



# Full Line Catalogue



Tracheostomy Products



Laryngectomy Products



Cuff Pressure Management




Accessories



Information



# TRACOE®



### **Certified Quality**

*CE Certificate:  
TRACOE products fulfill the basic stipulations of the EC Directive on Medical products 93/42/EEC (Annex 1). This is regularly renewed on the basis of annual audits.*

*QM Certificate:  
Quality management system conforming to DIN EN ISO 13485:2012/AC 2012. All of TRACOE medical's staff are integrated in this quality system.*

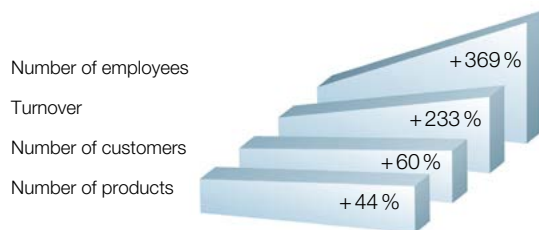
*TRACOE products meet the requirements of the most demanding applications and comply with all relevant national and international guidelines and standards. They are registered and approved in many countries world-wide, including the United States (US1CFR820-FDA) and Canada (CanMDR).*

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# COMPETENCE IN TRACHEOSTOMY

## *Specialisation as the Key to Success*

TRACOE has been specialising in tracheostomy and laryngectomy since its founding over 55 years ago. During this time highly qualified expertise was developed, which is now reflected in continual product innovations, optimal production quality, a diverse range of products and sustainable customer services. High-end quality across the board. Today we enjoy an excellent reputation as a competent and reliable partner in our specialist field among doctors and patients both in hospitals and in the home-care sector. The corporate decision to concentrate on tracheostomy and laryngectomy is now bearing fruit in the shape of the dynamic, healthy growth of TRACOE medical GmbH.



Growth within the period of 2003 to 2013

## *TRACOE smart – Latest Example of Innovation*



The unique TRACOE smart cuff manager continuously regulates the optimal cuff pressure of tracheostomy tubes and endotracheal tubes. In doing so, it not only increases patient safety, but also simplifies the daily routine for the personnel – saving them work and reducing costs. TRACOE smart is a contemporary example of how medical-technical innovations at TRACOE are developed and realised in close cooperation with users in hospitals. Products like TRACOE smart are one of the main reasons that we were voted one of the TOP 100 most innovative medium-sized enterprises in Germany once again in 2013.

Extensive information on TRACOE smart can be found as of page 66.

## *Sustainable Quality Standards*

In order for us to be able to guarantee the necessary sustainable quality standards for our sophisticated TRACOE products, we develop and produce most of them at our own premises. Many of the products are manufactured in complex procedures in our production department – the prerequisite for optimal production and finishing quality. For this reason, we are completely committed to our site in Germany. Since 2013, all our processes, from development to delivery, take place under one roof at our expanded company premises in Nieder-Olm near Mainz.

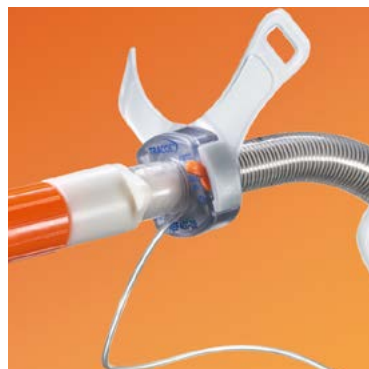
## *Dynamic Perspectives*

Stephan Köhler, in the third generation managing partner, is closely affiliated with TRACOE medical. The TRACOE-Philosophy was shaped by him and, together with his personnel, further dynamic is added to it: with trendsetting product innovations, additional specialised and competent employees and continually improved customer service.



*Stephan Köhler,  
Managing Partner*





## ***Nine Families of Products***

*Nine families of tracheostomy tubes and related products such as percutaneous dilation tracheostomy sets, precision instruments and accessories.*

.....



# THE TRACOE PROGRAMME

*From Hospitals to the Care of Permanent Wearers*

● **TRACOE percutan**

expirc Sets for percutaneous dilation tracheostomy

Page 2

● **TRACOE twist**

Tracheostomy tubes made of polyurethane; for use in hospitals and during rehabilitation, especially to regain the ability to communicate

Page 20

● **TRACOE vario**

Tracheostomy tubes with variably adjustable neck flange – for use in hospitals.

Page 32



● **TRACOE mini**

Tracheostomy tubes designed to meet the special requirements of neonates and children.

Page 38

● **TRACOE comfort**

Tracheostomy tubes made of medical grade, clear polymer material – e.g. speaking tubes for long-term use in therapy, during rehabilitation and for permanent wearers.

Page 42

● **TRACOE modular**

Speaking valves as well as heat/moisture exchangers – for attachment to tracheostomy tubes, stoma buttons, short tubes and adhesive carriers.

Page 56

● **TRACOE technic**

Precision medical products for the cuff pressure management.

Page 64

● **TRACOE larynx**

stoma buttons, silicone short tubes, adhesive carriers and button plus.

Page 68

● **TRACOE care**

For ongoing care as well as product maintenance and cleaning.

Page 74

● **Informations for Patients and Specialised Distributors**

> Useful information about TRACOE tubes and daily care of them. Page 86

> Information for hospitals and distributors. Page 88

> Contact information, how to place orders, sales support, etc. Page 89



## *Intensive Care*

Complete sets for percutaneous dilation tracheostomy.  
Feature: The atraumatic inserter and the atraumatic insertion system – a soft silicone sleeve smoothes the gap between inserter and tube.



# TRACOE®

## *percutan*

### ***A Proven Technique***

Percutaneous dilation tracheostomy has established itself as a standard procedure in intensive medicine. The Ciaglia technique is the one most widely used. The TRACOE expirc system is based on this proven method. The sets are tailored to the use of unfenestrated and fenestrated tubes as well as tubes with subglottic suction line of the product groups TRACOE *twist*, incl. TRACOE *twist plus*, and TRACOE *vario* (not fenestrated).

### ***The Feature***

How to slide the tube over the insertion instrument into the tracheostoma is a challenge in percutaneous dilation tracheostomy. The TRACOE expirc sets deliver the solution in form of the patented atraumatic inserter and the atraumatic insertion system. A soft silicone sleeve at the tip of the insertion instruments smoothly bridges the gap in diameter between the inserter and the tube. This lets the tube be inserted safely and easily.

### ***Module System***

By now there are 14 different TRACOE tracheostomy tubes with atraumatic insertion system of the product groups TRACOE *twist* incl. *twist plus* and *vario*. 6 are with subglottic suction line. 4 of the TRACOE *twist plus* tubes are available in size 10 as well. Therefore the TRACOE expirc Sets can be combined with the tracheostomy tube most suitable for the patient.





REF 320

REF 321

REF 322

REF 888-322

NEW!

## TRACOE experc Set *twist*

### REF 320

Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist* tracheostomy tube with low pressure cuff and atraumatic inserter (REF 301-P)

### REF 321

Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist* tracheostomy tube, fenestrated, with low pressure cuff and atraumatic inserter (REF 302-P)

### REF 322

Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist* tracheostomy tube with low pressure cuff, subglottic suction line and atraumatic inserter (REF 306-P)

### REF 888-322

Set in sterile packages

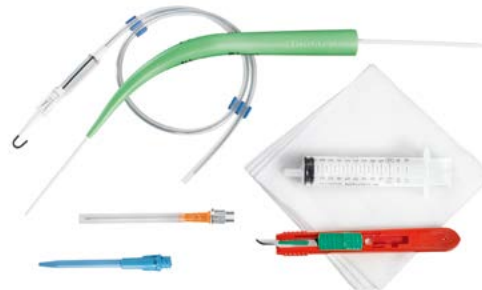
- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist* tracheostomy, fenestrated, with low pressure cuff, subglottic suction line and atraumatic inserter (REF 888-306-P)



TRACOE *twist* tubes REF 301-P, REF 302-P, REF 306-P and REF 888-306-P as well as TRACOE experc Dilation Set (REF 520) are also available separately.

### Package Contents per Set:

#### **TRACOE experc Dilation Set for Percutaneous Tracheostomy, in sterile Package: REF 520**



Scalpel, Syringe, Puncture needle (14 G) with Teflon catheter, Seldinger guide wire made of kink resistant NiTiNoI with inserter, Short dilator 14 CH/FR, Guiding catheter with safety stop, TRACOE experc dilator with hydrophilic coating (slides easily after moistening), 4 compresses

#### **TRACOE *twist* Tracheostomy Tube with Low Pressure Cuff and Atraumatic Inserter, in sterile Package:**

- |                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| <b>REF 301-P</b>               | (see Page 6),                                                 |
| <u>or</u> <b>REF 302-P</b>     | fenestrated, (see Page 6),                                    |
| <u>or</u> <b>REF 306-P</b>     | <u>with subglottic suction line</u>                           |
|                                | (see Page 7)                                                  |
| <u>or</u> <b>REF 888-306-P</b> | fenestrated, <u>with subglottic suction line</u> (see Page 7) |



## The Feature of the TRACOE experc Set *twist* is the Atraumatic Insertion System of the Tubes.

Its tip has a folding silicone sleeve that smoothly bridges over the gap in diameter between the inserter and the end of the tube (Fig. 1).

The inserter also excels with a precise fit into the tube and a stop at the 15mm connector. Once the tube is in the trachea, the inserter is pulled out of the tube. In doing so the silicone sleeve flaps back to facilitate its easy removal (Fig. 2).

### The Benefits:

- ◆ Dilation is performed using the Ciaglia one-step technique.
- ◆ The atraumatic inserter smooths over the gap in diameter between the end of the tube and the inserter. This minimises the risk of injury when inserting the tracheostomy tube into the trachea.
- ◆ The stop at the 15mm connector prevents the inserter from being inserted too far into the tube, which additionally reduces the risk of injury.
- ◆ The separately available tubes with insertion system can also be used for reinsertion into a percutaneously created tracheostoma and/or change tubes; if necessary in combination with the Seldinger guide wire (see page 19).

Fig. 1



Fig. 2



Ordering Information: REF 320, REF 321, REF 322 and REF 888-322	Size	REF-No.	Units/package
<b>REF 320, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist</i> tracheostomy tube, with low pressure cuff and atraumatic inserter (REF 301-P)	07	REF 320-07	1
	08	REF 320-08	1
	09	REF 320-09	1
<b>REF 321, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist</i> tracheostomy tube, <u>fenestrated</u> , with low pressure cuff and atraumatic inserter (REF 302-P)	07	REF 321-07	1
	08	REF 321-08	1
	09	REF 321-09	1
<b>REF 322, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist</i> tracheostomy tube, <u>with subglottic suction line</u> , low pressure cuff and atraumatic inserter (REF 306-P)	07	REF 322-07	1
	08	REF 322-08	1
	09	REF 322-09	1
<b>REF 888-322, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist</i> tracheostomy tube, <u>fenestrated</u> , <u>with subglottic suction line</u> , low pressure cuff and atraumatic inserter (REF 888-306-P)	07	REF 888-322-07	1
	08	REF 888-322-08	1
	09	REF 888-322-09	1



**REF 301-P**

**TRACOE twist Tracheostomy Tube,  
with Low Pressure Cuff and Atraumatic Inserter**

**REF 301-P** *In sterile package*

- ◆ Outer cannula with cuff
- ◆ 2 inner cannulas with 15 mm connector
- ◆ Atraumatic inserter
- ◆ Reinsertion tube
- ◆ Sterile lubricating gel
- ◆ Perforated Obturator and wide neck strap (shown below)



**REF 302-P**

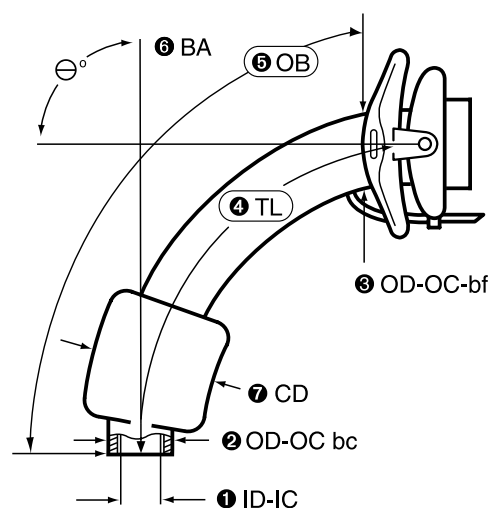
**TRACOE twist Tracheostomy Tube,  
Fenestrated, with Low Pressure Cuff  
and Atraumatic Inserter**

**REF 302-P** *In sterile package*

- ◆ Outer cannula, fenestrated, with cuff
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, fenestrated, with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ Atraumatic inserter
- ◆ Reinsertion tube
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap (shown below)

**i** **Accessory for TRACOE twist Tubes:**  
◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)

**i** **Each TRACOE twist tube is supplied with a** perforated obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).







REF 306-P

**TRACOE twist Tracheostomy Tube,  
with Low Pressure Cuff, Subglottic Suction Line  
and Atraumatic Inserter**

**REF 306-P**

*In sterile package*

- ◆ Outer cannula with cuff and subglottic suction line
- ◆ 2 inner cannulas with 15mm connector
- ◆ 2 connectors for suction devices
- ◆ Atraumatic inserter
- ◆ Reinsertion tube
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap  
(shown on page 6)



REF 888-306-P

**Product Variant:  
TRACOE twist Tracheostomy Tube,  
Fenestrated, with Low Pressure Cuff,  
Subglottic Suction Line and Atraumatic Inserter**

**REF 888-306-P**

*In sterile package*

- ◆ Outer cannula, fenestrated, with cuff and subglottic suction line
- ◆ Inner cannula with 15mm connector
- ◆ Inner cannula, fenestrated, with 15mm connector
- ◆ Occlusion cap for 15mm connector
- ◆ 2 connectors for suction devices
- ◆ Atraumatic inserter
- ◆ Reinsertion tube
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap  
(shown on page 6)

**Reference Numbers and Measurements: REF 301-P, REF 302-P, REF 306-P and REF 888-306-P**

Size	❶ ID-IC (mm)	❷ OD-OC bc (mm)	❸ OD-OC bf (mm)	Lengths (mm)		❹ BA (°)	❺ CD (mm)
				❹ TL	❺ OB		
07	7.0	10.4	12.0	74	80.5	95	26
08	8.0	11.4	12.7	76	83.0	90	28
09	9.0	12.5	14.2	78	88.5	90	30

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

► To order, specify: REF + size (e.g. REF 301-07-P).



# TRACOE expirc Set *twist plus*

up to Size 10



REF 330

REF 331

REF 332

REF 888-332

NEW!

## TRACOE expirc Set *twist plus*



Also available in size 10!

### REF 330

Set in sterile packages

- ◆ 1 TRACOE expirc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist plus* tracheostomy tube with low pressure cuff and atraumatic insertion system (REF 311-P)

### REF 331

Set in sterile packages

- ◆ 1 TRACOE expirc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist plus* tracheostomy tube, double fenestrated, with low pressure cuff and atraumatic insertion system (REF 312-P)

### REF 332

Set in sterile packages

- ◆ 1 TRACOE expirc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist plus* tracheostomy tube, with low pressure cuff, with subglottic suction line and atraumatic insertion system (REF 316-P)

### REF 888-332

Set in sterile packages

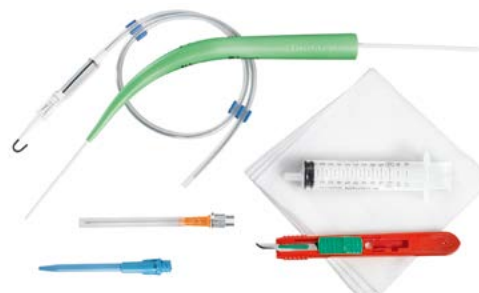
- ◆ 1 TRACOE expirc Dilation Set (REF 520)
- ◆ 1 TRACOE *twist plus* tracheostomy tube, double fenestrated, with low pressure cuff, with subglottic suction line and atraumatic insertion system (REF 888-316-P)



TRACOE *twist plus* tubes REF 311-P, REF 312-P, REF 316-P and REF 888-316-P as well as TRACOE expirc Dilation Set (REF 520) are also available separately.

