FULL LINE CATALOGUE 2009/2010

TRACHEOSTOMY PRODUCTS

LARYNGECTOMY PRODUCTS

CLINICAL INSTRUMENTS

ACCESSORIES

INFORMATION



Group Dynamics

We can point to five

decades of competence in

tracheostomy products –

and in the last five years,

to more innovations than

any other producer serving

this market.

Our Offering Today

Nine families of

tracheostomy tubes and

related products such as

percutaneous dilation

tracheostomy sets, voice

prostheses, precision

instruments and accessories.



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Production

Since its establishment, TRACOE
medical has always developed
and produced all of its own
tracheostomy tubes. Therefore
the standard of quality is
constantly optimized and a
steady stream of new, even better
solutions for special applications
is created.









Management

Prof. Dr. med. Franz Waldeck
(Development and Production),
Stephan Köhler (Administration,
Marketing and Sales).





COMPETENCE IN TRACHEOSTOMY

Five Decades of Expertise

TRACOE medical is your competent partner in the highly specialised field of tracheostomy and laryngectomy for both physicians and patients. Special requirements call for special solutions, which is why TRACOE medical offers a complete product line consisting of various product families which complement one another. They start with percutaneous sets for performing dilation tracheostomy, include an assortment of tracheostomy tubes, and extend to items for postoperative care and rehabilitation. TRACOE medical also offers products to support proper functioning of the tubes, mainly for use in hospitals and nursing homes. Tracheostomy accessories, made to harmonise precisely with other TRACOE products, help hospitals and homecare facilities to keep their costs under control while supporting patients in using, cleaning and properly caring for their tracheostomy tubes.

All tracheostomy tubes are developed by TRACOE medical, as they have the know-how for innovations to form and then to be turned into practice-orientated products.

Certified Quality

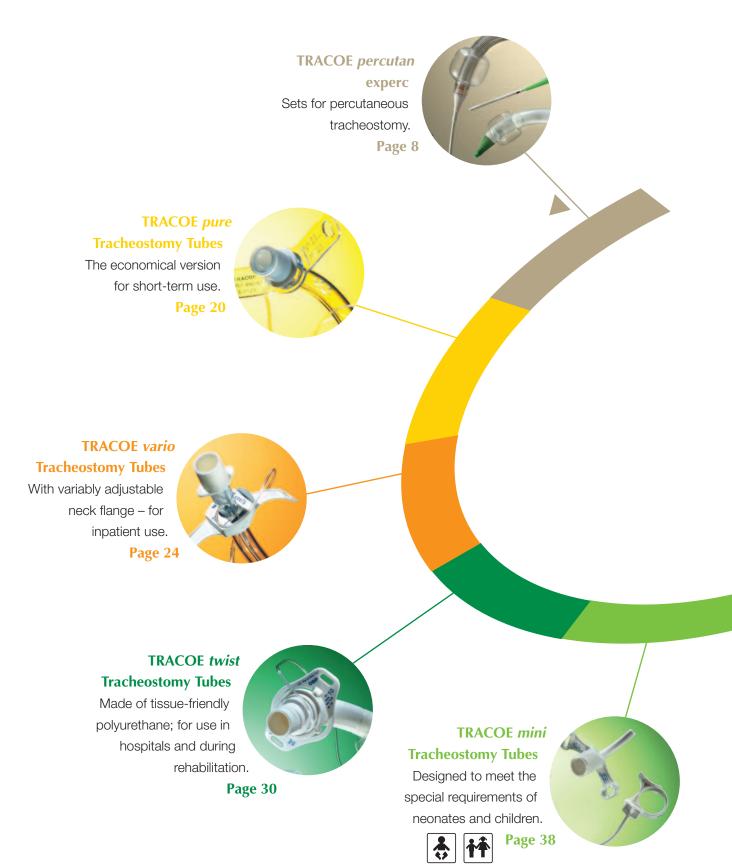
TRACOE medical's products are CE-certified. This documents the fact that they are developed, manufactured and tested in compliance with legal requirements and the basic stipulations of the EC Directive on Medical Products 93/42/EEC (Annex 1). This certification is regularly renewed on the basis of audits by a Notified Body. QM certification has also been obtained to show that TRACOE medical has implemented an effective quality management system which conforms to DIN EN ISO 13485:2003. All of TRACOE medical's staff are integrated in this quality system to ensure a consistently high level of quality for all TRACOE products.

