TRACOE tube clean
Cleaning Kit
with concentrated cleaning liquid REF 933
Details on page 101
Soft, Light, Transparent

TRACOE larynx is a product line intended to meet the needs of long-term tracheostomised or laryngectomised patients, in hospitals, rehabilitation, and clinical aftercare.

The Range

TRACOE larynx stoma buttons and short cannulas made of soft flexible silicone have been specially developed for patients who no longer need a standard tracheostomy tube but still require a device to keep the stoma open. They also support speaking valves and/or HMEs.
TRACOE larynx adhesive carrier allow tracheostomised or laryngectomised patients to attach TRACOE humid assist I REF 640-CT heat/moisture exchangers (HMEs) and TRACOE phon assist I or the hands-free TRACOE phon assist II speaking valves.

All products in the TRACOE larynx line are DEHP-free.

Details and REF numbers of TRACOE heat/moisture exchangers and TRACOE speaking valves can be found in the TRACOE modular product line on page 76 onwards.
TRACOE larynx – Silicone Short Tubes & stoma buttons

**TRACOE larynx Silicone Short Tube**
with 22 mm housing

**REF 580**
Length: 36 mm  
Including: neck strap

**REF 582**
Length: 53 mm  
Including: neck strap

Silicone short tubes are ideal for the use in stable tracheostomas to secure the respiratory tract once no tracheostomy tube is needed anymore.

**TRACOE larynx Silicone Short Tube**
with 22 mm housing, fenestrated

**REF 581**
Length: 36 mm  
Including: neck strap

**REF 583**
Length: 53 mm  
Including: neck strap

For tracheostomised patients as well as laryngectomised patients with a voice prosthesis.

**TRACOE larynx stoma button**
made of silicone

**REF 612**
Length: 22 mm  
in sterile package  
Sizes: 06 – 12

**REF 613**
Length: 30 mm  
in sterile package  
Sizes: 06 – 12

Products purchased may differ slightly in appearance from the illustrations in this catalog.
TRACOE grid button
short, made of silicone

Including:
- neck strap
- in sterile package

Sizes:
- 06 – 12

TRACOE grid button with eyes for attaching a neck strap and with a removable grid to prevent inhalation of foreign objects.

TRACOE grid button
standard, made of silicone

Including:
- neck strap
- in sterile package

Sizes:
- 06 – 12

TRACOE grid button with eyes for attaching a neck strap and with a removable grid to prevent inhalation of foreign objects.

TRACOE grid button
long, made of silicone

Including:
- neck strap
- in sterile package

Sizes:
- 06 – 12

TRACOE grid button with eyes for attaching a neck strap and with a removable grid to prevent inhalation of foreign objects.

The REF numbers and dimensions of all products are listed in the tables on page 75.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE larynx – Adhesive Carrier & button plus

Products purchased may differ slightly in appearance from the illustrations in this catalog.

TRACOE larynx – Silikonkurzkanülen & stoma buttons

TRACOE button plus
Silicone decannulation button made of silicone

REF 607-45
Lenght: 45mm
ID: 8mm
OD: 11mm
Including: neck strap
in sterile package

REF 607-70
Lenght: 70mm
ID: 8mm
OD: 11mm
Including: neck strap
in sterile package

For the therapy of tracheostomised patients after long-term ventilation – safe airway after decannulation. The sealing is very airtight and dislocation save. The patient is able to cough up the stimulus secretion very fast. With the adjustable neck flange the TRACOE button plus can be positioned optimal to the soft neck tissue.

Caution, not suitable for:
- laryngectomised patients
- patients with unstable breathing
- patients, who primarily breathe through the tracheostoma

TRACOE Adhesive Carrier Hydrocolloid with 22 mm housing

Packaging unit:
- 20 units
- individually packaged

For affixing onto the stable tracheostoma.
With anallergenic hydrocolloid coating, particulary suitable for patients with sensitive skin.

REF 660
TRACOE larynx Adhesive Carrier Hydrocolloid with 22 mm housing

Packaging unit:
- 20 units
- individually packaged

For affixing onto the stable tracheostoma.
With anallergenic hydrocolloid coating, particulary suitable for patients with sensitive skin.
Technical Data and Scope of Supply

TRACOE larynx Silicone Short Tubes

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REF 580, REF 581, REF 582, REF 583

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TRACOE larynx grid & stoma buttons

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ID: inside diameter; OD: outside diameter of tube; TL: length along centre line; OB: length along outer bend; L: length

To order, specify REF + size, e.g. REF 601-08

Scope of Supply of TRACOE larynx Products

All TRACOE larynx silicone short tubes, grid buttons and button plus products are supplied with a wide adjustable neck strap and a product info card with two detachable labels.
**Modular System**

Depending on the requirements and indications, TRACOE speaking valves and HMEs can be attached to different support systems with 15mm connectors or 22mm housings. This modular system for tracheostomy tubes, TRACOE larynx stoma buttons, short tubes, and adhesive carriers allows personalised solutions for individual patients.