### Package Contents per Set:

#### TRACOE expirc Dilation Set for Percutaneous Tracheostomy, in sterile Package: REF 520



Scalpel, Syringe, Puncture needle (14 G) with Teflon catheter, Seldinger guide wire made of kink resistant NiTiNol with inserter, Short dilator 14 CH/FR, Guiding catheter with safety stop, TRACOE expirc dilator with hydrophilic coating (slides easily after moistening), 4 compresses

#### TRACOE *twist plus* Tracheostomy Tube with Low Pressure Cuff and Atraumatic Insertor, in sterile Package:

- |    |                      |                                          |
|----|----------------------|------------------------------------------|
|    | <b>REF 311-P</b>     | (see Page 10),                           |
| or | <b>REF 312-P</b>     | <u>double fenestrated</u> (see Page 10), |
| or | <b>REF 316-P</b>     | with <u>subglottic suction line</u>      |
|    |                      | (see Page 11)                            |
| or | <b>REF 888-316-P</b> | <u>double fenestrated</u> , with         |
|    |                      | <u>subglottic suction line</u>           |
|    |                      | (see Page 11)                            |



## The Feature of the TRACOE experc Sets *twist plus* is the Atraumatic Insertion System of the Tubes.

The system consists of two parts: the white guiding catheter with silicone sleeve and the green inserter in the inner cannula. The silicone sleeve smoothly bridges over the gap in diameter between the end of the tube and the inserter thus minimising the risk of injury when inserting the tracheostomy tube into the trachea (see Fig. 1).

The TRACOE *twist plus* tracheostomy tubes are delivered pre-mounted on the atraumatic insertion system, the inner cannula is already placed in the tube. The insertion system stabilises and assists guiding the tube; it excels with a precise fit into the tube and a stop at the 15 mm connector.

Once the tube is in the trachea the green inserter and the white guiding catheter with silicone sleeve are grabbed as a unit and removed together. By doing so the silicone sleeve flaps back and the guiding catheter can be removed easily (see Fig. 2). The Seldinger guide wire can be removed either prior or together with the guiding catheter. Alternatively the green inserter can be removed first, followed by the white guiding catheter and the Seldinger guide wire. Under no circumstances the white guiding catheter must be removed first.

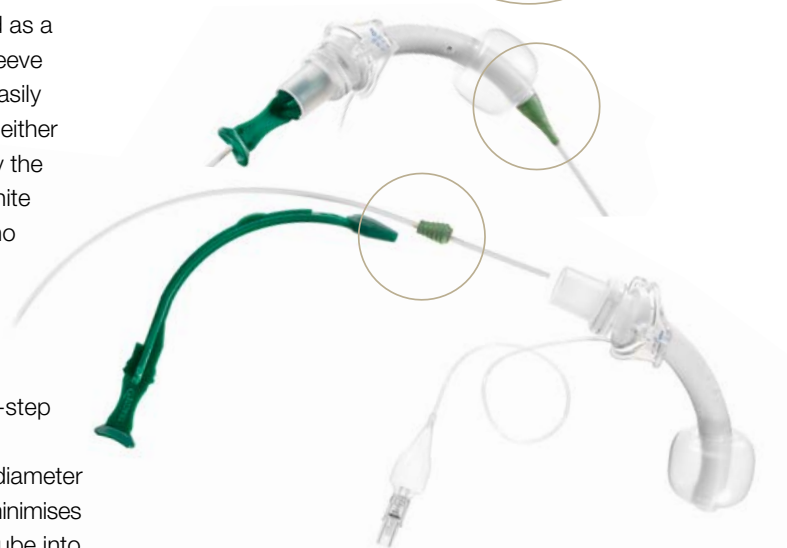
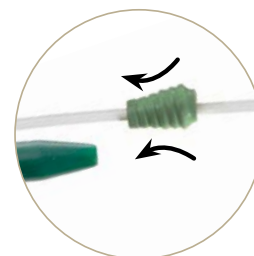
### The Benefits:

- ◆ Dilation is performed using the proven Ciaglia one-step technique.
- ◆ The atraumatic inserter smoothes over the gap in diameter between the end of the tube and the inserter. This minimises the risk of injury when inserting the tracheostomy tube into the trachea.
- ◆ The stop at the 15 mm connector prevents the inserter from being inserted too far into the tube, which additionally reduces the risk of injury.

Fig. 1



Fig. 2



- ◆ The separately available tubes with inserting system can also be used for reinsertion into a percutaneously created tracheostoma and/or change tubes; if necessary in combination with the Seldinger guide wire (see page 19).

Ordering Information: REF 330, REF 331, REF 332 and REF 888-332	Size	REF-No.	Units/package
<b>REF 330, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist plus</i> tracheostomy tube, with low pressure cuff and atraumatic insertion system (REF 311-P)	07	REF 330-07	1
	08	REF 330-08	1
	09	REF 330-09	1
	10	REF 330-10	1
<b>REF 331, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist plus</i> tracheostomy tube, <u>double fenestrated</u> , with low pressure cuff and atraumatic insertion system (REF 312-P)	07	REF 331-07	1
	08	REF 331-08	1
	09	REF 331-09	1
	10	REF 331-10	1
<b>REF 332, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist plus</i> tracheostomy tube, with <u>subglottic suction line</u> , low pressure cuff and atraumatic insertion system (REF 316-P)	07	REF 332-07	1
	08	REF 332-08	1
	09	REF 332-09	1
	10	REF 332-10	1
<b>REF 888-332, consisting of:</b> 1 TRACOE experc Dilation Set (REF 520) and 1 TRACOE <i>twist plus</i> tracheostomy tube, <u>double fenestrated</u> , with <u>subglottic suction line</u> , low pressure cuff and atraumatic insertion system (REF 888-316-P)	07	REF 888-332-07	1
	08	REF 888-332-08	1
	09	REF 888-332-09	1
	10	REF 888-332-10	1





**REF 311-P**

**TRACOE *twist plus* Tracheostomy Tube,  
with Low Pressure Cuff and Atraumatic Insertion  
System**

**REF 311-P** *In sterile package*

- ◆ Outer cannula with cuff
- ◆ 2 inner cannulas with 15 mm connector
- ◆ Atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Perforated Obturator and wide neck strap (shown below)



**REF 312-P**

**TRACOE *twist plus* Tracheostomy Tube,  
Double Fenestrated, with Low Pressure Cuff  
and Atraumatic Insertion System**

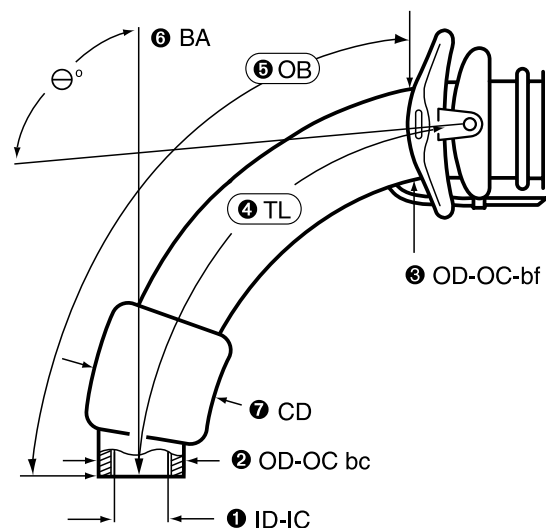
**REF 312-P** *In sterile package*

- ◆ Outer cannula, double fenestrated, with cuff
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, double fenestrated with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ Atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap (shown below)

**i** Features of TRACOE *twist plus* tubes are shown on page 28.

**i** TRACOE *twist plus* tracheostomy tubes are supplied with 2 inner cannulas. One of it is inserted in the outer cannula already.

**i** Each TRACOE *twist plus* tube is supplied with a perforated obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).





REF 316-P



REF 888-316-P



Detail of the additional fenestration at the inner bend

**TRACOE *twist plus* Tracheostomy Tube, with Low Pressure Cuff, Subglottic Suction Line and Atraumatic Insertion System**

**REF 316-P**

*In sterile package*

- ◆ Outer cannula with cuff and subglottic suction line
- ◆ 2 inner cannulas with 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap (shown on page 10)



**Accessory for TRACOE *twist plus* P-Tubes:**

- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)

**Product Variant :**

**TRACOE *twist plus* Tracheostomy Tube, Double Fenestrated, with Low Pressure Cuff, Subglottic Suction Line and Atraumatic Insertion System**

**REF 888-316-P**

*In sterile package*

- ◆ Outer cannula, double fenestrated, with cuff and subglottic suction line
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, double fenestrated, with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Perforated obturator and wide neck strap (shown on page 10)

**Reference Numbers and Measurements: REF 311-P, REF 312-P, REF 316-P and REF 888-316-P**

Size	① ID-IC (mm)	② OD-OC bc (mm)	③ OD-OC bf (mm)	Lengths (mm)		⑥ BA (°)	⑦ CD (mm)
				④ TL	⑤ OB		
07	7.0	9.8	10.1	85	91	100	26
08	8.0	10.8	11.1	88	95	100	28
09	9.0	11.8	12.1	90	99	100	30
10	10.0	12.8	13.1	92	102	100	32

① ID-IC: inside diameter (clear width) at bottom of inner cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ Length TL: along centre line from start of neck flange to bottom of tube; ⑤ Length OB: length along outer bend from start of neck flange to bottom of tube; ⑥ BA: bending angle; ⑦ CD: cuff diameter

► To order, specify: REF + size (e.g. REF 311-07-P)





REF 420

REF 421

REF 422

REF 423

REF 424

REF 425

## TRACOE experc Set vario

### REF 420 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario tracheostomy tube, spiral-reinforced, with adjustable neck flange, low pressure cuff and atraumatic insertion system (REF 450-P)

### REF 421 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario **XL** tracheostomy tube, spiral-reinforced, with adjustable neck flange, low pressure cuff and atraumatic insertion system (REF 451-P)

### REF 422 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario extract tracheostomy tube with adjustable neck flange, low pressure cuff, subglottic suction line and atraumatic insertion system (REF 470-P)

### REF 423 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario tracheostomy tube with adjustable neck flange, low pressure cuff and atraumatic insertion system (REF 460-P)

### REF 424 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario **XL** tracheostomy tube with adjustable neck flange, low pressure cuff and atraumatic insertion system (REF 461-P)

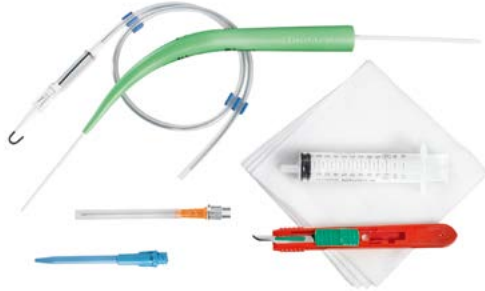
### REF 425 Set in sterile packages

- ◆ 1 TRACOE experc Dilation Set (REF 520)
- ◆ 1 TRACOE vario extract **XL** tracheostomy tube with adjustable neck flange, low pressure cuff, subglottic suction line and atraumatic insertion system (REF 471-P)



The TRACOE vario tubes have an adjustable neck flange with locking lever and pliable wings on the flange that can be adjusted independently of one another



**Package Contents per Set:****TRACOE expirc Dilation Set for Percutaneous Tracheostomy, in sterile Package:  
REF 520**

Scalpel, Syringe, Puncture needle (14 G) with Teflon catheter, Seldinger guide wire made of kink resistant NiTiNol with inserter, Short dilator 14 CH/FR, Guiding catheter with safety stop, TRACOE expirc dilator with hydrophilic coating (slides easily after moistening), 4 compresses

**TRACOE vario Tracheostomy Tube with Adjustable Neck Flange, Low Pressure Cuff and Atraumatic Insertion System, in sterile Package:**

<b>REF 450-P</b>	spiral-reinforced (see Page 15),
<u>or</u> <b>REF 451-P</b>	<u>extra-long</u> , spiral-reinforced (see Page 15),
<u>or</u> <b>REF 460-P</b>	not spiral-reinforced (see Page 16),
<u>or</u> <b>REF 461-P</b>	<u>extra-long</u> , not spiral-reinforced (see Page 16),
<u>or</u> <b>REF 470-P</b>	not spiral-reinforced, with <u>subglottic suction line</u> (see Page 17),
<u>or</u> <b>REF 471-P</b>	<u>extra-long</u> , not spiral-reinforced, with <u>subglottic suction line</u> (see Page 17)



TRACOE vario tubes REF 450-P, REF 451-P, REF 460-P, REF 461-P, REF 470-P and REF 471-P as well as TRACOE expirc Dilation Set (REF 520) are also available separately.

**Ordering Information:**

REF 420, REF 421, REF 422, REF 423, REF 424 and REF 425

Size REF-No Units/package

**REF 420, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario tracheostomy tube with adjustable neck flange, spiral-reinforced, with low pressure cuff and atraumatic insertion system (**REF 450-P**)

07	<b>REF 420-07</b>	1
08	<b>REF 420-08</b>	1
09	<b>REF 420-09</b>	1

**REF 421, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario XL tracheostomy tube with adjustable neck flange, spiral-reinforced, with low pressure cuff and atraumatic insertion system (**REF 451-P**)

07	<b>REF 421-07</b>	1
08	<b>REF 421-08</b>	1
09	<b>REF 421-09</b>	1

**REF 422, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario extract tracheostomy tube with adjustable neck flange, low pressure cuff, subglottic suction line and atraumatic insertion system (**REF 470-P**)

08	<b>REF 422-08</b>	1
09	<b>REF 422-09</b>	1

**REF 423, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario tracheostomy tube with adjustable neck flange, low pressure cuff and atraumatic insertion system (**REF 460-P**)

07	<b>REF 423-07</b>	1
08	<b>REF 423-08</b>	1
09	<b>REF 423-09</b>	1

**REF 424, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario XL tracheostomy tube with adjustable neck flange, low pressure cuff and atraumatic insertion system (**REF 461-P**)

07	<b>REF 424-07</b>	1
08	<b>REF 424-08</b>	1
09	<b>REF 424-09</b>	1

**REF 425, consisting of:** 1 TRACOE expirc Dilation Set (**REF 520**) and 1 TRACOE vario extract XL tracheostomy tube with adjustable neck flange, low pressure cuff, subglottic suction line and atraumatic insertion system (**REF 471-P**)

08	<b>REF 425-08</b>	1
09	<b>REF 425-09</b>	1



### The Feature of the TRACOE experec Set vario is the Atraumatic Insertion System of the Tubes.

The system consists of two parts: the guiding catheter with silicone sleeve and the inserter for stabilisation and guidance of the tube.

The silicone sleeve smoothly bridges over the gap in diameter between the end of the tube and the inserter thus minimising the risk of injury when inserting the tracheostomy tube into the trachea (see Fig. 1).

The insertion system excels with a precise fit into the tube and a stop at the 15mm connector. Once the tube is in the trachea first the inserter is removed and only then the guiding catheter with silicone sleeve. By doing so the silicone sleeve flaps back and the guiding catheter can be removed easily (see Fig. 2). The Seldinger guide wire can be removed either prior or together with the guiding catheter.

Under no circumstances the guiding catheter must be removed first.

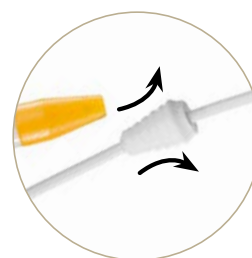
### The Benefits:

- ◆ Dilation is performed using the proven Ciaglia one-step-technique.
- ◆ The atraumatic insertion system smoothes over the gap in diameter between the end of the tube and the inserter. This minimises the risk of injury when inserting the tracheostomy tube into the trachea.
- ◆ The stop at the 15mm connector prevents the inserter from being inserted too far into the tube, which additionally reduces the risk of injury.
- ◆ The separately available tubes with insertion system can also be used for reinsertion into a percutaneously created tracheostoma and/or change tubes; if necessary in combination with the Seldinger guide wire (see page 19).