In close consultation with the customers new products are developed, product variants – within technical possibilities – are produced and the existing products are improved. Thus the high standard of quality is further optimized.

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 worldwide, including the United States (US21CFR 820 - FDA) Canada (CanMDR) and Japan (JGMP).

THE TRACOE PROGRAMME

From Hospitals to the Care of Permanent Wearers



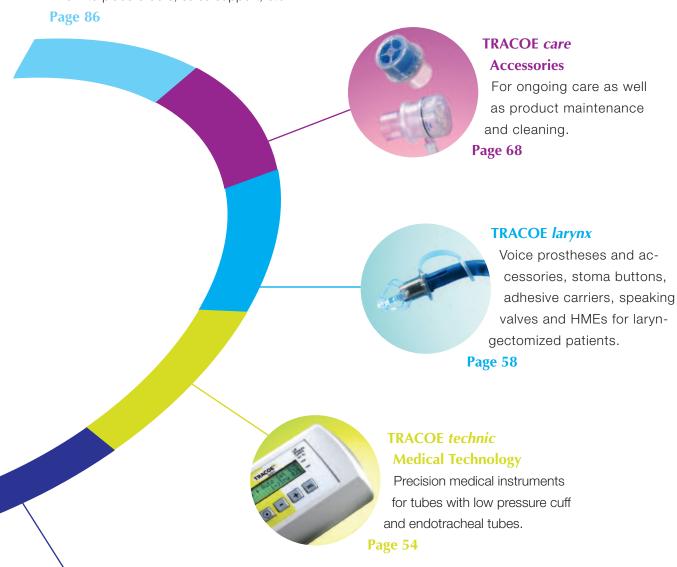
Information for Patients

Useful information about TRACOE tubes and daily care of them.

Page 84

Information for Distributors

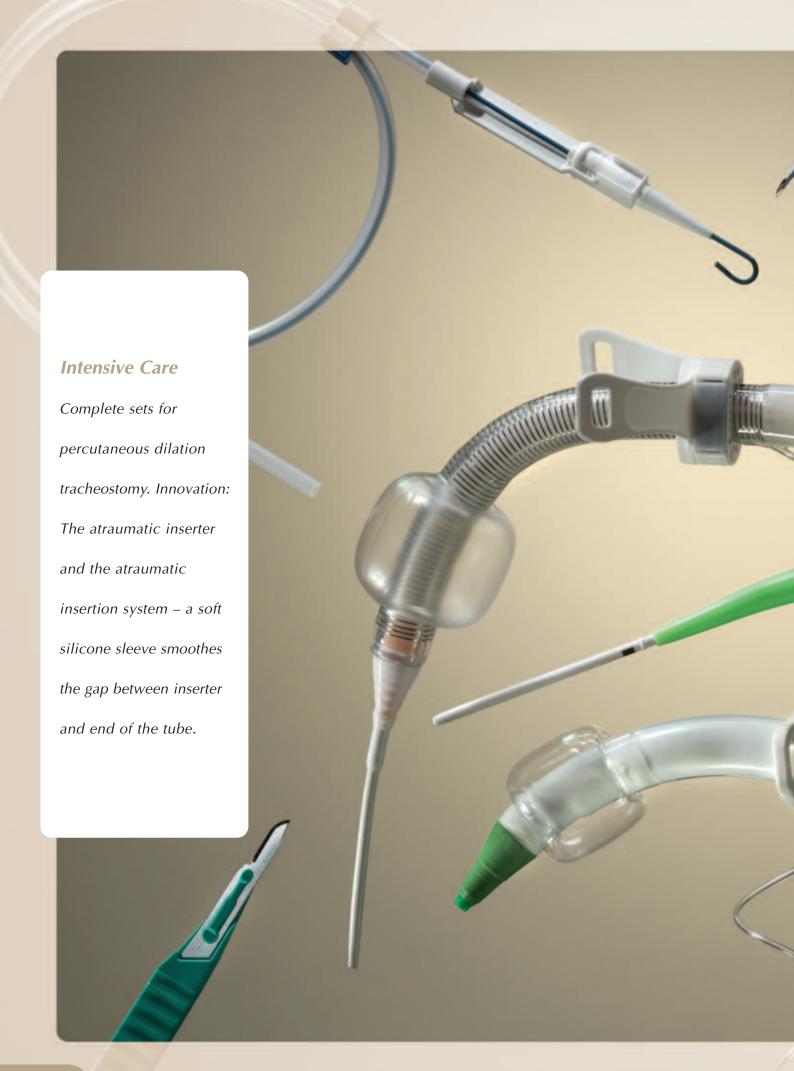
Information for distributors, contact information, how to place orders, sales support, etc.