**Speaking Valves**

The TRACOE phon assist I speaking valve is used by tracheostomised patients and, thanks to its infinitely adjustable airway resistance, offers new therapeutic options, e.g. for weaning from ventilation, improving oropharyngeal perception, and voice projection for children using ‘Find the Voice’. Now also available in orange. The bright orange colour is unmistakable and immediately distinguishes the speaking valve from other attachments.
The TRACOE phon assist II speaking valve offers laryngectomised patients with a voice prosthesis and tracheostomised patients the possibility of hands-free speech. Both valves can be individually adjusted by the patient.

Heat/Moisture Exchangers

TRACOE humid assist I to IV and the TRACOE humid assist kids are a variety heat/moisture exchangers (HMEs) that act like an artificial nose to filter, warm and moisten inhaled air.
Accessories for 15mm Connector

Speaking Valves

- **REF 650-T**
  - TRACOE phon assist I

- **REF 650-TO**
  - TRACOE phon assist I with oxygen supply port

- **REF 655-T**
  - TRACOE phon assist II

- **REF 650-TO-C**
  - TRACOE phon assist I in a bright colour and with oxygen supply port

Occlusion Cap

- **REF 516**
  - TRACOE modular Occlusion Cap

Heat/Moisture Exchangers, HME

- **REF 640-CT**
  - TRACOE humid assist I

- **REF 641**
  - TRACOE humid assist III

- **REF 642**
  - TRACOE humid assist IV

- **REF 643**
  - TRACOE humid assist kids

22mm Housing Adapter

- **REF 622**
  - TRACOE modular
  - 22mm Housing Adapter

Products listed here are intended exclusively for use with fenestrated tracheostomy tubes with a 15mm connector. If a cuffed tube is being used, the cuff must be deflated before a speaking valve or occlusion cap is attached.

Products purchased may differ slightly in appearance from the illustrations in this catalog.
Speaking Valves

- REF 650-S
  TRACOE phon assist I

- REF 650-SO
  TRACOE phon assist I
  with oxygen supply port

- REF 655-S
  TRACOE phon assist II

Stopper

- REF 621
  TRACOE modular stopper
  Caution: Not for use with adhesive carrier REF 660!

Heat/Moisture Exchanger, HME

- REF 640-S
  TRACOE humid assist I

Heat/Moisture Exchanger, HME for Speaking Valve REF 655-T and REF 655-S

- REF 645
  TRACOE humid assist II

This heat/moisture exchanger is intended exclusively for use with the hands-free speaking valves REF 655-T and REF 655-S.

All the speaking valves and occlusion caps illustrated here can be fitted to fenestrated short silicone tubes, tracheostomy tubes, stoma and grid buttons, and the adhesive carrier with 22 mm housing.

The meanings of the symbols used are explained on page II at the beginning of the catalog.
**TRACOE modular – Accessories for 15 mm Connector**

**REF 650-T**

**TRACOE phon assist I Speaking Valve**
with air supply from the side, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector

Packaging unit:  
- 1 unit  
- in sterile package

Caution: Not for use by laryngectomised patients!

**REF 650-TO**

**TRACOE phon assist I Speaking Valve**
with oxygen supply port and air supply from the side, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector

Packaging unit:  
- 1 unit  
- 5 units under **REF 650-TO-5**  
- sterile, individually packaged

Including:  
- adapter for oxygen supply

Caution: Not for use by laryngectomised patients!

**REF 650-TO-C**

**TRACOE phon assist I Speaking Valve**
in a bright colour, with oxygen supply port and air supply from the side, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector

Packaging unit:  
- 1 unit  
- 5 units under **REF 650-TO-C-5**  
- sterile, individually packaged

Including:  
- adapter for oxygen supply

Caution: Not for use by laryngectomised patients!

More information in our product video on our website
www.tracoe.com/en/media-library
The meanings of the symbols used are explained on page II at the beginning of the catalog.

**TRACOE modular – Accessories for 22 mm Housing**

**TRACOE phon assist I Speaking Valve**
with air supply from the side, infinitely adjustable, with flat base for attachment to any fenestrated silicone short tube, tracheostomy tube, stoma & grid buttons and adhesive carrier with 22 mm housings

Packaging unit: ◆ 1 unit
◆ in sterile package

Caution: Not for use by laryngectomised patients!

**REF 650-S**

**TRACOE phon assist I Speaking Valve**
with oxygen supply port and with air supply from the side, infinitely adjustable, with flat base for attachment to any fenestrated silicone short tube, tracheostomy tube, stoma & grid buttons and adhesive carrier with 22 mm housings

Packaging unit: ◆ 1 unit
◆ in sterile package

Including: ◆ adapter for oxygen supply

Caution: Not for use by laryngectomised patients!

**REF 650-SO**

**Speaking and Therapy Valve**

With the TRACOE phon assist I the airway resistance can be adjusted individually thanks to the infinitely adjustable air supply from the side. Exhalation is partly through the side openings and partly through the natural airway. The more the side holes are closed, the more the patient breathes through the natural airway. All phon assist I speaking valves REF 650-TO, REF 650-TO-C and REF 650-SO with oxygen supply lines allow the additional administration of oxygen when required.