Fig. 1



Fig. 2





REF 450-P

**TRACOE vario Tracheostomy Tube**  
**Spiral-Reinforced, with Adjustable Neck Flange,**  
**Low Pressure Cuff and Atraumatic Insertion System**

**REF 450-P***In sterile package*

- ◆ Cannula with 15 mm connector, spiral-reinforced, with cuff, scale and atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown below)



REF 451-P

**TRACOE vario XL Tracheostomy Tube,**  
**Extra-Long, Spiral-Reinforced, with Adjustable Neck**  
**Flange, Low Pressure Cuff and Atraumatic Insertion**  
**System**

**REF 451-P***In sterile package*

- ◆ Cannula, extra-long, with 15 mm connector, spiral-reinforced, with cuff, scale and atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown below)



**Accessory for TRACOE vario P-Tubes:**

- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)



**Each TRACOE vario tube is supplied with an** obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).





**REF 460-P**

**TRACOE vario Tracheostomy Tube**  
with Adjustable Neck Flange, Low Pressure Cuff  
and Atraumatic Insertion System

**REF 460-P** In sterile package

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line, scale and atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown on page 15)

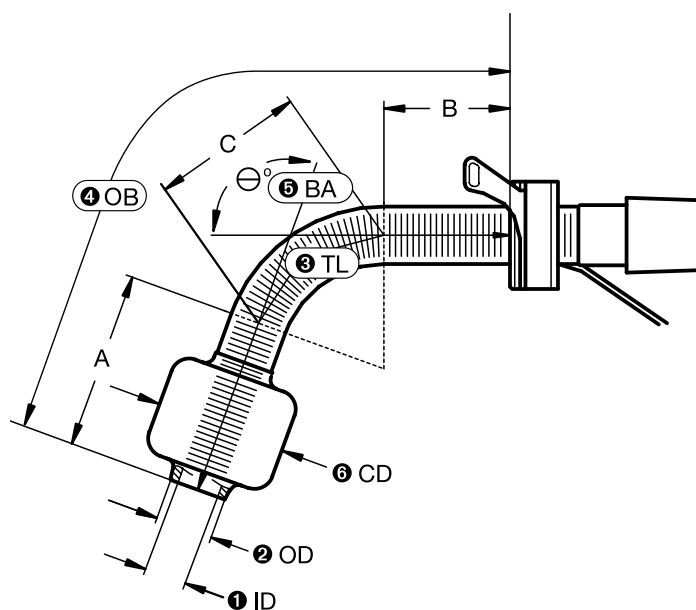


**REF 461-P**

**TRACOE vario XL Tracheostomy Tube, Extra-Long,**  
with Adjustable Neck Flange, Low Pressure Cuff  
and Atraumatic Insertion System

**REF 461-P** In sterile package

- ◆ Cannula, extra-long, with 15 mm connector, cuff, X-ray contrast line, scale and atraumatic insertion system
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown on page 15)







REF 470-P



REF 471-P

**TRACOE vario extract Tracheostomy Tube with Adjustable Neck Flange, Low Pressure Cuff, Subglottic Suction Line and Atraumatic Insertion System**

**REF 470-P***In sterile package*

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line, scale, subglottic suction line and atraumatic insertion system
- ◆ 2 connectors for suction devices
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown on page 15)

**TRACOE vario extract XL Tracheostomy Tube, Extra-Long, with Adjustable Neck Flange, Low Pressure Cuff, Subglottic Suction Line and Atraumatic Insertion System**

**REF 471-P***In sterile package*

- ◆ Cannula, extra-long, with 15 mm connector, cuff, X-ray contrast line, scale, subglottic suction line and atraumatic insertion system
- ◆ 2 connectors for suction devices
- ◆ Sterile lubricating gel
- ◆ Obturator and wide neck strap (shown on page 15)

### Reference Numbers and Measurements: REF 450-P, REF 460-P and REF 470-P (not available in size 07)

Size	❶ ID (mm)	❷ OD (mm)	Lengths (mm)					❸ BA (°)	❹ CD (mm)
			A	C	B	❹ TL	❹ OB		
07	7.0	9.7	33	32	15	80	86	100	26
08	8.0	11.2	35	35	20	90	97	100	28
09	9.0	12.3	38	35	27	100	106	100	30

### Reference Numbers and Measurements: REF 451-P, REF 461-P and REF 471-P (not available in size 07)

07	7.0	9.7	35	36	33	104	110	100	26
08	8.0	11.2	37	46	40	123	128	100	28
09	9.0	12.3	38	46	42	126	134	100	30

❶ ID: inside diameter (clear width) at bottom of cannula; ❷ OD: outside diameter at bottom of cannula; ❸ TL: length along centre line; ❹ OB: length along outer bend; ❺ BA: bending angle; ❻ CD: cuff diameter

► To order, specify REF + size (e.g. REF 450-07-P).

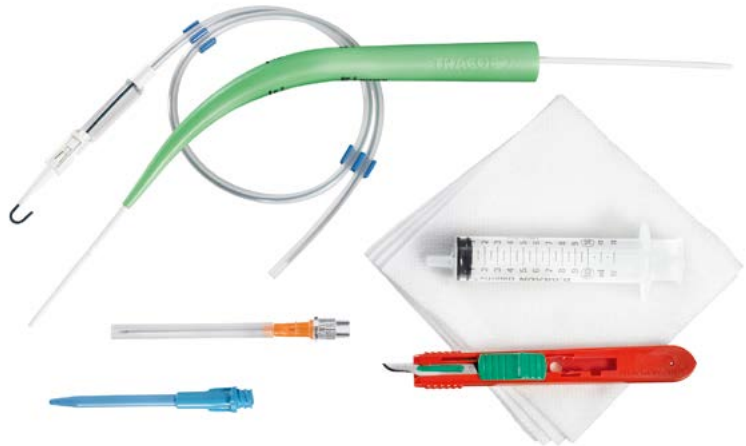
REF 520

## TRACOE expirc Dilatation Set

### For Percutaneous Tracheostomy

**REF 520** In sterile package

- ◆ Scalpel
- ◆ Syringe
- ◆ Puncture needle (14G) with Teflon catheter
- ◆ Seldinger guide wire made of kink resistant NiTiNiol with inserter
- ◆ Short dilator 14CH/FR
- ◆ Guiding catheter with safety stop
- ◆ TRACOE expirc dilator with hydrophilic coating (slides easily after moistening)
- ◆ 4 compresses



The TRACOE expirc Dilation Set can be supplemented with the tracheostomy tube which is best suited for the patient:

#### ▼ Tracheostomy Tube

#### ▼ As Set

For patients needing ventilation			
<b>REF 450-P</b>	Page 15	<b>REF 420-P</b>	Page 12
<b>REF 451-P</b>	Page 15	<b>REF 421-P</b>	Page 12
<b>REF 460-P</b>	Page 16	<b>REF 423-P</b>	Page 12
<b>REF 461-P</b>	Page 16	<b>REF 424-P</b>	Page 12
For patients with thick neck			
<b>REF 451-P</b>	Page 15	<b>REF 421-P</b>	Page 12
<b>REF 461-P</b>	Page 16	<b>REF 424-P</b>	Page 12
<b>REF 471-P</b>	Page 17	<b>REF 425-P</b>	Page 12
For ventilation and/or rehabilitation			
<b>REF 301-P</b>	Page 6	<b>REF 320-P</b>	Page 4
<b>REF 311-P</b>	Page 10	<b>REF 330-P</b>	Page 8
For ventilation and/or rehabilitation – as speaking tube			
<b>REF 302-P</b>	Page 6	<b>REF 321-P</b>	Page 4
<b>REF 312-P</b>	Page 10	<b>REF 331-P</b>	Page 8
For ventilation and/or rehabilitation – with subglottic suction line			
<b>REF 306-P</b>	Page 7	<b>REF 322-P</b>	Page 4
<b>REF 316-P</b>	Page 11	<b>REF 332-P</b>	Page 8
<b>REF 470-P</b>	Page 17	<b>REF 422-P</b>	Page 12
<b>REF 471-P</b>	Page 17	<b>REF 425-P</b>	Page 12
<b>REF 888-306-P</b>	Page 7	<b>REF 888-322-P</b>	Page 4
<b>REF 888-316-P</b>	Page 11	<b>REF 888-332-P</b>	Page 8

#### TRACOE twist

#### TRACOE twist plus



**REF 301-P**



**REF 311-P**



**REF 302-P**  
fenestrated



**REF 312-P**  
double fenestrated



**REF 306-P**  
with subglottic suction line



**REF 316-P**  
with subglottic suction line



**REF 888-306-P**  
fenestrated,  
with subglottic suction line



**REF 888-316-P**  
double fenestrated,  
with subglottic suction line



REF 517



REF 518

### Seldinger Guide Wire with Guiding Catheter

#### REF 517

Set in sterile package

- ◆ Seldinger guide wire made of kink resistant NiTiNoI
- ◆ Guiding catheter

To be used with all TRACOE *twist* tubes with atraumatic inserter.

### Seldinger Guide Wire

#### REF 518

Pack of 5, supplied in individual sterile packages

- ◆ Seldinger guide wire made of kink resistant NiTiNoI



The Seldinger technic with the Seldinger Guide Wire, should be used in difficult situations to provide a safer guided way into the trachea.

## TRACOE vario



**REF 450-P**  
spiral-reinforced



**REF 460-P**  
not spiral-reinforced



**REF 470-P extract**  
not spiral-reinforced, with subglottic suction line



**REF 451-P**  
extra-long, spiral-reinforced



**REF 461-P**  
extra-long, not spiral-reinforced



**REF 471-P extract**  
extra-long, not spiral-reinforced, with subglottic suction line



All TRACOE tracheostomy tubes for the percutaneous tracheostomy are available in sizes 07, 08 and 09 (REF 470-P and REF 471-P only in sizes 08 and 09). TRACOE *twist* plus tracheostomy tubes are available in size 10 as well.



### *Increased Flexibility*

Originally developed for inpatient applications, but now also very often used during rehabilitation as therapy tube and by patients at home. Fourteen tube models in various sizes, large range of replacement parts and accessories.



# TRACOE®

## *twist*

### ***High Acceptance***

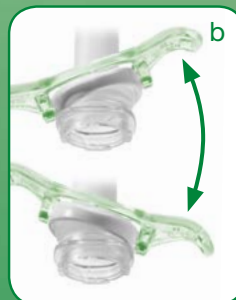
TRACOE *twist* tubes are made of tissue-friendly medical-grade polyurethane, so that they are well-tolerated by patients. They are radiopaque and come in sterile packages.

### ***Maximum Mobility***

TRACOE *twist* tubes have thin walls, which ensure maximum air flow. One additional feature of TRACOE *twist* is the anatomically shaped neck flange that moves around two axes: vertically (a) and horizontally (b). This allows patients to turn their head and neck freely without the tube exerting pressure on the trachea. The neck strap can easily be attached while the tube is in situ (c). The material of the low pressure cuff is soft and flexible and ensures a good sealing of the trachea with accurate cuff pressure management.

### ***Maximum Cost-Effectiveness***

TRACOE *twist* tubes were originally developed primarily for clinical use: e.g. for mechanical ventilation in intensive care or for ENT surgery. However, TRACOE *twist* tubes are now very often used during rehabilitation and by patients at home as well. The investment is enhanced by a broad range of replacement parts and accessories.



## TRACOE *twist* – Tracheostomy Tubes



**REF 301**



Colour Coding



**REF 302**



Colour Coding



### Tracheostomy Tube with Low Pressure Cuff

**REF 301** *In sterile package*

- ◆ Outer cannula with cuff
- ◆ 2 inner cannulas with 15mm connector
- ◆ Perforated obturator and wide neck strap (shown below)



Neck flange, blue writing:  
fenestrated outer cannula



Neck flange, green writing:  
unfenestrated outer cannula



Each TRACOE *twist* tube is supplied with a perforated obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).



### Tracheostomy Tube, Fenestrated, with Low Pressure Cuff

**REF 302** *In sterile package*

- ◆ Outer cannula, fenestrated, with cuff
- ◆ Inner cannula, fenestrated, with 15mm connector
- ◆ Inner cannula with 15mm connector
- ◆ Occlusion cap for 15mm connector
- ◆ Perforated obturator and wide neck strap (shown below)



#### TRACOE *twist* Colour Coding:

- REF 301 ● REF 302 ● REF 303 ● REF 304
- REF 305 ● REF 306 ● REF 888-306
- REF 309

The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



#### REF 301-P and REF 302-P:

TRACOE *twist* tracheostomy tubes with atraumatic inserter.

For details see page 4 to 7.



**REF 303**

Colour Coding

**REF 304**

Colour Coding

**Tracheostomy Tube****REF 303***In sterile package*

- ◆ Outer cannula
- ◆ 2 inner cannulas with 15mm connector
- ◆ Perforated obturator and wide neck strap (shown on page 22)

**Tracheostomy Tube, Fenestrated****REF 304***In sterile package*

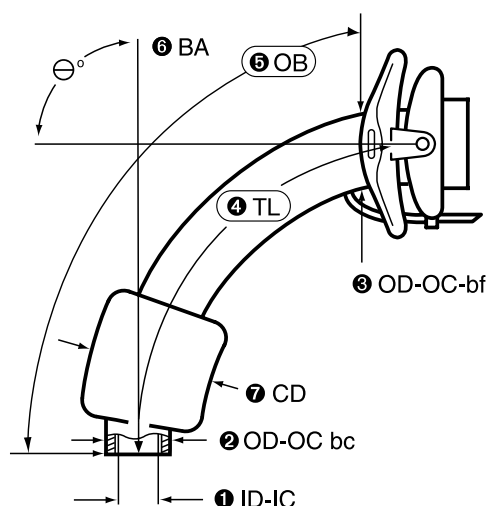
- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with 15mm connector
- ◆ Inner cannula with 15mm connector
- ◆ Occlusion cap for 15mm connector
- ◆ Perforated obturator and wide neck strap (shown on page 22)

**Reference Numbers and Measurements: REF 301, REF 302, REF 303, REF 304, REF 306, REF 888-306 (not in size 04 and 05) and REF 309**

Size	①	②	③	Lengths (mm)		⑥	⑦
	ID-IC (mm)	OD-OC bc (mm)	OD-OC bf (mm)	④ TL	⑤ OB	BA (°)	CD (mm)
04	4.0	7.2	8.6	56	63.0	110	15
05	5.0	8.6	10.1	66	73.0	100	18
06	6.0	9.2	10.8	72	79.5	95	23
07	7.0	10.4	12.0	74	80.5	95	26
08	8.0	11.4	12.7	76	83.0	90	28
09	9.0	12.5	14.2	78	88.5	90	30
10	10.0	13.8	15.2	80	89.5	90	32

① ID-IC: inside diameter (clear width) at bottom of inner cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ Length TL: along centre line from start of neck flange to bottom of tube; ⑤ Length OB: length along outer bend from start of neck flange to bottom of tube; ⑥ BA: bending angle; ⑦ CD: cuff diameter

► To order, specify: REF + size (e.g. REF 306-04).



Legend to symbol:



Fenestrated tube



**REF 305**



Colour Coding



**REF 306**



Colour Coding



## Laryngectomy Tube

### REF 305

*In sterile package*

- ◆ Outer cannula
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula with grooved low profile connector
- ◆ Perforated obturator and wide neck strap (shown on page 22)

## Tracheostomy Tube, with Low Pressure Cuff and Subglottic Suction Line

### REF 306

*In sterile package*

- ◆ Outer cannula with cuff and subglottic suction line
- ◆ 2 inner cannulas with 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Perforated obturator and wide neck strap (shown on page 22)

## Reference Numbers and Measurements: REF 305

Size	①	②	③	Lengths (mm)		⑥
	ID-IC (mm)	OD-OC bc (mm)	OD-OC bf (mm)	④ TL	⑤ OB	BA (°)
05	5.0	9.0	10.1	47	52	125
06	6.0	9.4	10.8	50	56	120
07	7.0	10.6	12.0	52	59	120
08	8.0	11.6	12.7	56	63	115
09	9.0	12.8	14.2	58	66	108
10	10.0	14.2	15.2	60	70	100

① ID-IC: inside diameter (clear width) at bottom of inner cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ Length TL: along centre line from start of neck flange to bottom of tube; ⑤ Length OB: length along outer bend from start of neck flange to bottom of tube; ⑥ BA: bending angle

○ Please refer to the figure on page 23.

► To order, specify: REF + size (e.g. REF 305-05).



### REF 306-P and REF 888-306-P:

TRACOE *twist* tracheostomy tubes with atraumatic inserter.

For details see page 4 to 7.



The reference numbers and measurements for REF 306, REF 888-306 and REF 309 can be found on the table on page 23.





REF 888-306



Colour Coding



REF 309



Colour Coding

**Product Variant:****TRACOE twist Tracheostomy Tube,  
Fenestrated, with Low Pressure Cuff and  
Subglottic Suction Line****REF 888-306***In sterile package*

- ◆ Outer cannula, fenestrated, with cuff and subglottic suction line
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, fenestrated, with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Perforated obturator and wide neck strap (shown on page 22)

**Tracheostomy Tube  
with Low Pressure Cuff  
and Air Supply Line for Speaking****REF 309***In sterile package*

- ◆ Outer cannula with cuff and air supply line for speaking
- ◆ Inner cannula with 15 mm connector
- ◆ Perforated obturator and wide neck strap (shown on page 22)



## TRACOE *twist* – Spare Parts and Accessories

**REF 501**



**REF 506**



**REF 401**



### **Spare Inner Cannulas, with 15 mm Connector**

**REF 501** 3 units supplied in  
individual sterile packages

**REF 501-X** 10 units supplied in  
individual sterile packages

The inner cannulas are spare parts for *twist* tubes  
REF 301, REF 302, REF 303, REF 304, REF 306,  
REF 888-306 and REF 309.

Sizes: 04, 05, 06, 07, 08, 09, 10

### **Inner Cannulas, Fenestrated, with Integrated Speaking Valve (light blue)**

**REF 401** 2 units supplied in  
individual sterile packages

The inner cannulas are accessories for *twist* tubes  
REF 302, REF 304 and REF 888-306.

Sizes: 04, 05, 06, 07, 08, 09, 10

### **Spare Inner Cannulas, Fenestrated, with 15 mm Connector (light blue)**

**REF 506** 3 units supplied in  
individual sterile packages

**REF 506-X** 10 units supplied in  
individual sterile packages

The inner cannulas are spare parts for *twist* tubes  
REF 302, REF 304 and REF 888-306.