TRACOE *comfort*Tracheostomy Tubes

Made of medical grade, clear polymer material; as therapy tube for long-term use and during rehabilitation.

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A Proven Technique

Percutaneous dilation tracheostomy (PDT) has established itself as a standard procedure in intensive medicine. The Ciaglia technique is the one most widely used. The TRACOE experc system is based on this proven method, so there is no need to learn a new procedure. The sets are tailored to the use of fenestrated and unfenestrated TRACOE twist and unfenestrated TRACOE vario tubes.

The Innovation

How to slide the tube over the insertion instrument into the tracheostoma has always been a major challenge in PDT – one that has never been satisfactorily met. Until now: the TRACOE experc sets deliver the solution in form of the patented atraumatic inserter and the atraumatic insertion system. A soft silicone sleeve at its tip smoothly bridges the gap in diameter between the inserter and the tube. This lets the tube be inserted safely and easily.

Option for Reinsertion

For difficult reinsertion situations, fenestrated and unfenestrated TRACOE *twist* as well as unfenestrated TRACOE *vario* tubes are available in all sizes (07, 08 and 09) – also individually and premounted on the atraumatic inserter.

TRACOE experc Set twist



REF 320

REF 321

REF 322

TRACOE experc Set twist

REF 320 Set in sterile package
See right column for package contents

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

REF 321 Set in sterile package
See right column for package contents

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

REF 322 Set in sterile package
See right column for package contents

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

Package Contents per Set:

1 TRACOE experc Dilatation Set

REF 520

in sterile package (see Page 18)

- Scalpel
- Syringe
- Puncture needle (14 G) with Teflon catheter
- Guide wire (kink restistant NiTiNol) with inserter
- Short dilator 14 CH/FR
- Guiding catheter with safety stop
- TRACOE experc dilator with hydrophilic coating (slides easily after moistening)
- 4 compresses

1 TRACOE twist Tracheostomy Tube with Atraumatic Inserter

REF 301-P in sterile package,

unfenestrated (see Page 12)

or REF 302-P in sterile package,

fenestrated (see Page 12)

or REF 306-P in sterile package,

unfenestrated, with subglottic suction line (see Page 13)



The Innovation:

The unique feature of the TRACOE experc Set *twist* is the atraumatic inserter for placing the tracheostomy tube. 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 level of the neck flange. Once the tube is in the trachea, the inserter is pulled out. In doing so the silicone sleeve flaps back to facilitate its easy removal (Fig. 2).

The Benefits:

- Dilation is performed using the proven Ciaglia technique.
- The atraumatic inserter smoothes over the gap in diameter between the end of the tube and the inserter. This minimizes the risk of injury when inserting the tracheostomy tube into the trachea.
- The stop at the level of the neck flange prevents the inserter from being inserted too far into the tube, which additionally reduces the risk of lesions.
- The separately available tubes with inserter can also be used to reinsert into a percutaneously created tracheostoma and/or change tubes.