**Examples of Use**

◆ to reduce air-trapping during weaning from the ventilator:
  by individually adjusting the side openings, expiration can be made easier for the patient

◆ in early rehabilitation, to improve oropharyngeal perception,
  i.e. the patient’s mouth and throat become more sensitive and the swallowing reflex is stimulated

◆ for speaking with a tracheostomy tube in situ (fenestrated and with deflated cuff)

◆ ‘Find the Voice’ – simplified speech training through individual adjustment of the side openings
  (particularly useful for children)
TRACOE modular – Accessories for 15mm Connector

REF 655-T

TRACOE phon assist II Hands-free Speaking Valve
infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector

Packaging unit: ✦ 1 unit
Including: ✦ 5 units TRACOE humid assist II (REF 645)
✦ sterile, individually packaged

Caution: After laryngectomy only to be used in conjunction with a voice prosthesis!

REF 645

TRACOE humid assist II Heat & Moisture Exchanger
with foam filter for attaching to the TRACOE phon assist II hands-free speaking valves REF 655-T and REF 655-S only

Packaging unit: ✦ 50 units
✦ sterile, individually packaged

REF 516

TRACOE modular Occlusion Cap
for attachment to any fenestrated tube with 15 mm connector

Packaging unit: ✦ 5 units
✦ sterile, individually packaged

Caution: Not for use by laryngectomised patients!
The meanings of the symbols used are explained on page II at the beginning of the catalog.

**TRACOE modular – Accessories for 22 mm Housing**

**REF 655-S**

**TRACOE phon assist II Hands-free Speaking Valve**
infinitely adjustable, with flat base for attachment to any fenestrated silicone short tube, tracheostomy tube, stoma & grid buttons and adhesive carrier with 22 mm housings

Packaging unit: 1 unit
Including:
- 5 units TRACOE humid assist II (REF 645)
  - sterile, individually packaged

Caution: After laryngectomy only to be used in conjunction with a voice prosthesis!

**Examples of Use for REF 645**

REF 645 + REF 655-T

REF 645 + REF 655-S

**REF 621**

**TRACOE modular Stopper**
to temporarily seal fenestrated silicone short tube, tracheostomy tube, stoma & grid buttons with 22 mm housings, in patients with unobstructed upper airways and unrestricted breathing

Packaging unit: 5 units
- sterile, individually packaged

Caution: Not for use by laryngectomised patients!
TRACOE modular – Heat & Moisture Exchanger, HME & Housing Adapter

**REF 640-CT**

TRACOE humid assist I Heat & Moisture Exchanger
with foam filter for attachment to any tube with 15 mm connector

Packaging unit: ♦ 50 units
♦ sterile, individually packaged

**REF 641**

TRACOE humid assist III Heat & Moisture Exchanger
with paper filter, integrated oxygen supply port, turnable through 360°, for attachment to any tube with 15 mm connector

Packaging unit: ♦ 50 units
♦ sterile, individually packaged

**REF 642**

TRACOE humid assist IV Heat & Moisture Exchanger
with foam filter, integrated oxygen supply port and pressure control valve for expectoration of larger quantities of secretion, for attachment to any tube with 15 mm connector

Packaging unit: ♦ 30 units
♦ individually packaged

Products purchased may differ slightly in appearance from the illustrations in this catalog.
The meanings of the symbols used are explained on page II at the beginning of the catalog.

**REF 643**

TRACOE humid assist *kids* Heat & Moisture Exchanger

with paper filter, for attachment to any pediatric tube with 15 mm connector, to be used in children with tidal volume of 7 to 50 ml

Packaging unit:  
- 50 units  
- sterile, individually packaged

**REF 640-S**

TRACOE humid assist *I* Heat & Moisture Exchanger

with foam filter and with flat base for attachment to any fenestrated silicone short tubes, tracheostomy tubes and stoma & grid buttons with 22 mm housings

Packaging unit:  
- 50 units  
- sterile, individually packaged

For patients with or without voice prosthesis.

**REF 622**

TRACOE modular 22 mm Housing Adapter

for tubes with 15 mm connector

Packaging unit:  
- 1 unit
Cuff Pressure Management

TRACOE technic refers to medical devices that allow the pressure in the cuffs of tracheostomy and endotracheal tubes to be set or independently regulated with great precision.

Why is it so important that the cuff is always properly inflated? For one reason, to ensure adequate ventilation at all times.

For another, to prevent silent aspiration, which may sometimes lead to nosocomial ventilator-associated pneumonia (VAP). It also prevents damage to the trachea, for example mucosal necrosis, destruction of cartilage and tracheomalacia.
Two Systems, One Goal

TRACOE technic includes two ways of regularly checking the cuff pressure. First, the TRACOE cuff pressure monitor (cpm and cpms) handheld manometers, featuring large easy-to-read dials for quick straightforward measurements. The usual pressure range is marked in green.