Sizes: 04, 05, 06, 07, 08, 09, 10



Accessory for TRACOE *twist* Tubes:

- ◆ REF 622, 22 mm adapter for cannulas with  
15 mm connector (for details see page 60)



Accessory for TRACOE *twist* Tubes:

- ◆ Speaking valves and artificial noses  
(for details see page 60 and 61).



**REF 502****REF 503**

***Inner Cannulas, Fenestrated,  
with Grooved Low Profile Connector (light blue)***

**REF 502**      3 units supplied in  
individual sterile packages

The inner cannulas are accessories for *twist* tubes  
REF 302, REF 304 and REF 888-306.

Sizes: 04, 05, 06, 07, 08, 09, 10

***Spare Inner Cannulas,  
with 15 mm Connector***

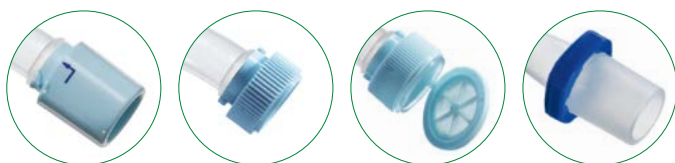
**REF 503**      3 units supplied in  
individual sterile packages

The inner cannulas are spare parts for *twist* tube  
REF 305.

Sizes: 05, 06, 07, 08, 09, 10



All fenestrated inner tubes are recognizable by  
blue parts, e.g. 15 mm connector.



Legend to symbol:



Speaking valve or fenestrated tube with integrated speaking valve

## TRACOE *twist plus* – Tracheostomy Tubes

Deutscher  
**INNOVATIONSPREIS 2013**  
FÜR AUßERKLINISCHE INTENSIVFLEGE



**REF 311**



Colour Coding



Detail of the additional  
two phonation holes  
at the inner bend

**REF 312**



Colour Coding



### TRACOE *twist plus* Tracheostomy Tube with Low Pressure Cuff

**REF 311**

*In sterile package*

- ◆ Outer cannula with cuff
- ◆ 2 inner cannulas with 15 mm connector
- ◆ Perforated Obturator and wide neck strap (shown on page 30)

### TRACOE *twist plus* Tracheostomy Tube, Double Fenestrated with Low Pressure Cuff

**REF 312**

*In sterile package*

- ◆ Outer cannula, double fenestrated, with cuff
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, double fenestrated, with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ Perforated obturator and wide neck strap (shown on page 30)



#### Features of TRACOE *twist plus* Tracheostomy Tubes:

- ◆ Elongated version of the well-proven TRACOE *twist* tubes.
- ◆ Greatly reduced wall thickness
- ◆ Thin-walled but stable inner cannula
- ◆ Less outer diameter with existing conformity of size
- ◆ Less airway resistance
- ◆ Safety locking device for the inner tube
- ◆ Highly improved phonation through double-fenestration of REF 312, REF 314 and REF 888-316: multiple fenestration at the outer bend as well as two additional phonation holes at the inner bend.



#### TRACOE *twist plus* Colour Coding:

++ REF 311 ++ REF 312 ++ REF 313  
++ REF 314 ++ REF 316 ++ REF 888-316

The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



#### REF 311-P and REF 312-P:

TRACOE *twist plus* Tracheostomy tubes with atraumatic insertion system. For details see pages 8 to 11.







REF 313



Colour Coding



REF 314



Colour Coding



Detail of the additional  
two phonation holes  
at the inner bend

## TRACOE twist plus Tracheostomy Tube

### REF 313

In sterile package

- ◆ Outer cannula
- ◆ 2 inner cannulas with 15mm connector
- ◆ Perforated Obturator and wide neck strap (shown on page 30)

## TRACOE twist plus Tracheostomy Tube, Double Fenestrated

### REF 314

In sterile package

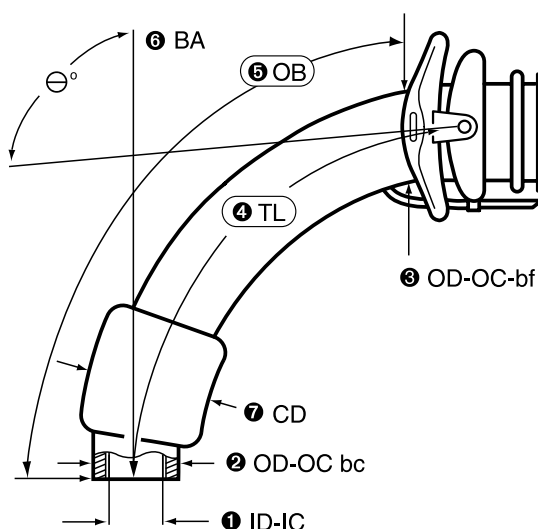
- ◆ Outer cannula, double fenestrated
- ◆ Inner cannula with 15mm connector
- ◆ Inner cannula, double fenestrated, with 15mm connector
- ◆ Occlusion cap for 15mm connector
- ◆ Perforated obturator and wide neck strap (shown on page 30)

## Reference Numbers and Measurements: REF 311, REF 312, REF 313, REF 314, REF 316 and REF 888-316

Size	① ID-IC (mm)	② OD-OC bc (mm)	③ OD-OC bf (mm)	Lengths (mm)		⑥ BA (°)	⑦ CD (mm)
				④ TL	⑤ OB		
07	7,0	9,8	10,1	85	91	100	26
08	8,0	10,8	11,1	88	95	100	28
09	9,0	11,8	12,1	90	99	100	30
10	10,0	12,8	13,1	92	102	100	32

① ID-IC: inside diameter (clear width) at bottom of inner cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ Length TL: along centre line from start of neck flange to bottom of tube; ⑤ Length OB: length along outer bend from start of neck flange to bottom of tube; ⑥ BA: bending angle; ⑦ CD: cuff diameter

► To order, specify: REF + size (e.g. REF 311-08).



Legend to symbol:



Fenestrated tube



REF 316



Colour Coding



REF 888-316



Colour Coding



Detail of the additional  
two phonation holes  
at the inner bend

### TRACOE *twist plus* Tracheostomy Tube, with Low Pressure Cuff and Subglottic Suction Line

REF 316

In sterile package

- ◆ Outer cannula with cuff and subglottic suction line
- ◆ 2 inner cannulas with 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Perforated obturator and wide neck strap (shown below)



Accessory for TRACOE *twist plus* Tubes:

- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)



Each TRACOE *twist plus* is supplied with a perforated obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).



Product Variant:

### TRACOE *twist plus* Tracheostomy Tube, Double Fenestrated, with Low Pressure Cuff and Subglottic Suction Line

REF 888-316

In sterile package

- ◆ Outer cannula, double fenestrated, with cuff and subglottic suction line
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula, double fenestrated, with 15 mm connector
- ◆ Occlusion cap for 15 mm connector
- ◆ 2 connectors for suction devices
- ◆ Perforated obturator and wide neck strap (shown below)



TRACOE *twist plus* tracheostomy tubes are supplied with 2 inner cannulas. One of it is inserted in the outer cannula already.



REF 316-P and REF 888-316-P:

TRACOE *twist plus* Tracheostomy tubes with atraumatic insertion system. For details see pages 8 to 11.





**REF 521**

## **Spare Inner Cannulas, with 15 mm Connector**

**REF 521** 3 units supplied in  
individual sterile packages  
**REF 521-X** 10 units supplied in  
individual sterile packages

The inner cannulas are spare parts for *twist* plus tubes REF 311, REF 312, REF 313, REF 314, REF 316 and REF 888-316.  
Sizes: 07, 08, 09, 10



**REF 523**

## **Spare Inner Cannulas, Double Fenestrated, with 15 mm Connector**

**REF 523** 3 units supplied in  
individual sterile packages  
**REF 523-X** 10 units supplied in  
individual sterile packages

The inner cannulas are spare parts for *twist* plus tubes REF 312, REF 314 and REF 888-316.  
Sizes: 07, 08, 09, 10



Detail of the additional  
two phonation holes at  
the inner bend





### *A Perfect Fit*

The flexible tube with patented, variably adjustable neck flange. It allows the correct adjustment in length.

# TRACOE®

## vario

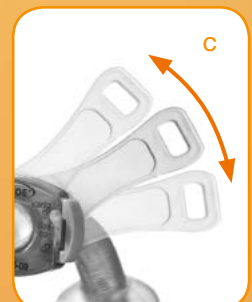
### **Patented**

TRACOE *vario* – the flexible tube with the patented, variably adjustable neck flange. By means of a practical pressure mechanism, the neck flange can be moved and, thus, be adjusted individually to any patient. A scale ensures the exact positioning of the neck flange in preparation to change tubes (a). The flange is fixed immediately after its release. Additionally as an optional precaution, the neck flange can be securely locked by pulling up the orange lever system (b). Since no screw top is used, no pressure of any kind will be exerted on the trachea.

### **Numerous Adaptabilities**

The pliable wings on the flange can be adjusted independently of one another (c). This provides additional possibilities for meeting the unique anatomical requirements of each patient.

TRACOE *vario* tracheostomy tubes come in many different versions: reinforced with a metal spiral or made of clear plastic (with an X-ray contrast line), with or without low pressure cuff, with subglottic suction line and in an extra-long version.





## TRACOE vario – Tracheostomy Tubes



**REF 450**



Colour Coding



**REF 455**



Colour Coding

### TRACOE vario Tracheostomy Tube Spiral-Reinforced, with Adjustable Neck Flange and Low Pressure Cuff

#### REF 450

*In sterile package*

- ◆ Cannula with 15 mm connector, spiral-reinforced, with cuff and scale
- ◆ Obturator and wide neck strap (shown below)

### TRACOE vario Tracheostomy Tube Spiral-Reinforced, with Adjustable Neck Flange

#### REF 455

*In sterile package*

- ◆ Cannula with 15 mm connector, spiral-reinforced, with scale
- ◆ Obturator and wide neck strap (shown below)



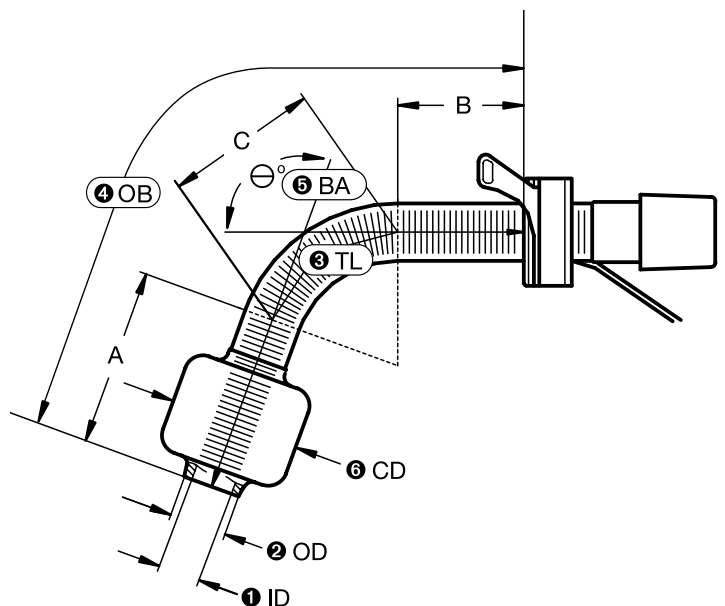
#### TRACOE vario Colour Coding:

● REF 450 ● REF 455 ● REF 460 ● REF 470  
 XL REF 451 XL REF 461 XL REF 471

The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



Each TRACOE vario tube is supplied with an obturator and a wide adjustable neck strap as well as a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).





REF 460



Colour Coding

### TRACOE vario Tracheostomy Tube with Adjustable Neck Flange and Low Pressure Cuff

#### REF 460

In sterile package

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line and scale
- ◆ Obturator and wide neck strap (shown on page 34)

#### Reference Numbers and Measurements: REF 450, REF 455 and REF 460

Size	① ID (mm)	② OD (mm)	Lengths (mm)					⑤ BA (°)	⑥ CD (mm)
			A	C	B	③ TL	④ OB		
06	6.0	8.2	30	28	12	70	76	100	23
07	7.0	9.7	33	32	15	80	86	100	26
08	8.0	11.2	35	35	20	90	97	100	28
09	9.0	12.3	38	35	27	100	106	100	30
10	10.0	13.7	38	37	35	110	120	100	32
11	11.0	14.8	38	37	35	110	121	100	34

① ID: inside diameter (clear width) at bottom of cannula; ② OD: outside diameter at bottom of cannula; ③ TL: length along centre line; ④ OB: length along outer bend; ⑤ BA: bending angle; ⑥ CD: cuff diameter (REF 450 and REF 460)

► To order, specify REF + size (e.g. REF 450-06).



#### REF 450-P und REF 460-P:

TRACOE vario tracheostomy tubes with atraumatic insertion system. For details refer to page 12 to 17.



## TRACOE vario – Tracheostomy Tubes, extra-long



REF 451



Colour Coding



REF 461



Colour Coding

**TRACOE vario XL Tracheostomy Tube,  
Extra-Long, Spiral-Reinforced, with Adjustable Neck  
Flange and Low Pressure Cuff**

**REF 451** In sterile package

- ◆ Cannula with 15 mm connector, spiral-reinforced, with cuff and scale
- ◆ Obturator and wide neck strap (shown on page 34)

**TRACOE vario XL Tracheostomy Tube,  
Extra-Long, with Adjustable Neck Flange  
and Low Pressure Cuff**

**REF 461** In sterile package

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line and scale
- ◆ Obturator and wide neck strap (shown on page 34)

### Reference Numbers and Measurements: REF 451, REF 461 and REF 471

Size	① ID (mm)	② OD (mm)	Lengths (mm)					⑤ BA (°)	⑥ CD (mm)
			A	C	B	③ TL	④ OB		
07	7.0	9.7	35	36	33	104	110	100	23
08	8.0	11.2	37	43	40	120	128	100	28
09	9.0	12.3	38	43	45	126	134	100	30
10	10.0	13.7	38	52	45	135	146	100	32

### Reference Numbers and Measurements: REF 470

07	7.0	9.7	33	32	15	80	86	100	26
08	8.0	11.2	35	35	20	90	97	100	28
09	9.0	12.3	38	35	27	100	106	100	30
10	10.0	13.7	38	37	35	110	120	100	32

① ID: inside diameter (clear width) at bottom of cannula; ② OD: outside diameter at bottom of cannula; ③ TL: length along centre line; ④ OB: length along outer bend; ⑤ BA: bending angle, ⑥ CD: cuff diameter

○ Please refer to the figure on page 34.

► To order, specify REF + size (e.g. REF 451-07).

**i** 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 cm H<sub>2</sub>O 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 nosocomial ventilator-associated pneumonia (Prävention der nosokomialen beatmungsassoziierten Pneumonie, KRINKO), German Federal Health Gazette (Bundesgesundheitsblatt) 2013 – 56:1578-1590

## TRACOE vario – Tracheostomy Tubes, with Subglottic Suction Line



REF 470



Colour Coding



REF 471

XL

Colour Coding



### **TRACOE vario extract Tracheostomy Tube with Adjustable Neck Flange, Low Pressure Cuff and Subglottic Suction Line**

**REF 470**

*In sterile package*

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line, scale and subglottic suction line
- ◆ 2 connectors for suction pump
- ◆ Obturator and wide neck strap (shown on page 34)

**REF 471**

*In sterile package*

- ◆ Cannula with 15 mm connector, cuff, X-ray contrast line, scale and subglottic suction line
- ◆ 2 connectors for suction pump
- ◆ Obturator and wide neck strap (shown on page 34)



**REF 470 and REF 471, with subglottic suction line.**

**Advantages and Special Information:**

- ◆ Accumulated subglottic secretions can be suctioned off at the lowest point, in other words right above the cuff. This reduces the risk of bacterially contaminated secretions entering the lower respiratory tract and the risk of developing aspiration pneumonia.
- ◆ The suction line is integrated in the wall of the tube to avoid any pressure marks in the tracheostoma. Via this line, secretions can be suctioned off.
- ◆ The variably adjustable neck flange with rotating wings permits universal adjustment to any neck anatomy (e.g. thick necks, postoperative oedema, asymmetrical necks).



**Accessory for TRACOE vario Tubes:**

- ◆ Artificial noses (for details see page 61)
- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)



**REF 451-P, REF 461-P, REF 470-P and REF 471-P:**

TRACOE vario tracheostomy tubes with atraumatic insertion system. For details refer to page 12 to 17.





***Small in Size,  
Big in Performance:***

TRACOE *mini*. The special tube for neonates and children. Extremely soft, thin-walled, kink resistant and radio-opaque.





# TRACOE®

## mini

### ***The Smaller, the Greater***

Sometimes the greatest achievements are made on a small scale: A prime example is the TRACOE *mini* – the product line especially developed for newborns, infants and children. TRACOE *mini* tracheostomy tubes are particularly soft and equipped with a neck flange with a slanted bottom, providing the tube with an optimised and atraumatic fit. These tubes have very thin walls to meet the special requirements of use in small patients, however, they reliably retain their shape at all times. The smooth, funnel-shaped inner design of the 15 mm connector allows an easy insertion of suction catheters.