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



TRACOE twist Tracheostomy Tube, Unfenestrated, 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

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
- Atraumatic inserter
- Reinsertion tube
- Sterile lubricating gel
- Perforated obturator and wide neck strap

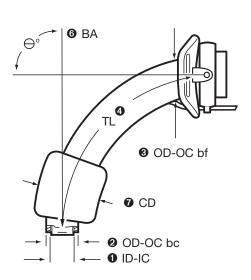


TRACOE *twist* tubes REF 301-P, REF 302-P and REF 306-P as well as TRACOE experc Dilation Set (REF 520) are also available separately.



Each TRACOE *twist* **tube** is supplied with a perforated obturator and a wide adjustable neck strap. The neck strap is also available separately





(REF 903-F).



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



REF 306-P, fenestrated:

As a product variant REF 306-P is also available fenestrated.

REF 306-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 inserter
- Reinsertion tube
- Sterile lubricating gel
- Perforated obturator and wide neck strap (shown on page 12)

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

Size	1D-IC	2 OD-OC bc	3 OD-OC bf	Length	Lengths (mm)		0 CD
	(mm)	(mm)	(mm)	TL	6 AB	(⊖°)	(mm)
07	7.0	10.4	12.0	74	80.5	95	24
08	8.0	11.4	12.7	76	83.0	90	28
09	9.0	12.5	14.2	78	88.5	90	30

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

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

TRACOE experc Set vario



REF 420

REF 421

REF 423

TRACOE experc Set vario

REF 420 Set in sterile package
See right column for package contents

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

REF 421 Set in sterile package
See right column for package contents

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

REF 423 Set in sterile package
See right column for package contents

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

Package Contents per Set:

1 TRACOE experc Dilatation Set

REF 520

ScalpelSyringe

 Puncture needle (14 G) with Teflon catheter

Guide wire (kink restistant NiTiNol) with inserter

- Short dilator 14 CH/FR
- Guiding catheter with safety stop
- TRACOE experc dilator with hydrophilic coating (slides easily after moistening)
- 4 compresses

1 TRACOE vario Tracheostomy Tube

REF 450-P in sterile package,

spiral-reinforced (see Page 16)

in sterile package (see Page 18)

or REF 451-P in sterile package,

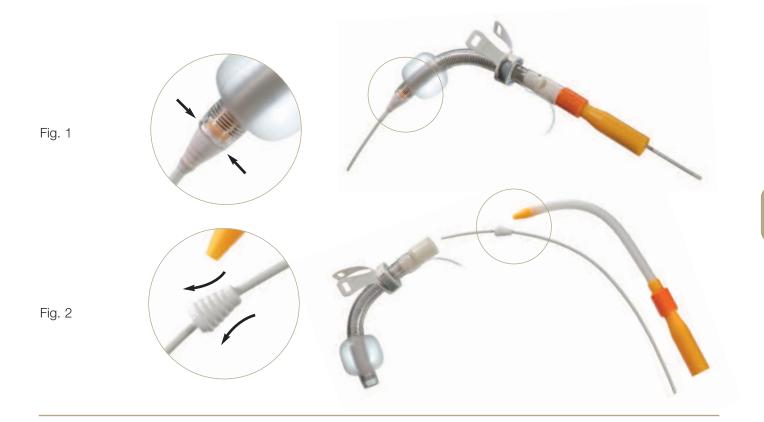
extra-long, spiral-reinforced

(see Page 16)

or REF 460-P in sterile package,

not spiral-reinforced

(see Page 17)



The Innovation:

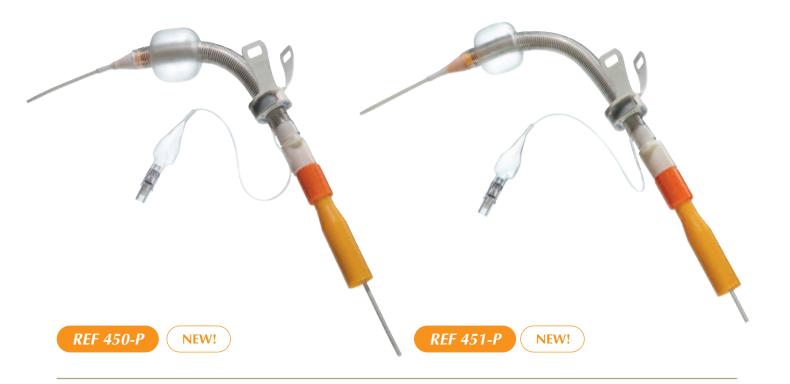
The unique feature of the TRACOE experc Set *vario* is the atraumatic insertion system for placing the tracheostomy tube. The system consists of two parts: the guiding catheter with silicone sleeve and the inserter for stabilization and guidance of the tube. The silicone sleeve smoothly bridges over the gap in diameter between the inserter and the end of the tube thus minimizing the risk of injury when inserting the tracheostomy tube into the trachea (see Fig. 1).

The insertion system also excels with a precise fit into the tube and a stop at the level of the neck flange. 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. The Seldinger guide wire can be removed either prior or together with the guiding catheter (see Fig. 2).

The Benefits:

- Dilation is performed using the proven Ciaglia technique.
- The atraumatic insertion system smoothes over the gap in diameter between the end of the tube and the inserter. This minimizes the risk of injury when inserting the tracheostomy tube into the trachea.
- The stop at the level of the neck flange prevents the inserter from being inserted too far into the tube, which additionally reduces the risk of lesions.
- The separately available tubes with insertion system can also be used to reinsert into a percutaneously created tracheostoma and/or change tubes.

Ordering Information: REF 420, REF 421 and REF 423	Size	REF-No.	Units/package
REF 420 consisting of: 1 TRACOE experc Dilatation Set (REF 520)	07	REF 420-07	1
and 1 TRACOE vario tracheostomy tube, spiral-reinforced, with low	80	REF 420-08	1
pressure cuff and atraumatic insertion system (REF 450-P)	09	REF 420-09	1
REF 421 consisting of: 1 TRACOE experc Dilatation Set (REF 520)	07	REF 421-07	1
und 1 TRACOE vario XL extra-long tracheostomy tube, spiral-reinforced,	80	REF 421-08	1
with low pressure cuff and atraumatic insertion system (REF 451-P)	09	REF 421-09	1
REF 423 consisting of: 1 TRACOE experc Dilatation Set (REF 520)	07	REF 423-07	1
und 1 TRACOE vario tracheostomy tube with low pressure cuff and	08	REF 423-08	1
atraumatic insertion system (REF 460-P)	09	REF 423-09	1



TRACOE vario Tracheostomy Tube with Low Pressure Cuff, Spiral-Reinforced, with Adjustable Neck Flange 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 on page 17)

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

REF 451-P In sterile package

- Cannula with 15 mm connector, extra-long, spiral-reinforced, with cuff, scale and atraumatic insertion system
- Sterile lubricating gel
- Obturator and wide neck strap (shown on page 17)

Reference Numbers and Measurements: REF 451-P

Size	0 ID	9 OD		L	6 CD	6 ВА			
	(mm)	(mm)	Α	C	В	⊗ TL	AB	(mm)	(⊖°)
07	7,0	9,7	35	36	33	104	110	23	100
08	8,0	11,2	37	43	40	120	128	26	100
09	9,0	12,3	38	43	45	126	134	30	100

Reference Numbers and Measurements: REF 450-P and REF 460-P

07	7,0	9,7	33	32	15	80	86	23	100
08	8,0	11,2	35	35	20	90	97	26	100
09	9,0	12,3	38	35	27	100	106	30	100

• ID: inside diameter (clear width) at bottom of cannula; • OD: outside diameter at bottom of cannula; • TL: length along centre line; • AB: length along outer bend; • CD: cuff diameter; • BA: bending angle