Or secondly, the TRACOE smart Cuff Manager, which offers a new benchmark in patient safety by continuous regulation of the pressure in the cuff. It is simple to use and the visual confirmation of optimal cuff pressure assists nursing staff in both hospitals and community settings.
TRACOE technic – Cuff Pressure Management

TRACOE smart Cuff Manager

Packaging unit: 
- 5 units
- sterile, individually packaged

The TRACOE smart Cuff Manager monitors and regulates the internal pressure of High Volume Low Pressure cuffs of tracheostomy tubes as well as endotracheal tubes.

The pressure is maintained between 20 cmH₂O and 30 cmH₂O. Visual verification of the cuff pressure is indicated by the inflation level of the blue buffer balloon of the TRACOE smart, which should be inflated between 2/3 and 3/4. Additional checks of the cuff pressure may be performed with a cuff pressure manometer (e.g. TRACOE cpm REF 720). Is the cuff pressure too low, the TRACOE smart Cuff Manager refills the cuff quickly to its appropriate pressure.

Short high pressure peaks e.g. due to coughing will be tolerated by the integrated damping function which inhibits that air escapes instantly from the cuff. The solid shell of the TRACOE smart protects the highly elastic blue balloon from unwanted compression.

TRACOE smart is a latex- and DEHP-free, single patient product with a usage time of 29 days after opening.

More information in our product video on our website www.tracoe.com/en/media-library
TRACOE technic – Connection Tubes

REF 702

TRACOE technic Connection Tube
1 m length with check valve

Length: 1 m
Packaging unit: 10 units
sterile, individually packaged

Tubes for connecting the TRACOE cpm REF 720, TRACOE cpms REF 721 or TRACOE smart Cuff Manager REF 730-5 to a tracheostomy or endotracheal tube with Luer lock connectors.

The subglottic secretion suction with the aim to reduce the VAP rate of patients with an expected ventilation period of more than 72 hours was classified as category IA of the recommendations by the German Commission for Hospital Hygiene and Infectious Disease Prevention (guidelines for hospital hygiene and infection prevention issued by the Robert Koch Institute, KRINKO)*. The recommendation specifies that the cuff pressure level should be set between 20 and 30 cmH₂O and checked at regular intervals. The recommendation is part of category IB. When these two actions are taken in combination, they can help to reduce the incidence of pneumonia.

* Prevention of nosocominal ventilator-associated pneumonia (KRINKO), German Federal Health Gazette 2013 – 56:1578-1590
TRACOE technic – Cuff Pressure Monitors

REF 720

TRACOE cuff pressure monitor (cpm)

Packaging unit: 1 unit
Including: 1 connection tube REF 702

The TRACOE cuff pressure monitor (cpm) is used to fill and monitor the pressure of high-volume-low-pressure cuffs of tracheostomy and endotracheal tubes.

Its outstanding features and benefits:
- easy and safe in- and deflation
- precise, reproducible pressure indication
- extra-large, easy-to-read scale from 0 – 100 cmH₂O
- widely spaced scale markings with colour coded pressure ranges
- stable metal hook for attachment

REF 721

TRACOE cuff pressure monitor sensitive (cpms)

Packaging unit: 1 unit
Including: 1 connection tube REF 702

The TRACOE cuff pressure monitor sensitive (cpms) is used to fill and monitor the pressure of high-volume-low-pressure cuffs of tracheostomy and endotracheal tubes.

Its outstanding features and benefits:
- easy and safe in- and deflation
- precise, reproducible pressure indication
- extra-large, easy-to-read scale from 0 – 100 cmH₂O
- widely spaced scale markings with colour coded pressure ranges
- stable/solid and flexible fastening hook
- vacuum valve for deflation
REF 725

TRACOE high pressure inflation device

Packaging unit:  1 unit

The TRACOE high pressure inflation device is recommended for filling and emptying the balloon and for monitoring the pressure in the balloon during dilatation procedures.

Components:
- ratchet lever to control the piston
- pressure gauge with scale marked in intervals of 1 bar
- connection tube with rotatable adapter

The disposable plastic instrument is delivered sterile and must be used only with liquid inflation media. It is intended for single use in one patient only.

Warning: Not suitable for use with high-volume-low-pressure cuffs.
Superlative Quality

The name of TRACOE medical has always stood for uncompromising quality, in-house Research and Development, and superior handcraftsmanship. Year by year, we are improving our skills and have developed a meticulous eye for detail, bringing added value for both doctors and patients.

With the same stringent approach, we are opening up our product portfolio and, after careful examination of external know-how, we can now offer you even more products than in the field of tracheostomy and laryngectomy. You will find selected medical devices that meet our firm concepts of quality and user-friendliness listed in the TRACOE select product range.
Trust is the Key

We will be including products that have proved themselves in routine clinical practice, as we want you and your patients to have nothing but the best – just as you are accustomed to when using our products. We have already found two such products in the TRACOE aeris® balloon dilatation catheter and the TRACOE seldinger pleural drainage set.

Open to New Ideas and Products

An open exchange with doctors and hospitals has made us aware of your incentives and requirements and, with select, we are responding to both your individual and collective needs. We will continue to assess your suggestions and requests.

TRACOE select: always one step ahead!
The TRACOE aeris balloon dilatation catheter is intended for dilating strictures in the airways. Minimally invasive balloon dilatation is an effective atraumatic method of treatment for stenoses.