### ***Easy and Reliable***

The special obturator is extremely practical. The grip on its end makes sure that the tube can be easily and reliably inserted despite its small size. An extension piece, heat/moisture exchanger, neck straps and compresses are also available to match.

### ***Anatomically Optimum Solutions***

So the best solution can be found for every small



patient. TRACOE *mini* is available in 12 different sizes: 4 for neonates and 8 for pediatric use.

## TRACOE *mini* – Tracheostomy Tubes



REF 350



Colour Coding



REF 355



Colour Coding

### Tracheostomy Tube for Neonates

#### REF 350

In sterile package

- ◆ Cannula
- ◆ Obturator and neck strap (shown on page 43)

#### Reference Numbers and Measurements: REF 350

Size	① ID (mm)	② OD (mm)	Lengths (mm)					⑤ BA (°)
			A	C	B	③ TL	④ OB	
2.5	2.5	3.6	6	22	2	30	32	120
3.0	3.0	4.3	7	23	2	32	34	120
3.5	3.5	5.0	8	23	3	34	37	120
4.0	4.0	5.6	9	24	3	36	40	120

#### Reference Numbers and Measurements: REF 355

2.5	2.5	3.6	8	22	2	32	34	120
3.0	3.0	4.3	10	24	2	36	39	120
3.5	3.5	5.0	12	25	3	40	43	120
4.0	4.0	5.6	14	27	3	44	48	120
4.5	4.5	6.3	16	28	4	48	52	120
5.0	5.0	7.0	18	28	4	50	55	120
5.5	5.5	7.6	20	30	5	55	60	120
6.0	6.0	8.4	22	35	5	62	67	120

① ID: inside diameter (clear width) of tube; ② AD: outside diameter of tube; ③ TL: length along centre line from start of neck flange to bottom of tube; ④ OB: length along outer bend from start of neck flange to bottom of tube; ⑤ BW: bending angle

► To order, specify REF + size (e.g. REF 355-2.5).

### Tracheostomy Tube for Children

#### REF 355

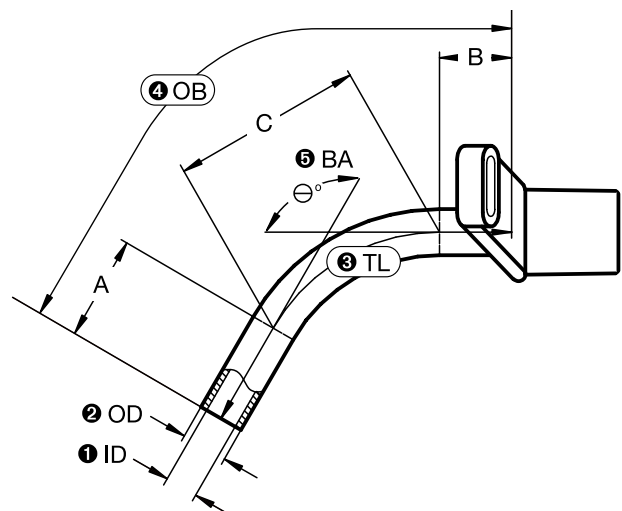
In sterile package

- ◆ Cannula
- ◆ Obturator and neck strap (shown on page 43)



#### Product variants REF 355:

Product variants can be made in order to optimise the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions. Product variations have green writing on the neck flange.





**REF 643**



**REF 356**



### TRACOE humid assist mini

#### REF 643

50 units, sterile,  
individually packaged

Heat/moisture exchanger with paper filter for attachment to any pediatric tube with 15 mm connector.

To be used in children with tidal volume (VT) of 7.5 ml to 50 ml.

### TRACOE mini Extension Piece

#### REF 356

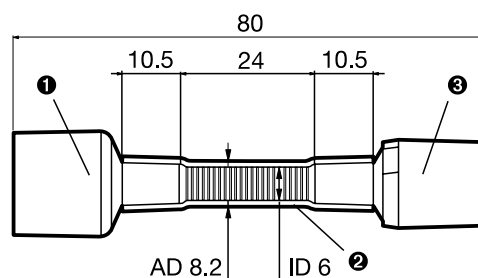
In sterile package

- ◆ Extension piece
- ◆ Disconnecting aid (wedge)
- ◆ Product information card with peel-off sticker on front and back

Prevents obstruction of the patient end of the tube.

The dead space will be increased by approx. 3.5-4 ml (cm<sup>3</sup>), which corresponds to the normal dead space of 2-3 year old children. Fits all *mini* tubes up to an inner diameter of 6 mm.

#### Measurements in mm:



- ① 15 mm Connector, female
- ② Reinforced Tube
- ③ 15 mm Connector, male



#### TRACOE *mini* Colour Coding:

● REF 350 ● REF 355

The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



#### Each TRACOE *mini* tube is supplied with

an obturator, a wide adjustable neck strap and a tube info card with detachable stickers on front and back. The neck strap is also available separately (REF 903-G).



#### Special accessories for TRACOE *mini* tubes:

- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)
- ◆ Neck strap and compresses, can be found on pages 76, 83 and 84 as part of the TRACOE care line of accessories.



## *Superb Quality*

TRACOE *comfort*:  
Tradition and five decades  
of continual improvements.  
Especially soft and flexible  
to maximise wearing comfort.  
Large selection of types and  
sizes, including tube variants  
on request.



# TRACOE®

## *comfort*

### ***Lightweight, Soft and Flexible***

TRACOE *comfort* tracheostomy tubes are made of clear medical-grade polymer material, 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 silver tube of the same size. Because they are transparent, it is also very easy to ensure that they are perfectly clean.

### ***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***

Every tube model comes in many different sizes and lengths. This variety makes it possible, to, e.g., avoid bruises at the tracheostoma and/or in the trachea, which would result in further impediments for the patient.



## TRACOE *comfort* – Tracheostomy Tubes



### REF 101

#### Tube without Inner Cannula

##### REF 101

- ◆ Cannula
  - ◆ Wide neck strap (shown on page 45)
- For acute tracheostomy and emergency care applications.

### REF 102

#### Tube with Inner Cannula

##### REF 102

- ◆ Outer cannula
  - ◆ Inner cannula
  - ◆ Wide neck strap (shown on page 45)
- For permanent wearers.

**i** Tubes of size 03, 04, 13 and 14 are made to order.  
Delivery time is approx. 10 working days.

#### Reference Numbers and Measurements: REF 101 to REF 105-D, REF 107 and REF 108

Size	❶ ID-OC (mm)	❷ OD-OC bc (mm)	❸ OD-OC bf (mm)	❹ ID-IC (mm)	Lengths (mm)		❶ ID-OC: inside diameter (clear width) at bottom of outer cannula; ❷ OD-OC bc: outside diameter at bottom of outer cannula; ❸ OD-OC bf: outside diameter of outer cannula behind the flange; ❹ ID-IC: inside diameter at bottom of inner cannula; ❺ Length TL: length along centre line from start of neck flange to bottom of tube; ❻ Length OB: length along outer bend (greatest length)
					❺ TL	❻ OB	
03	3.5	4.8	6.4	2.6	42	46	
04	4.0	5.6	7.3	3.2	50	55	
05	5.0	6.7	8.7	4.0	52	57	
06	6.0	7.6	10.0	4.8	54	60	
07	7.0	8.8	10.5	5.8	57	65	
08	8.0	10.0	11.3	6.8	61	70	
09	9.0	11.4	12.6	7.6	65	75	
10	10.0	12.4	13.7	8.7	74	85	
11	11.0	13.1	15.0	9.7	76	87	
12	12.0	14.2	16.2	10.8	78	90	
13	13.0	15.4	17.2	11.8	87	100	⊙ The bending angle is 90° in <i>comfort</i> tubes.
14	14.0	16.6	18.2	12.6	91	105	

► To order, specify: REF + size (e.g. REF 105-05).



**REF 102-D**



**REF 103**

### Tube with Inner Cannulas

#### REF 102-D

- ◆ Outer cannula
  - ◆ Two inner cannulas
  - ◆ Wide neck strap (shown below)
- For permanent wearers.

### Tube, Fenestrated, with Slide-On Speaking Valve, Type A

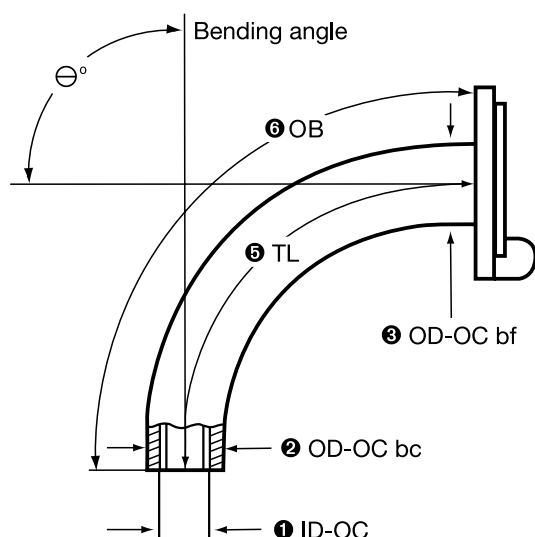
#### REF 103

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with slide-on silver valve type A
- ◆ Inner cannula
- ◆ Wide neck strap (shown below)

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



**REF 103-O:** Product variant of REF 103 with additional oxygen supply port attached to the inner cannula with speaking valve.



**Each TRACOE *comfort* tube is supplied with** an adjustable neck strap and a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).





**REF 103-A**

**Tube, Fenestrated,  
with Slide-On Speaking Valve, Type A**

**REF 103-A**

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with slide-on silver valve type A
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula
- ◆ Wide neck strap (shown on page 45)

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



**REF 103-A-O:** Product variant of REF 103-A with additional oxygen supply port attached to the inner cannula with speaking valve.



**REF 104**

**Tube, Fenestrated,  
with Swivel Speaking Valve, Type B**

**REF 104**

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with swivel valve type B
- ◆ Inner cannula
- ◆ Wide neck strap (shown on page 45)

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



**REF 104-O:** Product variant of REF 104 with additional oxygen supply port attached to the inner cannula with speaking valve.



**Product variants:**

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 on [www.tracoe.com](http://www.tracoe.com).



**Accessory for TRACOE comfort Tubes:**

- ◆ Speaking valves, occlusion caps and artificial noses (for details see page 60 and 61)
- ◆ REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- ◆ REF 518, Seldinger guide wire (for details see page 19)
- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)



REF 104-A



REF 114

### Tube, Fenestrated, with Swivel Speaking Valve, Type B

#### REF 104-A

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with swivel valve type B
- ◆ Inner cannula with 15mm connector
- ◆ Inner cannula
- ◆ Wide neck strap (shown on page 45)

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



**REF 104-A-O:** Product variant of REF 104-A with additional oxygen supply port attached to the inner cannula with speaking valve.

**i** The reference numbers and measurements for REF 103-A to REF 104-A can be found on the table on page 44.

### Tube, Fenestrated, with Swivel Speaking Valve, Type B

#### REF 114

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with swivel valve type B
- ◆ Inner cannula with 15mm connector
- ◆ Wide neck strap (shown on page 45)

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

#### Reference Numbers and Measurements: REF 114 and REF 115

Size	① ID-OC (mm)	② OD-OC bc (mm)	③ OD-OC bf (mm)	④ ID-IC (mm)	Lengths (mm)	
					⑤ TL	⑥ OB
07	7.0	8.8	10.5	5.8	57	65
08	8.0	10.0	11.3	6.8	61	70
09	9.0	11.4	12.6	7.6	65	75
10	10.0	12.4	13.7	8.7	74	85
11	11.0	13.1	15.0	9.7	76	87

① ID-OC: inside diameter (clear width) at bottom of outer cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ ID-IC: inside diameter at bottom of inner cannula; ⑤ Length TL: length along centre line from start of neck flange to bottom of tube; ⑥ Length OB: length along outer bend (greatest length)

⦿ The bending angle is 90° in *comfort* tubes.

⦿ Please refer to the figure on page 45.

► To order, specify: REF + size (e.g. REF 114-07).





**REF 105**

***Tube with 15mm Connector***

**REF 105**

- ◆ Outer cannula
- ◆ Inner cannula with 15mm connector
- ◆ Wide neck strap (shown on page 45)

For attaching:

TRACOE humid assist I (REF 640-CT),  
TRACOE humid assist III (REF 641) and  
TRACOE humid assist IV (REF 642).

Further information see page 58 to 61.



**REF 105-D**

***Tube with 15mm Connector***

**REF 105-D**

- ◆ Outer cannula
- ◆ Two inner cannulas with 15mm connector
- ◆ Wide neck strap (shown on page 45)

For attaching:

TRACOE humid assist I (REF 640-CT),  
TRACOE humid assist III (REF 641) and  
TRACOE humid assist IV (REF 642).

Further information see page 58 to 61.



The reference numbers and measurements  
for REF 105 to REF 105-D can be found on the  
table on page 44, for REF 115 on page 47.





**REF 115**

### Tube, Fenestrated, with 15 mm Connector

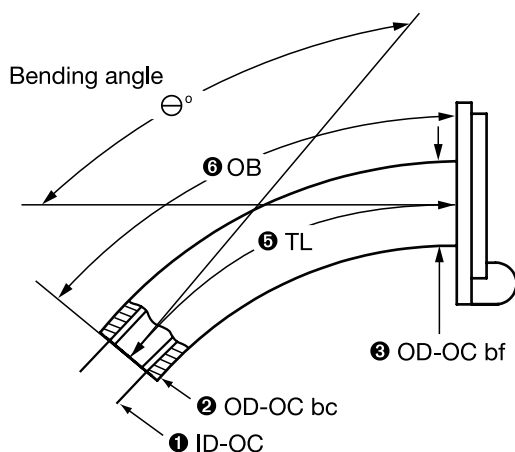
#### REF 115

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with 15 mm connector
- ◆ Inner cannula with 15 mm connector
- ◆ Wide neck strap (shown on page 45)

For attaching:

TRACOE phon assist (e.g. REF 650-T) and  
TRACOE humid assist (e.g. REF 640-CT).

Further information see page 58 to 61.



**REF 106-D**

### Laryngectomy Tube

#### REF 106-D

- ◆ Outer cannula, short
- ◆ Two inner cannulas, short
- ◆ Wide neck strap (shown on page 45)

For patients whose larynx has been removed.

The length and bending angle are designed  
for an optimum fit.

#### Reference Numbers and Measurements: REF 106-D

Size	① ID-OC (mm)	② OD-OC bc (mm)	③ OD-OC bf (mm)	④ ID-IC (mm)	Lengths (mm)	
					⑤ TL	⑥ OB
07	7.0	8.8	10.5	5.8	47	50
08	8.0	10.0	11.3	6.8	50	53
09	9.0	11.4	12.6	7.6	52	57
10	10.0	12.4	13.7	8.7	55	60
11	11.0	13.1	15.0	9.7	58	63
12	12.0	14.2	16.2	10.8	60	66

① ID-OC: inside diameter (clear width) at bottom of outer cannula; ② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ ID-IC: inside diameter at bottom of inner cannula; ⑤ Length TL: length along centre line from start of neck flange to bottom of tube; ⑥ Length OB: length along outer bend (greatest length)

⊙ The bending angle is 130° in *comfort* laryngectomy tubes.

► To order, specify: REF + size (e.g. REF 106-07D).





**REF 107**

**NEW! AVAILABLE FROM 08/2014**

***Tube, Fenestrated,  
with 15mm Connector and 22mm Adapter***

**REF 107**

- ◆ Outer cannula, double fenestrated
- ◆ Inner cannula, double fenestrated, with 22mm adapter  
For attaching: TRACOE phon assist (REF 650-S and REF 655-S with or without TRACOE humid assist II REF 645) and TRACOE humid assist (REF 640-S)
- ◆ Inner cannula with 15mm connector  
For attaching: TRACOE humid assist (REF 640-CT, REF 641 and REF 643)
- ◆ Wide neck strap (shown on page 45)

Further information see page 58 to 61.



**REF 108**

**NEW! AVAILABLE FROM 08/2014**

***Tube, Fenestrated,  
with Swivel Speaking Valve Type B***

**REF 108**

- ◆ Outer cannula, fenestrated
- ◆ Inner cannula, fenestrated, with swivel speaking valve type B
- ◆ Inner cannula, double fenestrated, with 22mm adapter  
For attaching: TRACOE phon assist (REF 650-S and REF 655-S with or without TRACOE humid assist II REF 645) and TRACOE humid assist (REF 640-S)
- ◆ Wide neck strap (shown on page 45)

Further information see page 58 to 61.

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



The reference numbers and measurements for REF 107 and REF 108 can be found on the table on page 44.