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

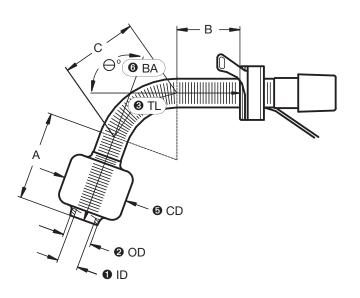


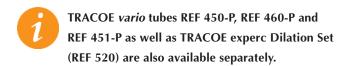
TRACOE vario Tracheostomy Tube with Low Pressure Cuff, Adjustable Neck Flange and Atraumatic Insertion System

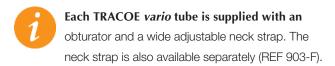
REF 460-P

In sterile package

- Cannula with 15 mm connector, with cuff, X-ray contrast line, scale and atraumatic insertion system
- Sterile lubricating gel
- Obturator and wide neck strap (shown on page 17)









TRACOE experc Dilatation Set



TRACOE experc Dilatation Set for Percutaneous Tracheostomy

REF 520

In sterile package

- Scalpel
- Syringe
- Puncture needle (14 G) with Teflon catheter
- Guide wire (kink restistant NiTiNol) with inserter
- Short dilator 14 CH/FR
- Guiding catheter with safety stop
- TRACOE experc dilator with hydrophilic coating (slides easily after moistening)
- 4 compresses



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

For patients needing ventilation

TRACOE *vario* tracheostomy tube, with low pressure cuff, spiral-reinforced, adjustable neck-flange and pre-mounted atraumatic insertion system (REF 450-P, refer to page 16)

♦ For patients with excessive soft tissue

TRACOE vario XL tracheostomy tube, extra long, with low pressure cuff, spiral-reinforced, with adjustable neck-flange and pre-mounted atraumatic insertion system (REF 451-P, refer to page 16)

For standard ventilation

TRACOE *vario* tracheostomy tube, with low pressure cuff, adjustable neck-flange and pre-mounted atraumatic insertion system (REF 460-P, refer to page 17)

For ventilation followed by rehabilitation

TRACOE *twist* twist tracheostomy tube, unfenestrated, with low pressure cuff and pre-mounted atraumatic inserter (REF 301-P, refer to page 12)

For ventilation followed by rehabilitation – as speaking tube

TRACOE *twist* tracheostomy tube, fenestrated, with low pressure cuff and pre-mounted atraumatic inserter (REF 302-P, refer to page 12)

For ventilation followed by rehabilitation – with subglottic suction line

TRACOE *twist* tracheostomy tube, unfenestrated, with low pressure cuff, subglottic suction line and pre-mounted atraumatic inserter (REF 306-P, refer to page 13)



All TRACOE tracheostomy tubes for the percutaneous tracheostomy are available in size 07, 08 and 09.