The set’s features include:
- innovative non-slip design (two hubs distally and approximately at the ends of the balloon for fixation)
- absolutely precise, secure placement
- controlled radial dilatation
- maintenance of constant pressure against the stenosis

Colour coding of the connections correspond to markers on the TRACOE high pressure inflation device REF 725 to ensure the correct pressure settings.

Dilatation can be repeated several times in succession during the procedure. The balloon is filled using the TRACOE high pressure inflation device REF 725, which is safe and easy to use.

More information in our product video on our website www.tracoe.com/en/media-library

**Technical Data**

<table>
<thead>
<tr>
<th>Size</th>
<th>Balloon Size (diameter x length) in mm</th>
<th>max. Inflation Pressure atm</th>
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<td>10</td>
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<tr>
<td>18</td>
<td>18 x 40</td>
<td>10</td>
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</table>

To order, specify: **REF + Size**, e.g. **REF 820-08**
TRACOE select – Seldinger Pleural Drainage Set

REF 850-5

TRACOE Pleural Drainage Set using the Seldinger Technique

The seldinger pleural catheter is used for draining pleural effusion and to relieve a pneumothorax.

Packaging unit: 5 units
Including:
1. drainage catheter with inner stylet (12 Fr), radiopaque, kink-resistant due to plastic spiral reinforcement, MR conditional, luer lock connector
2. scalpel (11), single use
3. syringe (10ml)
4. tuohy puncture needle (1.2 x 1.5 x 90mm, Gauge 17)
5. coated seldinger guide wire with Nitinol core
6. dilator with depth limiter (12 Fr)
7. fixation plaster
8. 3-way-valve
9. adapter from luer lock to funnel connector
10. secretion bag (1.5l) with luer lock connection

The set’s features include:
• kink-resistant, thin drainage catheter (12 Fr) with embedded plastic spiral reinforcement
• extra-soft catheter tip with three staggered openings
• tuohy puncture needle
• seldinger guide wire, kink-resistant due to Nitinol core
• convenient thumb inserter
• maximum in situ usage time of 28 days
• radiopaque and MR conditional

More information in our product video on our website www.tracoe.com/en/media-library
Tracheostoma Management – as Comfortable as Possible

Tracheostomised and laryngectomised patients require aids that make living with a tube as comfortable as possible. A wide range of accessories is available for the best possible care of tracheostomy tubes and stomas.

Many items in the TRACOE care product line, such as neck straps and compresses, help in daily living with a TRACOE tracheostomy tube.
Special Protection

Tracheal compresses can be used, for example, to provide padding between the tube and the stoma; they also absorb secretions coming from the stoma. Other products, such as special cleaning sets and brushes, help to maintain the extremely important high standards of hygiene. A well-cared tracheostoma ensures that the patient feels comfortable and reduces the complications.

Bibs, scarves, and roll-necks can help to replace the missing protective and filtration functions of the nose. They protect the airway from dryness, cold and dust but also act as coverings to improve the patient’s appearance.
TRACOE care – Neck Straps

**REF 903-A**

**TRACOE care Neck Strap**
white, elastic, consists of one part, individually adjustable, with hook

Packaging unit: 1 unit
Dimensions:  
  - max. length approx. 44 cm
  - width of neck strap approx. 1.5 cm

**REF 903-B**

**TRACOE care Neck Strap**
padded, adjustable in length, latex-free, with hook-and-loop fastener

Packaging unit: 1 unit
Dimensions:  
  - max. length approx. 45 cm
  - width of neck strap approx. 3.0 cm

**REF 903-D**

**TRACOE care Neck Strap**
white, wide, padded, elastic, consists of two parts, individually adjustable, with hook-and-loop fastener

Packaging unit: 1 unit
Dimensions:  
  - max. length approx. 49 cm
  - width of neck strap approx. 2.5 cm
TRACOE care Neck Strap
white, wide, consists of one part, with hook-and-loop fastener

Packaging unit:  
- 1 unit  
- 10 units under REF 903-E-P

Dimensions:  
- max. length approx. 42 cm  
- width of neck strap approx. 3.5 cm

REF 903-F
TRACOE care Neck Strap
white, wide, consists of two parts, individually adjustable, with hook-and-loop fastener

Packaging unit:  
- 1 unit  
- 10 units under REF 903-F-P

Dimensions:  
- max. length approx. 43 cm  
- width of neck strap approx. 2.6 cm

REF 903-G
TRACOE care Neck Strap
white, padded, consists of two parts, individually adjustable, with hook-and-loop fastener, for neonates, infants and children

Packaging unit:  
- 1 unit  
- max. length approx. 29 cm  
- width of neck strap approx. 2.6 cm

TRACOE care Neck Straps

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<th>Width (approx.) cm</th>
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<td>1 unit</td>
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The meanings of the symbols used are explained on page II at the beginning of the catalog.
TRACOE care – Cleaning Products

TRACOE tube clean Cleaning Kit
with cleaning powder REF 932

REF 930-A  • with 50 small cleaning swabs (REF 935)

REF 930-B  • with 50 large cleaning swabs (REF 936)

Including:  • tube clean cleaning tub with mesh basket (REF 934)
            • 1 cleaning brush (REF 938-A)

For cleaning and maintaining tracheostomy tubes, stoma and grid buttons and the corresponding spare parts and accessories.