## TRACOE *comfort plus* – Tracheostomy Tubes, long

Deutscher  
INNOVATIONSPREIS 2013  
FÜR AUßERKLINISCHE INTENSIVFLEGE



**REF 157**

NEW! AVAILABLE FROM 08/2014

Deutscher  
INNOVATIONSPREIS 2013  
FÜR AUßERKLINISCHE INTENSIVFLEGE



**REF 158**

NEW! AVAILABLE FROM 08/2014

### **Tube, Double Fenestrated, with 15mm Connector and 22mm Adapter**

#### **REF 157**

- ◆ Outer cannula, double fenestrated
- ◆ Inner cannula, double fenestrated, with 22mm adapter  
For attaching: TRACOE phon assist (REF 650-S and REF 655-S with or without TRACOE humid assist II REF 645) and TRACOE humid assist (REF 640-S)
- ◆ Inner cannula with 15mm connector  
For attaching: TRACOE humid assist (REF 640-CT, REF 641 and REF 643)
- ◆ Wide neck strap (shown on page 45)

Further information see page 58 to 61.

### **Tube, Double Fenestrated, with Swivel Speaking Valve, Type B**

#### **REF 158**

- ◆ Outer cannula, double fenestrated
- ◆ Inner cannula, double fenestrated, with swivel speaking valve type B
- ◆ Inner cannula, double fenestrated, with 22mm adapter  
For attaching: TRACOE phon assist (REF 650-S and REF 655-S with or without TRACOE humid assist II REF 645) and TRACOE humid assist (REF 640-S)
- ◆ Wide neck strap (shown on page 45)

Further information see page 58 to 61.

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



#### **Features of TRACOE *comfort plus* Tracheostomy Tubes:**

- ◆ Maximised length of the tube
- ◆ Easier insertion of the inner cannula due to the bending angle of 100°.
- ◆ Improved handling of the swivel speaking valve type B to protect the valve flap of accidental bending
- ◆ Highly improved phonation through double fenestration: multiple fenestration at the outer bend as well as two additional phonation holes at the inner bend.



**The reference numbers and measurements  
for REF 157 and REF 158 can be found on the  
table on page 52.**





REF 164

NEW! AVAILABLE FROM 08/2014

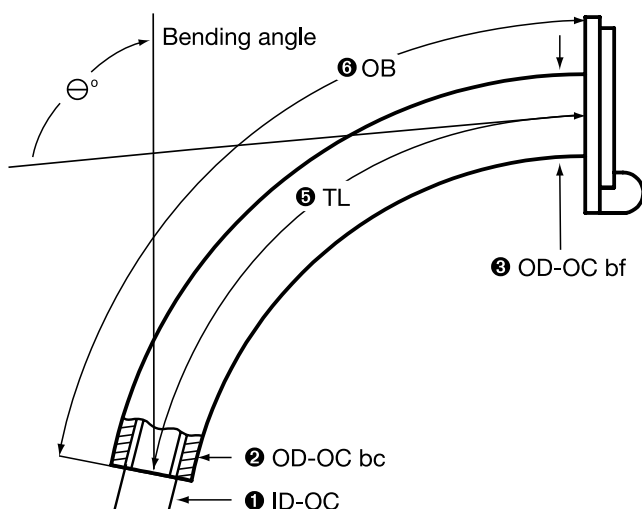
### Tube, Double Fenestrated, with Swivel Speaking Valve, Type B

#### REF 164

- ◆ Outer cannula, double fenestrated
- ◆ Inner cannula, double fenestrated, with swivel speaking valve type B
- ◆ Inner cannula with 15 mm connector  
For attaching: TRACOE humid assist (REF 640-CT, REF 641 and REF 643)

Further information see page 58 to 61.

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



#### Reference Numbers and Measurements: REF 157, REF 158 and REF 164

Size	1 ID-OC (mm)	2 OD-OC bc (mm)	3 OD-OC bf (mm)	4 ID-IC (mm)	Lengths (mm)	
					5 TL	6 OB
07	7.0	8.8	10.5	5.8	81	87
08	8.0	10.7	11.3	6.8	84	91
09	9.0	11.6	12.6	7.6	86	94
10	10.0	12.0	13.7	8.7	88	97
11	11.0	13.5	15.0	9.7	91	100

1 ID-OC: inside diameter (clear width) at bottom of outer cannula; 2 OD-OC bc: outside diameter at bottom of outer cannula; 3 OD-OC bf: outside diameter of outer cannula behind the flange; 4 ID-IC: inside diameter at bottom of inner cannula; 5 Length TL: length along centre line from start of neck flange to bottom of tube; 6 Length OB: length along outer bend (greatest length)

⊙ The bending angle is 100° in *comfort plus* tubes.

► To order, specify: REF + size (e.g. REF 157-07).



## REF 202

### Extra-Long Tube with Inner Cannula

#### REF 202

- ◆ Outer cannula, extra-long
- ◆ Inner cannula
- ◆ Wide neck strap (shown on page 54)

For permanent wearers and patients with tracheal stenosis.

## REF 202-D

### Extra-Long Tube with Inner Cannulas

#### REF 202-D

- ◆ Outer cannula, extra-long
- ◆ Two inner cannulas
- ◆ Wide neck strap (shown on page 54)

For permanent wearers and patients with tracheal stenosis.

**i** Tubes of size 13 and 14 are made to order.  
Delivery time is approx. 10 working days.

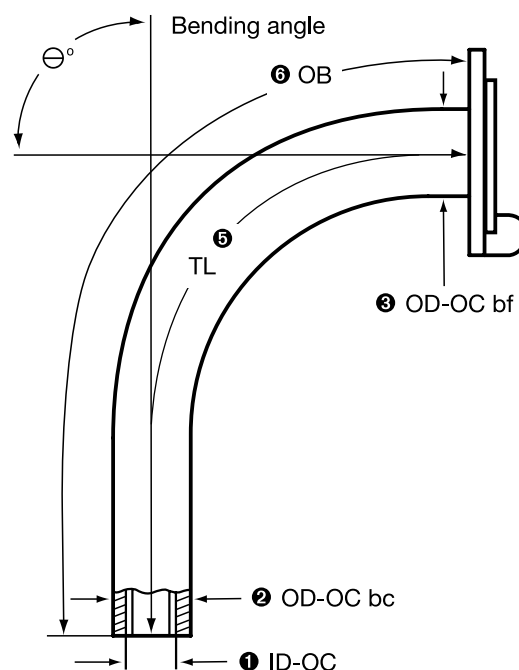
### Reference Numbers and Measurements: REF 202 to REF 205

Size	① ID-OC (mm)	② OD-OC bc (mm)	③ OD-OC bf (mm)	④ ID-IC (mm)	Lengths (mm)	
					⑤ TL	⑥ OB
05	5.0	6.6	9.0	4.0	85	92
06	6.0	7.7	9.8	5.0	87	95
07	7.0	8.7	10.5	6.0	93	100
08	8.0	10.5	12.2	6.7	96	105
09	9.0	11.5	13.0	7.5	100	110
10	10.0	12.5	14.5	8.8	104	115
11	11.0	13.5	15.5	9.2	108	120
12	12.0	14.4	16.4	10.0	112	125
13	13.0	15.4	18.0	11.8	116	130
14	14.0	16.4	18.2	12.6	122	135

① ID-OC: inside diameter (clear width) at bottom of outer cannula;  
② OD-OC bc: outside diameter at bottom of outer cannula; ③ OD-OC bf: outside diameter of outer cannula behind the flange; ④ ID-IC: inside diameter at bottom of inner cannula; ⑤ Length TL: length along centre line from start of neck flange to bottom of tube; ⑥ Length OB: length along outer bend (greatest length)

⊙ The bending angle is 90° in *comfort* tubes.

► To order, specify: REF + size (e.g. REF 205-05).







**REF 203**

***Extra-Long Tube, Fenestrated,  
with Slide-On Speaking Valve, Type A***

**REF 203**

- ◆ Outer cannula, extra-long, fenestrated
- ◆ Inner cannula, fenestrated, with slide-on silver valve type A
- ◆ Inner cannula
- ◆ Wide neck strap (shown below)

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



**REF 203-O:** Product variant of REF 203 with additional oxygen supply port attached to the inner cannula with speaking valve.

**i** Each TRACOE *comfort* tube is supplied with an adjustable neck strap and a tube info card with peel-off stickers on front and back. The neck strap is also available separately (REF 903-F).



**REF 204**

***Extra-Long Tube, Fenestrated,  
with Swivel Speaking Valve, Type B***

**REF 204**

- ◆ Outer cannula, extra-long, fenestrated
- ◆ Inner cannula, fenestrated, with swivel valve type B
- ◆ Inner cannula
- ◆ Wide neck strap (shown below)

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



**REF 204-O:** Product variant of REF 204 with additional oxygen supply port attached to the inner cannula with speaking valve.

**i** **Accessory for TRACOE *comfort* Tubes:**

- ◆ Speaking valves, artificial noses and occlusion caps (for details see page 60 and 61).
- ◆ REF 622, 22 mm adapter for cannulas with 15 mm connector (for details see page 60)



**REF 204-A**

### **Extra-Long Tube, Fenestrated, with Swivel Speaking Valve, Type B**

#### **REF 204-A**

- ◆ Outer cannula, extra-long, fenestrated
- ◆ Inner cannula, fenestrated, with swivel valve type B
- ◆ Inner cannula with 15 mm connector
- ◆ Inner cannula
- ◆ Wide neck strap (shown on page 54)

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



**REF 204-A-O:** Product variant of REF 204-A with additional oxygen supply port attached to the inner cannula with speaking valve.



#### **Product variants:**

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 on [www.tracoe.com](http://www.tracoe.com).



**REF 205**

### **Extra-Long Tube with 15 mm Connector**

#### **REF 205**

- ◆ Outer cannula, extra-long
- ◆ Inner cannula with 15 mm connector
- ◆ Wide neck strap (shown on page 54)

For attaching:

TRACOE humid assist I (REF 640-CT),  
TRACOE humid assist III (REF 641) and  
TRACOE humid assist IV (REF 642).

Further information see page 58 to 61.



The reference numbers and measurements for REF 203 to REF 205 can be found on the table on page 53.





## *Flexibility*

Speaking valves, artificial noses and occlusion possibilities for a variety of tracheostomy tubes and other carriers.



# TRACOE®

## *modular*

### ***The Modular System***

TRACOE speaking valves and heat/moisture exchanger can be attached to different support systems with 15mm connectors or 22mm housings, depending on requirements and indications. This modular system for tracheostomy tubes, stoma buttons, short tubes and adhesive carriers permits flexible solutions to suit individual patients.

### ***Speaking Valves***

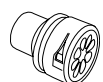
TRACOE phon assist I is used by tracheostomised patients and offers, due to the infinitely adaptable airway resistance, new therapeutic options. The TRACOE phon assist II speaking valve makes it possible for laryngectomised patients with a voice prosthesis and tracheostomised patients to speak hands-free. Both versions are individually adjustable.

### ***Heat/Moisture Exchangers***

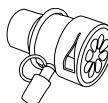
TRACOE humid assist I to IV as well as TRACOE humid assist mini are heat/moisture exchangers (HMEs) that act like an artificial nose by warming, moistening and filtering inhaled air.

## For Tracheostomy Tubes

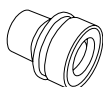
### Speaking Valves



**phon assist I**  
REF 650-T

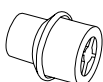


**phon assist I with oxygen supply port**  
REF 650-TO



**phon assist II**  
REF 655-T

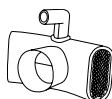
### Heat/moisture exchanger (HMEs)



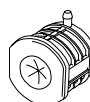
**humid assist I**  
REF 640-CT



**humid assist II**  
REF 645



**humid assist III**  
REF 641



**humid assist IV**  
REF 642



**humid assist mini**  
REF 643

### Occlusion Cap



REF 516

### 22 mm Adapter

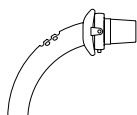


REF 622

**NEW! AVAILABLE FROM 08/2014**

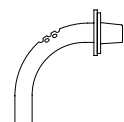
## Possible Combinations

### Tubes, fenestrated



● **TRACOE twist and twist plus tubes, fenestrated, with 15 mm connector**

REF 302, REF 302-P, REF 304, REF 888-306, REF 888-306-P, REF 312, REF 312-P, REF 314, REF 888-316, REF 888-316-P



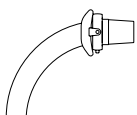
● **TRACOE comfort tube, fenestrated, with 15 mm connector**

REF 115, REF 215

#### Each in combination with:

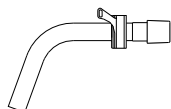
- ◀ **phon assist I** (REF 650-T)
- ◀ **phon assist I with oxygen supply port** (REF 650-TO)
- ◀ **humid assist I** (REF 640-CT)
- ◀ **humid assist III** (REF 641)
- ◀ **humid assist IV** (REF 642)
- ◀ **phon assist II** (REF 655-T)
- ◀ **phon assist II** (REF 655-T) + **humid assist II** (REF 645)
- ◀ **Occlusion Cap** (REF 516)
- ◀ **22 mm adapter** (REF 622)

### Tubes



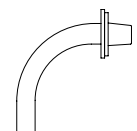
● **TRACOE twist and twist plus tubes, with 15 mm connector**

REF 301, REF 301-P, REF 303, REF 305, REF 306, REF 309, REF 311, REF 311-P, REF 313, REF 316



● **TRACOE vario tubes, with 15 mm connector**

REF 450, REF 450-P, REF 451, REF 451-P, REF 455, REF 460, REF 460-P, REF 461, REF 461-P, REF 470, REF 470-P, REF 471, REF 471-P



● **TRACOE comfort tubes, with 15 mm connector**

REF 103-A, REF 104-A, REF 114, REF 105, REF 105-D, REF 204-A, REF 205, REF 214

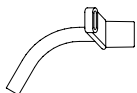
#### Each in combination with:

- ◀ **humid assist I** (REF 640-CT)
- ◀ **humid assist III** (REF 641)
- ◀ **humid assist IV** (REF 642)
- ◀ **22 mm adapter** (REF 622)



**Caution: All tubes with cuff have to be deflated before using a speaking valve!**

### Tubes, for neonates and children



● **TRACOE mini tubes with 15 mm connector**



REF 350,



REF 355

#### Each in combination with:

- ◀ **humid assist mini** (REF 643)
- ◀ **22 mm adapter** (REF 622)

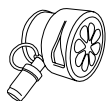


## For TRACOE buttons, Silicone Short Tubes and Adhesive Carriers

### Speaking Valves



**phon assist I**  
REF 650-S



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



**phon assist II**  
REF 655-S

### Heat/moisture exchanger (HMEs)



**humid assist I**  
REF 640-S



**humid assist II**  
REF 645

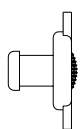
### Stopper



REF 621

## Possible Combinations

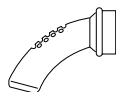
### Carrier with 22 mm housing



● **TRACOE larynx grid button**  
REF 601, REF 602, REF 603



● **TRACOE larynx stoma button**  
REF 611, REF 612, REF 613



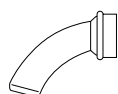
● **TRACOE larynx Silicone Short Tube, fenestrated**  
REF 581, REF 583



● **TRACOE larynx Adhesive Carrier**  
REF 660, REF 661

#### Each in combination with:

- ◀ **phon assist I** (REF 650-S)
- ◀ **phon assist I with oxygen supply port** (REF 650-SO)
- ◀ **humid assist I** (REF 640-S)
- ◀ **phon assist II** (REF 655-S)
- ◀ **phon assist II** (REF 655-S) + **humid assist II** (REF 645)
- ◀ **Stopper** (REF 621)



● **TRACOE larynx Silicone Short Tube**  
REF 580, REF 582

#### Each in combination with:

- ◀ **humid assist I** (REF 640-S)



## Speaking Valves and Occlusion Caps

### For Tracheostomy Tubes



REF 650-T



REF 655-T



REF 650-TO



REF 516



REF 622



NEW! AVAILABLE FROM 08/2014

#### TRACOE phon assist I

**REF 650-T** 1 unit supplied in sterile package  
Speaking valve with air supply from the side, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector (e.g. page 22/23, REF 302 and REF 304). Air supply from the side allows an individually adjustable airway resistance.  
Fits all tube sizes.

#### TRACOE phon assist II

**REF 655-T** 1 unit supplied in sterile package plus 5 units TRACOE humid assist II (REF 645), individually packaged in cleanroom  
Hands-free speaking valve, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector (e.g. page 22/23, REF 302 and REF 304).  
Fits all tube sizes.

#### TRACOE phon assist I with Oxygen Supply Port

**REF 650-TO** 1 unit  
supplied in sterile package

**REF 650-TO-5** **NEW!** 5 units, sterile,  
individually packaged

Speaking valve with air supply from the side, infinitely adjustable, with oxygen supply port. For attachment to any fenestrated tube with 15 mm connector (e.g. page 22/23, REF 302 and REF 304).

Air supply from the side allows an individually adjustable airway resistance.  
Fits all tube sizes.

#### Occlusion Caps for 15 mm Connectors (blue)

**REF 516** 5 units, sterile,  
individually packaged

Occlusion caps for fenestrated tubes with 15 mm connector.

#### 22 mm Adapter

**REF 622** **NEW!** 1 unit, sterile, individually packaged  
22 mm adapter for cannulas with 15 mm connector for attachment of e.g. TRACOE phon assist (REF 650-S and REF 655-S) and TRACOE humid assist (REF 640-S).

## Heat/Moisture Exchanger, HME

### For Tracheostomy Tubes

REF 640-CT



REF 642



REF 643



REF 645



REF 641



#### TRACOE humid assist I

**REF 640-CT** 50 units, sterile,  
individually packaged

Heat/moisture exchanger for attachment to any tube with 15 mm connector.  
Fits all tube sizes.



#### TRACOE humid assist mini

**REF 643** 50 units, sterile,  
individually packaged

Heat/moisture exchanger with paper filter for attachment to any pediatric tube with 15 mm connector. To be used in children with tidal volume (VT) of 7.5 ml to 50 ml.

#### TRACOE humid assist III

**REF 641** 50 units, sterile,  
individually packaged

Heat/moisture exchanger with paper filter for attachment to any tube with 15 mm connector, integrated oxygen supply port, turnable through 360°.  
Fits all tube sizes.

#### TRACOE humid assist IV

**REF 642** 30 units,  
individually packaged in cleanroom

Heat/moisture exchanger for attachment to any tube with 15 mm connector, integrated oxygen supply port and pressure control valve for expectoration of larger quantities of secretion.  
Fits all tube sizes.

#### TRACOE humid assist II

**REF 645** 50 units, sterile,  
individually packaged

Heat/moisture exchanger for attaching to the hands-free speaking valve TRACOE phon assist II (REF 655-T) only.

## Speaking Valves and Occlusion Caps

### For TRACOE buttons, Silicone Short Tubes and Adhesive Carriers



REF 650-S



REF 650-SO



REF 655-S



REF 621



#### TRACOE phon assist I

**REF 650-S** 1 unit supplied in sterile package  
Speaking valve with air supply from the side, infinitely adjustable, with flat base.  
For insertion in TRACOE stoma and grid buttons (REF 601-603 and REF 611-613), TRACOE adhesive carriers (REF 660 and REF 661) and silicone short tubes (REF 580-583).  
Air supply from the side allows an individually adjustable airway resistance.

**Caution: Not for use by laryngectomised patients.**

#### TRACOE phon assist I with Oxygen Supply Port

**REF 650-SO** 1 unit supplied in sterile package  
Speaking valve, infinitely adjustable, with flat base, oxygen supply port and cap.  
For insertion in TRACOE stoma and grid buttons (REF 601-603 and REF 611-613), TRACOE adhesive carriers (REF 660 and REF 661) and silicone short tubes (REF 580-583).  
Air supply from the side allows an individually adjustable airway resistance.

**Caution: Not for use by laryngectomised patients.**

#### TRACOE phon assist II

**REF 655-S** 1 unit supplied in sterile package plus 5 units TRACOE humid assist II (REF 645), individually packaged in cleanroom  
Hands-free speaking valve, infinitely adjustable.  
For attachment to TRACOE stoma and grid buttons (REF 601-603 and REF 611-613), TRACOE adhesive carriers (REF 660, REF 661) and silicone short tubes (REF 580-583).  
Fits all sizes.

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

#### Stopper

**REF 621** 5 units supplied in sterile package  
To temporarily seal TRACOE stoma and grid buttons (REF 601-603 and REF 611-613), TRACOE adhesive carriers (REF 660, REF 661) and silicone short tubes (REF 580-583) in patients with unobstructed upper airways and unrestricted breathing.

**Caution: Not for use by laryngectomised patients.**

## Heat/Moisture Exchanger, HME

For TRACOE buttons, Silicone Short Tubes and Adhesive Carriers

REF 640-S



REF 645



### TRACOE humid assist I

**REF 640-S** 50 units individually  
packaged in cleanroom

Heat/moisture exchanger with flat base for all carriers with 22 mm housing, e.g. TRACOE *comfort* tubes (REF 107, REF 108, REF 157, REF 158 and REF 164), TRACOE stoma and grid buttons (REF 601-603 and REF 611-613), TRACOE adhesive carriers (REF 660 and REF 661) and silicone short tubes (REF 580-583).

**For patients with or without voice prosthesis.**

### TRACOE humid assist II

**REF 645** 50 units individually  
packaged in cleanroom

Heat/moisture exchanger for attaching to the hands-free speaking valve TRACOE phon assist II (REF 655-S) only.







### ***Under Control***

Cuff Pressure Monitoring:  
Spot measurements with  
a handheld manometer or  
continuous, fully automatic  
monitoring and control with  
the new TRACOE smart.  
Prevents complications and  
secondary problems for  
the patient.

# TRACOE®

## *technic*

### ***Cuff Pressure Management***

TRACOE *technic* refers to medical devices, which allow setting and control of pressure in low pressure cuffs of tracheostomy and endotracheal tubes with high precision.

### ***Constant Pressure***

Why is it so important for the cuff to be properly inflated? For one, to ensure sufficient ventilation at all times. For another, to prevent silent aspiration, which, under certain circumstances, can lead to a nosocomial ventilation pneumonia. It also prevents damage to the trachea (mucosal necrosis, destruction of cartilage, tracheomalacia).

### ***Two Systems, One Goal***

TRACOE *technic* includes two ways to regularly check the cuff pressure. First, the TRACOE cpm handheld manometer, featuring a large, easy-to-read scale (0-100 cmH<sub>2</sub>O) for quick and easy measurements. The usual pressure range for the application is coloured green.

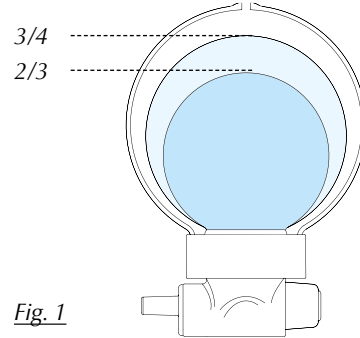
Secondly, the TRACOE smart Cuff Manager which maintains the inner pressure of low pressure cuffs of tracheostomy tubes as well as endotracheal tubes at 20 cmH<sub>2</sub>O to 30 cmH<sub>2</sub>O. The easy use and the visual verification of the correct cuff pressure assists nursing staff in hospitals as well as in home care.





**NEW!**

**REF 730**



*Fig. 1*

## TRACOE smart Cuff Manager

**REF 730-5** **NEW!** 5 units, sterile, individually packaged

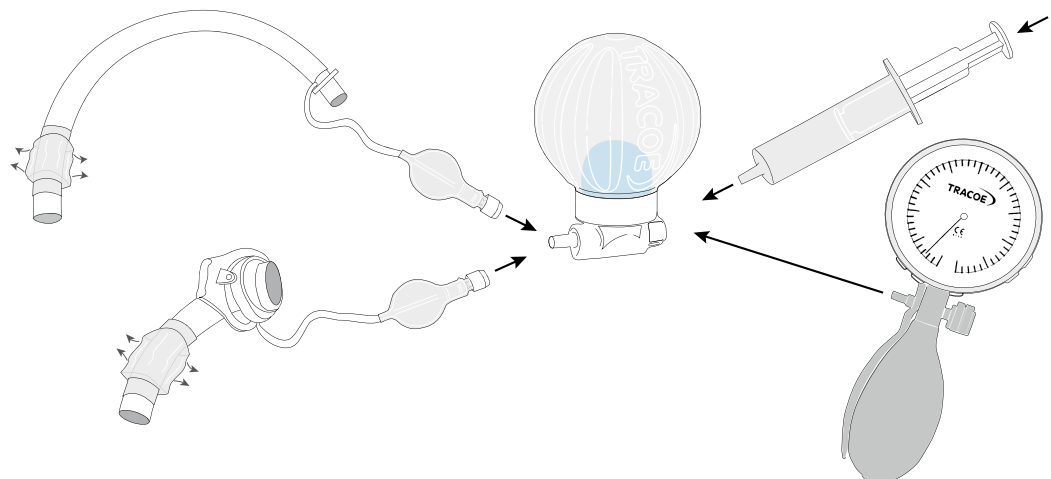
The TRACOE smart Cuff Manager monitors and regulates the internal pressure of High Volume Low Pressure cuffs of tracheostomy tubes as well as endotracheal tubes. The pressure is continuously held between 20 cmH<sub>2</sub>O and 30 cmH<sub>2</sub>O. Visual verification of the correct cuff pressure is indicated by the inflation level of the blue buffer balloon of the TRACOE smart, which should be inflated between 2/3 and 3/4 (fig. 1). Additional checks of the cuff pressure may be performed with a cuff pressure manometer (e.g. TRACOE cpm REF 720) at all times. If the cuff pressure is too low, the TRACOE smart Cuff Manager refills the cuff quickly to its recommended pres-

sure. 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.

The TRACOE smart Cuff Manager is easy to use and almost self-explanatory. It only takes one product training for even unspecialized nursing staff to use the TRACOE smart without problems.

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

*Fig. 2*  
Connecting/inflating correctly



Gefördert durch:



aufgrund eines Beschlusses  
des Deutschen Bundestages



REF 720



NEW!

REF 707

REF 702

REF 703

## TRACOE cuff pressure monitor

### REF 720

- ◆ TRACOE cuff pressure monitor
- ◆ 1 connection tube REF 702

The TRACOE cuff pressure monitor 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 use
- ◆ Precise, reproducible pressure indication
- ◆ Extra-large, easy-to-read scale from 0-100 cmH<sub>2</sub>O
- ◆ Widely spaced scale markings with colour coded pressure ranges

The TRACOE cuff pressure monitor comes with a connection tube with male and female Luer lock connectors on its ends (REF 702).

## Connection Tubes

**For REF 720, TRACOE cuff pressure monitor and for REF 730, TRACOE smart Cuff Manager**

### REF 707

NEW!

Length: 0.30 m

5 units, sterile, individually packaged

### REF 702

Length: 1.00 m

10 units, sterile, individually packaged

### REF 703

Length: 2.00 m

10 units, sterile, individually packaged

Tubes for connecting 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 cmH<sub>2</sub>O 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 nosocomial ventilator-associated pneumonia (Prävention der nosokomialen beatmungsassoziierten Pneumonie, KRINKO), German Federal Health Gazette (Bundesgesundheitsblatt) 2013 – 56:1578-1590





***Soft, Lightweight,  
Transparent:***

TRACOE buttons, silicone short tubes and adhesive carriers. An alternative for tracheostomised and laryngectomised patients.



# TRACOE®

## *larynx*

### ***Individual Solutions***

TRACOE *larynx* is a product group that is specifically geared to meet the needs of laryngectomised and tracheostomised patients in the hospital, during rehabilitation and home care.

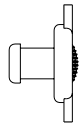
### ***The Products***

TRACOE stoma buttons and short tubes are made of soft, flexible silicone. Developed for patients who only require a device to keep the tracheostoma open continuously and do not need a proper tracheostomy tube, and for attaching speaking valves and/or HMEs.

The TRACOE adhesive carriers for laryngectomised or tracheostomised patients to attach heat/moisture exchangers (HMEs) humid assist I or the speaking valves phon assist I and phon assist II.

Information and reference numbers for TRACOE heat/moisture exchangers as well as TRACOE speaking valves you will find in the TRACOE *modular* as from page 56 onwards.

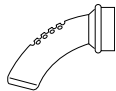
### Carrier with 22 mm housing



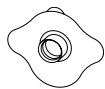
● TRACOE *larynx* grid button  
REF 601, REF 602, REF 603



● TRACOE *larynx* stoma button  
REF 611, REF 612, REF 613



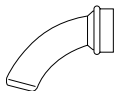
● TRACOE *larynx* Silicone Short Tube, fenestrated  
REF 581, REF 583



● TRACOE *larynx* Adhesive Carrier  
REF 660, REF 661

#### Each in combination with:

- ◀ phon assist I (REF 650-S)
- ◀ phon assist I with oxygen supply port (REF 650-SO)
- ◀ humid assist I (REF 640-S)
- ◀ phon assist II (REF 655-S)
- ◀ phon assist II (REF 655-S) + humid assist II (REF 645)
- ◀ Stopper (REF 621)



● TRACOE *larynx* Silicone Short Tube  
REF 580, REF 582

#### Each in combination with:

- ◀ humid assist I (REF 640-S)



Pictures, reference numbers and information for heat/moisture exchangers (humid assist), speaking valves (phon assist) and stoppers you will find in the product group TRACOE *modular* as from page 56. onwards



Scope of delivery TRACOE *larynx* products (except adhesive carriers) includes a product info card with peel-off stickers on front and back.



**REF 601**  
Short



**REF 602**  
Standard



**REF 603**  
Long



**REF 611**  
Short



**REF 612**  
Standard



**REF 613**  
Long



## TRACOE grid button

- REF 601** 1 unit supplied in sterile package with 1 neck strap
- REF 602** 1 unit supplied in sterile package with 1 neck strap
- REF 603** 1 unit supplied in sterile package with 1 neck strap

## TRACOE stoma button

- REF 611** 1 unit supplied in sterile package
- REF 612** 1 unit supplied in sterile package
- REF 613** 1 unit supplied in sterile package

Sizes: 06, 07, 08, 09, 10, 11, 12

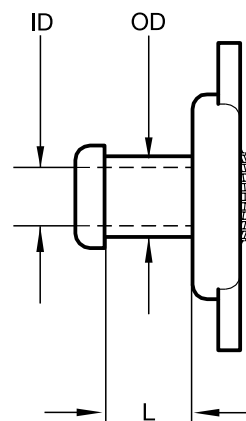
stoma button with eyes for attaching a neck strap and with a removable grid to prevent inhalation of foreign objects.

Sizes: 06, 07, 08, 09, 10, 11, 12

## Reference Numbers and Measurements:

### REF 601 to REF 603 and REF 611 to REF 613

Size	ID (mm)	OD (mm)	REF 601 REF 611	REF 602 REF 612	REF 603 REF 613
			Short	Standard	Long
06	6	9	16	22	30
07	7	10	16	22	30
08	8	11	16	22	30
09	9	12	16	22	30
10	10	13	16	22	30
11	11	14	16	22	30
12	12	15	16	22	30
ID: inside diameter; OD: outside diameter; L: length					
▶ To order, specify: REF + size (e.g. REF 601-06).					



## TRACOE *larynx* – Silicone Short Tubes



REF 580

REF 582



REF 581

REF 583



REF 585

REF 586

### TRACOE Silicone Short Tube with Connector, Unfenestrated

**REF 580**    Length 36 mm    1 unit, supplied with neck strap

**REF 582**    Length 53 mm    1 unit, supplied with neck strap

Ideal for the use in stable tracheostomas to secure the respiratory tracts once no tracheostomy tube is needed anymore.

For attachment to TRACOE humid assist I (REF 640-S).

### TRACOE Silicone Short Tube with Connector, Fenestrated

**REF 581**    Length 36 mm    1 unit, supplied with neck strap

**REF 583**    Length 53 mm    1 unit, supplied with neck strap

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

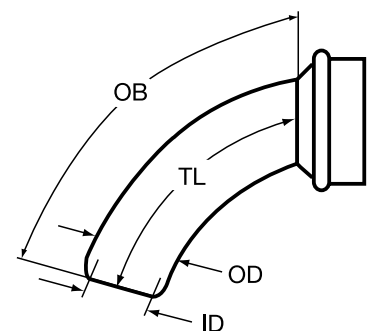
For attachment to TRACOE phon assist I (REF 650-S), TRACOE phon assist I with oxygen supply port (REF 650-SO), TRACOE phon assist II (REF 655-S) with or without TRACOE humid assist II (REF 645) and TRACOE humid assist I (REF 640-S).

### TRACOE Silicone Short Tube without Connector

**REF 585**    Length 36 mm    1 unit, supplied with neck strap

**REF 586**    Length 53 mm    1 unit, supplied with neck strap

Ideal for the use in stable tracheostomas to secure the respiratory tracts once no tracheostomy tube is needed anymore.



### Reference Numbers and Measurements:

**REF 580, REF 581, REF 585 and REF 582, REF 583, REF 586**

Size	ID (mm)	OD (mm)	REF 580, REF 581, REF 585		REF 582, REF 583, REF 586	
			Lengths (mm)		Lengths (mm)	
			TL	OB	TL	OB
08	9.5	12.0	36	43	53	62
09	10.5	13.5	36	43	53	62
10	12.5	15.0	36	43	53	62
12	13.5	17.0	36	43	53	62

D: inside diameter; OD: outside diameter; TL: Length along center line; OB: Length along outer bend

► To order, specify: REF + size (e.g. REF 580-09).