REF 932

TRACOE tube clean Cleaning Powder

Contents:  • 400 g

Cleaning powder for cleaning and maintaining tracheostomy tubes, stoma and grid buttons and the corresponding spare parts and accessories.

approx. 80 applications, approx. 5g/500ml water

REF 935

TRACOE tube clean Cleaning Swabs small

Packaging unit:  • 50 units

Bendable plastic swabs with polyurethane sponge tip for cleaning tracheostomy tubes with an inner diameter of 3 – 7 mm. For single use.

REF 934

TRACOE tube clean Cleaning Tub with mesh basket

Volume:  • 1000 ml

For use with the solution, to clean tracheostomy tubes, stoma and grid buttons and the corresponding spare parts and accessories.
TRACOE tube clean Cleaning Kit
with concentrated cleaning liquid REF 933

- REF 931-A
  - with 50 small cleaning swabs (REF 935)
- REF 931-B
  - with 50 large cleaning swabs (REF 936)

Including:
- tube clean cleaning tub (REF 934)
- 1 cleaning brush (REF 938-A)

For quick cleaning and maintaining tracheostomy tubes, stoma and grid buttons and the corresponding spare parts and accessories.

TRACOE tube clean Concentrated Cleaning Liquid

Contents:
- 250 ml

Liquid cleaning concentrate for cleaning and maintaining tracheostomy tubes, stoma and grid buttons and the corresponding spare parts and accessories. The containing enzymes penetrate and dissolve all organic residues. Rapidly acting, approx. 100 applications, approx. 2.5 ml/500 ml water

TRACOE tube clean Cleaning Swabs large

Packaging unit:
- 50 units

Bendable plastic swabs with polyurethane sponge tip for cleaning tracheostomy tubes with an inner diameter of 8 – 14 mm. For single use.

More information about our cleaning products in our product video on our website www.tracoe.com/en/media-library
**TRACOE care Cleaning Brushes** with microfibre tip

- **Packaging unit:** 10 units

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>Bristle-diameter</th>
<th>for tube Inside Diameter</th>
<th>approx. Total Length</th>
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<td>938-B</td>
<td>9</td>
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<tr>
<td>938-C</td>
<td>11</td>
<td>9/10</td>
<td>210</td>
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</table>

Angled brush with extra-soft nylon bristles for removing incrustations. To reduce scratching, the brushes have a microfibre tip.

**TRACOE care Paraffin**

- **Contents:** 25ml

Lubricates and protects TRACOE comfort tubes. Lets inner cannulas be easily inserted and removed, assures best possible fit and good quality of speech.

**TRACOE care Lubricating Gel**

- **Packaging unit:** 30 Sachets à 2.7 g
  - sterile

Before placing tracheostomy tubes and/or endotracheal tubes slightly coat them with the lubricating gel. The perfectly dosed gel is colour- and odorless, greaseless, water-soluble and does not stick.

**TRACOE care Skin Cloth**

- **Packaging unit:** 50 units

For daily cleansing and care around the stoma: pH-balanced skincare products with a pH of 5.0 – 5.5.
**REF 940**

**TRACOE care Cleaning Brushes flexible**

Packaging unit: ◆ 10 units

<table>
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<td>5/6 mm 315 mm</td>
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<td>940-B</td>
<td>9 mm</td>
<td>7/8 mm 335 mm</td>
</tr>
<tr>
<td>940-C</td>
<td>11 mm</td>
<td>9/10 mm 360 mm</td>
</tr>
<tr>
<td>940-D</td>
<td>13 mm</td>
<td>11/12 mm 360 mm</td>
</tr>
</tbody>
</table>

Extra-long, specially made for cleaning flexible tracheostomy tubes. The wire used has a rounded tip and the bristles are made of soft nylon.

**REF 915**

**TRACOE care Shower Guard**

Silicone shower protector, contains no DEHP or latex. Soft, adjustable, and can be adapted to different-sized necks. Caution: May not be used for full-body bathing or swimming!

**TRACOE care Tracheostoma Protection**

**REF 908**

Dimensions: ◆ approx. 6 x 6.5 cm
Packaging unit: ◆ 10 units

**REF 909**

Dimensions: ◆ approx. 7.2 x 7.2 cm
Packaging unit: ◆ 10 units

Prevents foreign objects from entering the tracheostoma. With adhesive strip, for single use, for adults and children.
**TRACOE care Tracheal Compresses**

**REF 905**

**TRACOE care Tracheal Compresses**
aluminium coated, with zigzag slit

Dimensions:  • approx. 9 x 9.8 cm
Packaging unit:  • 10 units

Tracheal compresses, aluminium coated, avoid the compress sticking to the wound or the skin. They absorb secretions between the stoma and the tube.