REF 660



REF 661



REF 607-70



REF 607-45

## TRACOE Adhesive Carrier Hydrocolloid

**REF 660** 20 units, individually packaged  
For affixing onto the tracheostoma. With anallergenic hydrocolloid coating, particularly suitable for patients with sensitive skin.  
Includes support ring for TRACOE speaking valves phon assist I (REF 650-S and REF 650-SO) and phon assist II (REF 655-S) with or without a heat/moisture exchanger TRACOE humid assist II (REF 645) and Stopper REF 621.

## TRACOE Adhesive Carrier Standard

**REF 661** 20 units, individually packaged  
For affixing onto the tracheostoma. The adhesive carrier is particularly thin and coated with a strong acrylate adhesive.  
Includes support ring for TRACOE speaking valves phon assist I (REF 650-S and REF 650-SO) and phon assist II (REF 655-S) with or without a heat/moisture exchanger TRACOE humid assist II (REF 645) and Stopper REF 621.

## TRACOE button plus

**REF 607-70** Length 70 mm 1 unit, supplied with neck strap  
**REF 607-45** Length 45 mm 1 unit, supplied with neck strap

For the therapy of tracheostomised patients after long-term ventilation – safe airway after decannulation. The sealing is very airtight and dislocation safe. 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.

Inside diameter 8 mm,  
Outside diameter 11 mm

### Caution, not suitable for

- ◆ laryngectomised patients
- ◆ patients with unstable breathing,
- ◆ patients, who primarily breathe through the tracheostoma.








***Cleaning,  
Maintenance,  
Accessories***

Optimally designed to facilitate the daily use of TRACOE products. Practical and convenient for patients and health-care staff.



# TRACOE<sup>®</sup>

care



## *Tracheostoma Management – As Comfortable as Possible*

Special situations require special solutions. Tracheostomised and laryngectomised patients need accessories that help make daily life with a tracheostomy tube as comfortable as possible. Many products in the TRACOE care line of accessories enhance the daily use of tracheostomy tubes, such as neck straps and protective scarves. The special cleaning kits and tracheal compresses ensure proper hygiene, which is of utmost importance.

## *Product Location Service*



You cannot find a specific product in the extensive TRACOE care range? Call them! The team of TRACOE medical will assist you in locating the required accessory.



## Neck Straps

For holding tubes securely in place.

REF	max. length (approx.) in cm	Width of neck strap (approx.) in cm
903-A	44	1.5
903-B	47	2.5
903-D	48	2.5
903-E	49	4.0
903-F	43	2.5
903-G	31	2.5
903-H	39	2.5
903-I	48	2.5
903-J	36	2.5

<b>REF 903-A</b>	1 unit	Beige, elastic, consists of one part, individually adjustable, with hook
<b>REF 903-B</b>	1 unit	White, wide, padded, consists of one part, individually adjustable, with hook-and-loop fastener
<b>REF 903-B-P</b>	10 units	Identical to REF 903-B
<b>REF 903-D</b>	1 unit	White, wide, padded, elastic, consists of two parts, individually adjustable, with hook-and-loop fastener,
<b>REF 903-E</b>	1 unit	White, wide, consists of one part, with hook-and-loop fastener
<b>REF 903-E-P</b>	10 units	Identical to REF 903-E
<b>REF 903-F</b>	1 unit	White, wide, consists of two parts, individually adjustable, with hook-and-loop fastener
<b>REF 903-F-P</b>	10 units	Identical to REF 903-F
<b>REF 903-G</b>	1 unit	  White, wide, consists of two parts, individually adjustable, with hook-and-loop fastener, for neonates and children
<b>REF 903-H</b>	1 unit	White, wide, padded, consists of one part, individually adjustable, with hook
<b>REF 903-H-P</b>	10 units	Identical to REF 903-H
<b>REF 903-I</b>	1 unit	White, long, wide, padded, consists of one part, individually adjustable, with hook
<b>REF 903-I-P</b>	10 units	Identical to REF 903-I
<b>REF 903-J</b>	1 unit	White, short, wide, padded, consists of one part, individually adjustable, with hook
<b>REF 903-J-P</b>	10 units	Identical to REF 903-J



**REF 902**

### ***Liquid Paraffin***

#### **REF 902**

Lubricates and protects TRACOE *comfort* tubes.  
Lets inner cannulas be easily inserted and removed,  
assures best possible fit and good quality of speech.  
Contents: 25 ml



**REF 915**

### ***Shower Guard***

#### **REF 915**

Protection for tube wearers while showering.  
Soft, adaptable and adjustable to different neck sizes.  
**Caution: May not be used for full-body bathing  
or swimming!**



## TRACOE care – Cleaning Kits



REF 930-A

REF 930-B



REF 931-A

REF 931-B

### TRACOE tube clean Cleaning Kits

For cleaning TRACOE tracheostomy tubes and TRACOE buttons.

**REF 930-A** With cleaning powder and small cleaning swabs

- ◆ tube clean cleaning powder (REF 932)
- ◆ tube clean cleaning tub (REF 934)
- ◆ 1 cleaning brush (REF 938-A)
- ◆ 50 cleaning swabs, small (REF 935)

**REF 930-B** With cleaning powder and large cleaning swabs

- ◆ tube clean cleaning powder (REF 932)
- ◆ tube clean cleaning tub (REF 934)
- ◆ 1 cleaning brush (REF 938-A)
- ◆ 50 cleaning swabs, large (REF 936)

**REF 931-A** With concentrated cleaning liquid and small cleaning swabs

- ◆ tube clean concentrated cleaning liquid (REF 933)
- ◆ tube clean cleaning tub (REF 934)
- ◆ 1 cleaning brush (REF 938-A)
- ◆ 50 cleaning swabs, small (REF 935)

**REF 931-B** With concentrated cleaning liquid and large cleaning swabs

- ◆ tube clean concentrated cleaning liquid (REF 933)
- ◆ tube clean cleaning tub (REF 934)
- ◆ 1 cleaning brush (REF 938-A)
- ◆ 50 cleaning swabs, large (REF 936)



All articles in the cleaning kits are also available separately.



Detailed tips and information on how to clean, disinfect and care for tracheostomy tubes can be found on pages 85 and 86 and in the respective instructions for use.





**REF 933**



**REF 932**



**REF 934**

### **TRACOE tube clean Concentrated Cleaning Liquid**

**REF 933** 1 bottle

Liquid cleaning concentrate for cleaning and maintaining tracheostomy tubes and stoma/grid buttons. The containing enzymes penetrate and dissolve all organic residues.

Rapidly acting.

Contents: 250 ml

(approx. 70 applications, approx. 3.5 ml / 700 ml water)

### **TRACOE tube clean Cleaning Powder**

**REF 932** 1 tub

Cleaning powder for cleaning and maintaining tracheostomy tubes and stoma/grid buttons. Dissolves incrustations.

Contents: 400g

(approx. 60 applications, approx. 7 g / 700ml water)

### **TRACOE tube clean Cleaning Tub with Mesh Basket**

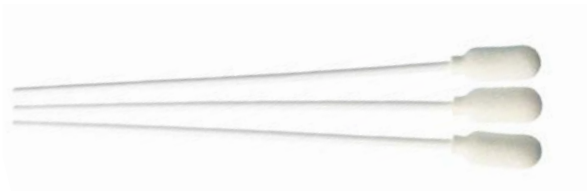
**REF 934** 1 tub

For tracheostomy tubes and stoma/grid buttons.

Volume: 1000 ml



**REF 935**



**REF 936**



**REF 970**



**REF 678**

### **TRACOE tube clean Cleaning Swabs**

#### **REF 935**      *Small*      Pack of 50

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

### **TRACOE tube clean Cleaning Swabs**

#### **REF 936**      *Large*      Pack of 50

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

### **Protective Skin Cloth**

#### **REF 970**      Pack of 50

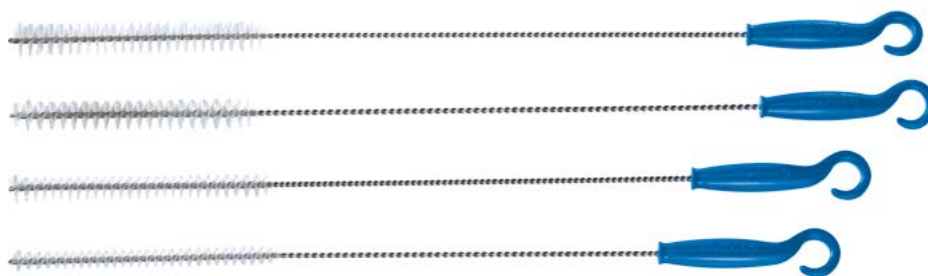
For daily skin care and cleaning around the tracheostoma. Dermatologically and itch-reducing. Impregnated with lipid regulating substances.

### **Angled Forceps**

#### **REF 678**      1 unit

To remove incrustations and clean tubes, autoclaveable.

REF 938



REF 940

### TRACOE Cleaning Brushes with Wool Tip

#### REF 938

Pack of 10

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

REF	Bristle-diameter	For tube inside diameter	Approx. total length
938-A	7 mm	5/6 mm	21 cm
938-B	9 mm	7/8 mm	21 cm
938-C	11 mm	9/10 mm	21 cm

### TRACOE Cleaning Brushes for Flexible Tracheostomy Tubes

#### REF 940

Pack of 10

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	Bristle-diameter	For tube inside diameter	Approx. total length.
940-A	7 mm	5/6 mm	31.5 cm
940-B	9 mm	7/8 mm	33.5 cm
940-C	11 mm	9/10 mm	36.0 cm
940-D	13 mm	11/12 mm	36.0 cm

## TRACOE care – Tracheal Compresses, Nonsterile

**REF 905**



**REF 909**

**REF 908**



**REF 910-A**

**REF 910-B**



**REF 960**



### Tracheal Compresses, Aluminium Coated, with Zigzag Slit

**REF 905** *Pack of 10*

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

Dimensions: approx. 9 x 9.8cm

### Tracheal Compresses

**REF 910-A** *Without slit* *Pack of 10*

**REF 910-B** *With zigzag slit* *Pack of 10*

These tracheal compresses absorb secretions from the tracheostoma to avoid skin irritations.

Dimensions: approx. 9 x 9.8cm

### TRACOE Tracheostoma Protection

**REF 908** *Small* *Pack of 10*  
Dimensions: approx. 6 x 6.5 cm

**REF 909** *Large* *Pack of 10*  
Dimensions: approx. 7.2 x 7.2 cm

Prevents foreign objects from entering the tracheostoma. With adhesive strip, for single use, for adults and children.

### Coated Tracheal Compresses with Zigzag Slit

**REF 960** *Pack of 10*

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

Dimensions: approx. 8 x 10 cm



**The zigzag slit keeps the compresses securely in place.** At the same time it is quite simple to remove the compress and replace it with a new one whilst wearing the tracheostomy tube.

REF 907-A

REF 907-B



REF 957



REF 961



### Two-Ply Tracheal Compresses

**REF 907-A** *Without slit* Pack of 10

**REF 907-B** *With zigzag slit* Pack of 10

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. Dimensions: approx. 9 x 9.8 cm

### Coated Two-Ply Tracheal Compresses with Zigzag Slit

**REF 957** Pack of 10

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. Dimensions: approx. 8 x 10 cm

### Tracheal Compresses with Zigzag Slit, for Neonates and Children

**REF 961** Pack of 10



Tracheal compresses to absorb secretions from the tracheostoma to avoid skin irritations. 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.

Dimensions: approx. 6.5 x 6.3 cm



**REF 958**



**REF 959**



**REF 969**



### TRACOE purofoam Tracheostomy Dressing

**REF 958**     Large     Pack of 10 supplied in individual sterile packages

For tracheostomy tube sizes 06 to 12.  
Dimensions: approx. 9 x 10 x 0.5 cm

**REF 959**     Small     Pack of 10 supplied in individual sterile packages

For tracheostomy tube sizes 03 to 05.  
Dimensions: approx. 6.5 x 6.5 x 0.5 cm

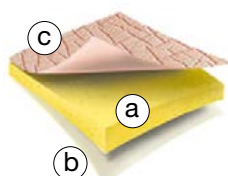
### TRACOE softpad Tracheostomy Stoma Pads

**REF 969**     Pack of 20 supplied in individual sterile packages

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).  
Dimensions: oval, approx. 5.5 cm at longest point and approx. 3.7 cm at widest point.



#### Features of TRACOE purofoam Tracheostomy Dressing:



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.

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 tracheostomas and any other kind of artificial orifice. This dressing meets modern standards of moist wound treatment.



REF 919

REF 920



REF 921







REF 923

## TRACOE Protective Bibs

REF 919-A	3-ply	White	1 unit
REF 919-B	6-ply		1 unit
REF 919-C	12-ply		1 unit
REF 920-A	3-ply	Beige	1 unit
REF 920-B	6-ply		1 unit
REF 920-C	12-ply		1 unit

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 Protective Scarves

REF 921-A	Grey plaid		1 unit
REF 921-B	Beige plaid		1 unit
REF 921-C	Dark green		1 unit
REF 921-D	Dark blue		1 unit
REF 921-E	Burgundy		1 unit

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 Protective Roll-Necks

REF 923 *Fine knit* *Classically elegant*

REF 923-A	White		1 unit
REF 923-B	Gray		1 unit
REF 923-C	Beige		1 unit
REF 923-D	Dark green		1 unit
REF 923-E	Dark blue		1 unit
REF 923-F	Burgundy		1 unit
REF 923-G	Black		1 unit

TRACOE protective roll-necks are made of 100 % cotton with an integrated polyester layer. They are worn underneath the shirt.



### Washing Instructions for TRACOE Protective Bibs, TRACOE Protective Scarves and TRACOE Protective Roll-Necks:

- ◆ Hand-wash, 30°C, with mild soap
- ◆ No dry-cleaning
- ◆ No bleaching
- ◆ No ironing

# INFORMATION FOR PATIENTS

## *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](http://www.tracoe.com)). 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. If the tracheostoma is fresh, however, do not remove the tube for very long, as it may be very difficult to reinsert. 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 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.

### **Please note:**

The tips and instructions for the care of the tracheostoma and tracheal hygiene are based on the manufacturer's practical experience. They are not intended to replace the medical advice of a physician or trained healthcare personnel.

TRACOE medical GmbH assumes no liability for claims resulting from the incorrect or improper care of the tracheostoma or incorrect or improper tracheal hygiene.

Medical indications as well as anatomical and physiological conditions vary for each tube wearer. For this reason, patients must consult their physician or healthcare professional for advice on the care of the tracheostoma and tracheal hygiene. Instructions given by the physician and healthcare personnel must be followed.

### **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. Depending on personal requirements, each patient should have at least six such articles on hand.

### **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 of materials that are approved internationally for medical use. They contain no latex. These products may only be disposed of in compliance with the applicable local regulations for waste materials. In the United States, federal law stipulates that these products may only be sold by or when prescribed by physicians.



# INFORMATION FOR DISTRIBUTORS

## *Sales Support*

TRACOE medical provides authorised distributors with valuable support for advising their patients:

### ***Tube Info Card/Product Info Card***

Every TRACOE tube and most of the *larynx* and *modular* products come with a card containing all relevant data for documentation and re-ordering purposes in the form of peel-off stickers on the front and back.

### ***Advertising***

Photographs of all TRACOE products are available e.g. for use in advertising or for your Website; please specify the desired file format.

### ***Sales Forces***

TRACOE product specialists are available to support you in dealing with difficult indications and training your teams.

### ***Training***

TRACOE medical conducts training sessions on products and their applications on request.

### ***News-Service***

You receive current information many times throughout the year by e-mail.



### ***Trade Shows/Conferences***

TRACOE medical participates in many major national and international trade shows and conferences. TRACOE medical can assist you with appropriate material.

### ***Demonstration Case***

TRACOE partners have found the top quality TRACOE demonstration case to be an excellent way to display the products. The demonstration cases can be individually stocked with TRACOE products and offer an excellent overview of the TRACOE portfolio at presentations.



# ORDERING

## ***Delivery***

All TRACOE products are shipped directly ex stock.

Non-sterile product variants are generally shipped within 10 days, sterile ones within 4 weeks.

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 are accepted only if accompanied by a completed decontamination certificate. You can obtain the required form either directly from TRACOE medical or from their website ([www.tracoe.com](http://www.tracoe.com)).

## ***General Terms and Conditions of Business:***

Sales and deliveries are made only on the basis of the general terms and conditions of business. You can obtain these either directly from TRACOE medical or from their website ([www.tracoe.com](http://www.tracoe.com)).

**telephone:** +49 6136 9169 -186  
-187

**fax:** +49 6136 9169 -289

**e-mail** [order@tracoe.com](mailto:order@tracoe.com)

To ensure prompt handling of your order please indicate the exact reference numbers (REF), the sizes of the tubes and your customer number on your order form.

## **Internet**

To quickly and conveniently obtain information about TRACOE products, news, or general information, simply visit the Internet at: [www.tracoe.com](http://www.tracoe.com).





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