**TRACOE care Tracheal Compresses** two-ply

**REF 907-A** without slit

**REF 907-B** with zigzag slit

Dimensions:  • approx. 9 x 9.8 cm
Packaging unit:  • 10 units

Two-ply tracheal compresses absorb a large amount of secretions from the tracheostoma quickly to avoid skin irritations. At the same time they are used as a pad between the tracheostoma and the tracheostomy tube.

**TRACOE care Tracheal Compresses**

**REF 910-A** without slit

**REF 910-B** with zigzag slit

Dimensions:  • approx. 9 x 9.8 cm
Packaging unit:  • 10 units

These tracheal compresses absorb secretions from the tracheostoma to avoid skin irritations.
The meanings of the symbols used are explained on page II at the beginning of the catalog.

**REF 957**

**TRACOE care Coated Tracheal Compresses**
two-ply, with zigzag slit

Dimensions:        ◆ approx. 9 x 10 cm
Packaging unit:   ◆ 10 units

Two-ply tracheal compresses absorb a large amount of secretions from the tracheostoma quickly to avoid skin irritations. The absorbent coating further avoids the compress sticking to the wound or skin. At the same time they are used as a pad between the tracheostoma and the tracheostomy tube.

**REF 960**

**TRACOE care Coated Tracheal Compresses**
with zigzag slit

Dimensions:        ◆ approx. 8 x 10 cm
Packaging unit:   ◆ 10 units

To absorb secretions from the tracheostoma to avoid skin irritations. The coating further avoids the absorbant compress sticking to the wound or the skin.

**REF 961**

**TRACOE care Tracheal Compresses**
with zigzag slit, for neonates, infants and children

Dimensions:        ◆ approx. 6.5 x 6.3 cm
Packaging unit:   ◆ 10 units

To absorb secretions from the tracheostoma. At the same time they are used as a pad and a protection for the sensitive skin around the tracheostoma. The compresses are ideally adapted to the anatomy of neonates and children.
TRACOE care – Tracheal Compresses

REF 969

TRACOE care softpad Tracheostomy Stoma Pads oval

Dimensions:
- approx. 5.8 cm x 3.6 cm

Packaging unit:
- 20 units
- sterile, individually packaged

Oval tracheostomy stoma pads made of open-pored, highly absorbent polyurethane foam. Avoids decubitus, compensates unevenness due to scars, seals air leaks (function of speech).

REF 958

TRACOE purofoam Tracheostomy Dressings
with zigzag slit

large

Dimensions:
- approx. 9 x 10 x 0.5 cm

Packaging unit:
- 10 units
- sterile, individually packaged

For tracheostomy tube sizes 06 – 12.

REF 959

small

Dimensions:
- approx. 6.5 x 6.5 x 0.5 cm

Packaging unit:
- 10 units
- sterile, individually packaged

For tracheostomy tube sizes 03 – 05.

Features of TRACOE purofoam Tracheostomy Dressing REF 958 and REF 959:

The TRACOE purofoam tracheostomy dressings are made of highly absorbent open pore polyurethane foam (a). The foam has a non-sticking layer (b) on the side facing the tracheostoma which allows quick absorption of liquids into the foam’s core. A net-like film stabilises the purofoam dressings and thus reduces the deformation with strong secretion after the moisture absorption.

The opposite side is covered with a skin coloured, vapour permeable coating which will prevent leakage of secretions and bacteria through the front of the dressing (c).

Due to the circular opening and the zigzag slit the dressing can be easily replaced with a new one whilst wearing the tracheostomy tube. As the dressing does not stick to the skin, it can be removed and replaced without causing trauma or pain.

The TRACOE purofoam tracheostomy dressing can be used to dress a newly established or an existing, irritated tracheostoma, as well as healed but weeping tracheostomases and any other kind of artificial orifice. This dressing meets modern standards of moist wound treatment.
TRACOE care Protective Bibs white

| REF 919-A | 3-ply |
| REF 919-B | 6-ply |
| REF 919-C | 12-ply |

The protective bibs filter and warm the respiratory air. At the same time they protect clothes from possible secretions. Made of polyester, with continuously adjustable hook-and-loop fastener.

TRACOE care Protective Scarves
in different colours: gray plaid, beige plaid, dark green, dark blue, burgundy

| REF 921-A |  | REF 921-D |
| REF 921-B |  | REF 921-E |
| REF 921-C |  |  |

Made of 100% viscose with integrated polyester layer. The TRACOE protective scarves are worn around the neck like an average scarf and are secured with an continuously adjustable hook-and-loop fastener.

TRACOE care Protective Roll-Necks
in different colours: white, gray, beige, dark green, dark blue, burgundy, black

| REF 923-A |  | REF 923-E |
| REF 923-B |  | REF 923-F |
| REF 923-C |  | REF 923-G |
| REF 923-D |  |  |

TRACOE protective roll-necks are made of 100% cotton with an integrated polyester layer. They are worn underneath the shirt.
Contact the TRACOE Product Specialist for your Country!

- Eastern Europe, France, USA, Canada
  Mobile: +49 162 271 7004

- Scandinavia, United Kingdom, South Africa, Ireland
  Mobile: +49 151 5500 4391

- Australia, New Zealand, Asia, Japan, The Middle East
  Mobile: +49 175 904 1644

- Italy, Spain, Portugal, Latin America, Northern Africa
  Mobile: +49 160 843 7917

Any questions about orders or delivery? Please contact our customer service team at:

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Fax: +49 6136 9169-289
order@tracoe.com

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bestellung@tracoe.com
Visit our Website!

To obtain information easily and quickly about TRACOE products, new additions or general information, visit our website: www.tracoe.com/en

Our media library contains useful videos about the use and cleaning of certain products: www.tracoe.com/en/media-library

You can also find us on Facebook and YouTube.

Product Training

We will be happy to support you with seminars and workshops on special topics. Our website has details of contact persons in the hospital and community segments:
www.tracoe.com/en/contact/product-training

Delivery

All TRACOE products are shipped directly ex stock. Non-sterile product variants are generally shipped within 14, sterile ones within 28 days. Please note: Additional freight charges apply in cases of express deliveries and deliveries to addresses which differ from the address on the invoice.

Returns

Returns of used products can be accepted only if accompanied by a completed decontamination certificate and a claim form. You can obtain the necessary certificate and form either directly from TRACOE medical or via their website: www.tracoe.com/en/downloads
Tips for Everyday Use of TRACOE Tracheostomy Tubes

Cleaning and Maintenance
The easiest way to clean the tubes is to use the TRACOE tube clean cleaning kits (REF 930-A/-B or REF 931-A/B), developed especially for this purpose. Never use a strong household cleaning product, a denture cleanser, or strong alcohol to clean the tubes. Soften any solid incrustations and remove them using e.g. TRACOE tube clean cleaning swabs (REF 935 and REF 936). After cleaning, rinse the cannulas thoroughly with water in drinking water quality. Allow the inner and outer cannulas to air-dry.

Disinfection
If necessary, clean the tubes and then soak them in a disinfectant named by TRACOE medical, available on www.tracoe.com/en/downloads (observe manufacturer’s instructions). Afterwards rinse the tubes thoroughly in running water in drinking water quality or with distilled water.

Hygiene
When the tracheostoma is stable, the tubes can be cleaned and maintained during replacement. Tubes should not be removed from new tracheostomies without the help of a guide technique. These procedures should be performed only under medical supervision or on a doctor’s instructions. Please note that the tube must be taken out of the tracheostoma for cleaning. Care of the stoma depends on mucous accumulation, scab formation, and skin condition, but it should be cleaned at least twice a day. Use the TRACOE care protective skin cloth (REF 970) to clean the stoma. Do only use fluff free material. Replace the compresses and neck straps regularly. Select the widest, softest neck strap possible to prevent irritation.

The skin should be clean and dry (neither desiccated nor waterlogged). If the area around the tracheostoma is chafed, the skin can be treated with appropriate care products according to doctor’s orders. When the irritation disappears, treat the area with a skin dressing that is not excessively viscous. A tracheostoma being treated with radiation is often highly sensitive and should be cared for as instructed by your physician or healthcare personnel.

Protective Accessories
To prevent particles of dust and dirt or other objects from entering the trachea through the stoma, special protective articles are needed such as cloths, bibs, roll-necks, filters, etc. (see product lines TRACOE modular and TRACOE care).

Suctioning Frequency
In the same patient the necessity to suction can vary from just a few times each day to up to a number of times an hour. It is important to use a high-quality suction device with suitable performance.

Moistening
To prevent the formation of scab, the use of an “artificial nose” (e.g. TRACOE humid assist I, REF 640-CT) to keep the airways moist is recommended.

Materials
TRACOE tracheostomy tubes are made from materials that have worldwide approval for medical use. They do not contain any latex or any softeners such as DEHP. Products must be disposed of in accordance with national regulations for waste materials.
**Product Info Card**

Most TRACOE products receive a product info card that contains important information for reordering and documentation. Two detachable labels on the front and rear side make paperwork like patient records easier. If the patient is discharged or transferred to a rehabilitation clinic, the product info card informs the medical staff taking over treatment of the product in question.

To meet the market demands of both today and tomorrow, TRACOE medical uses the globally recognised GS1 labelling standard (Global Standards One), which is also reflected in the content of the product info card.

**News Service**

In addition to our marketing material, TRACOE NEWSFLASH brings you the latest in-depth information on, for example, new products, changes, or particular aspects of the TRACOE medical product range, clearly summarised in just a few pages.

We will be happy to send you the TRACOE news by email, free and without obligation, as soon as we have anything of interest to report.

You can find the TRACOE NEWSFLASH and the order form on our website: www.tracoe.com/en/downloads
TRACOE medical distributes its high quality products (most of them are ‘Made in Germany’) in more than 85 countries. Our worldwide success is also due to our sister company KAPITEX in the UK and our daughter company MC Europe B.V. in the Netherlands, as well as a network of international distributors.

The TRACOE international sales team looks after its partners throughout the world. Competent advice and help are always at your service.

All official TRACOE distributors can be found on our website: www.tracoe.com/en/contact/sales