Seldinger Guide Wire with Guiding Catheter

REF 517

Set in sterile package

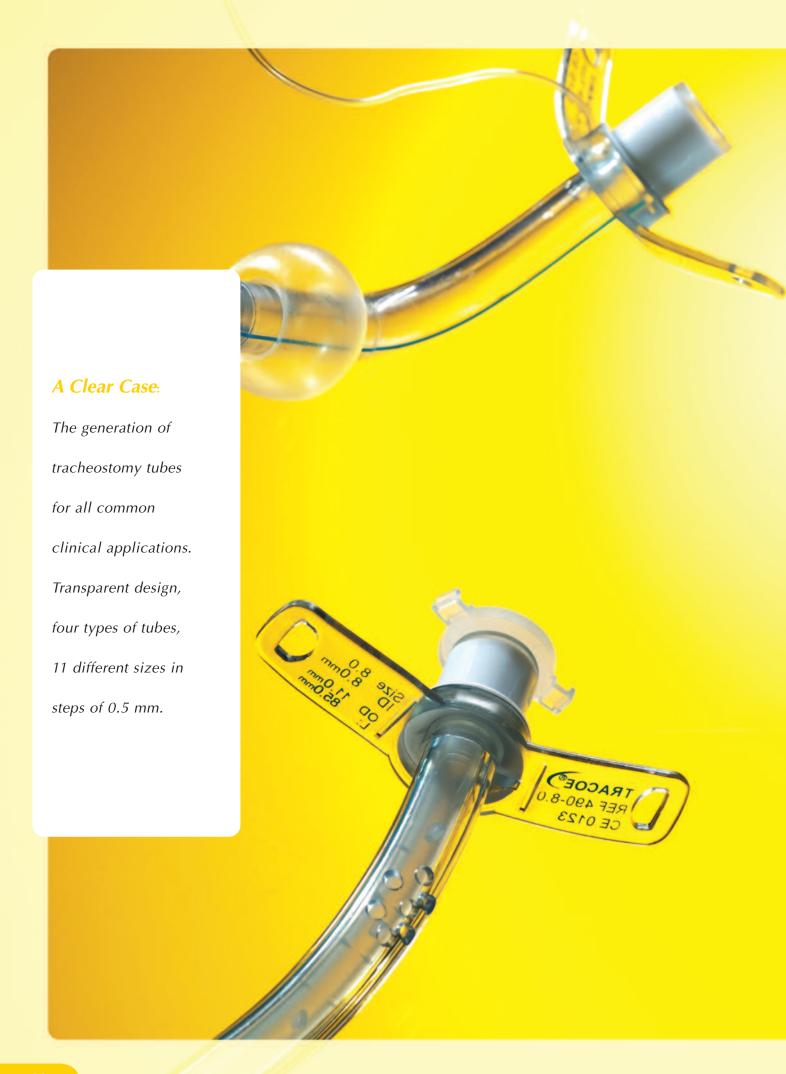
- Seldinger guide wire
- Guiding catheter

Seldinger Guide Wire

REF 518

Pack of 5, supplied in individual sterile packages

Seldinger guide wire







For All Applications

TRACOE *pure* is an advanced, innovative line of tubes for all standard inpatient applications. This product group of TRACOE top-quality tracheostomy tubes includes cuffed and uncuffed, fenestrated and unfenestrated models.

Large Range of Sizes

TRACOE *pure* tubes are supplied in a very wide range of finely staggered sizes, in steps of 0.5 mm. This permits selection of the right tube for a precise fit in any anatomical situation.

Proven TRACOE Specifications

TRACOE *pure* tracheostomy tubes also include many proven TRACOE specifications: e.g. the transparent design for easier detection of soiling or multiple fenestration to prevent lesions of the posterior tracheal wall when inserting the suction catheter.

TRACOE *pure* – **Tracheostomy Tubes**







Colour Coding



Colour Coding

Tracheostomy Tube with Low Pressure Cuff

REF 480

In sterile package

- Cannula with cuff
- Perforated obturator
- Wide neck strap

Tracheostomy Tube, Fenestrated, with Low Pressure Cuff

REF 485

In sterile package

- Cannula, fenestrated, with cuff
- Perforated obturator
- Wide neck strap



TRACOE *pure* Colour Coding:

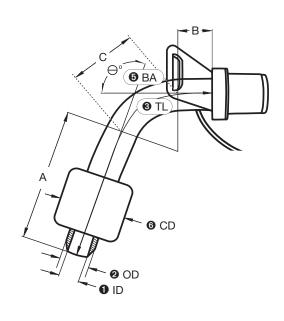


The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



Accessory for TRACOE pure Tubes:

- Speaking valves and artificial noses (for details see page 72 und 73)
- REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- REF 518, Seldinger guide wire (for details see page 19)







REF 490



Colour Coding

REF 495



Colour Coding

Tracheostomy Tube

REF 490

In sterile package

- Cannula
- Perforated obturator
- Wide neck strap

Tracheostomy Tube, Fenestrated

REF 495

In sterile package

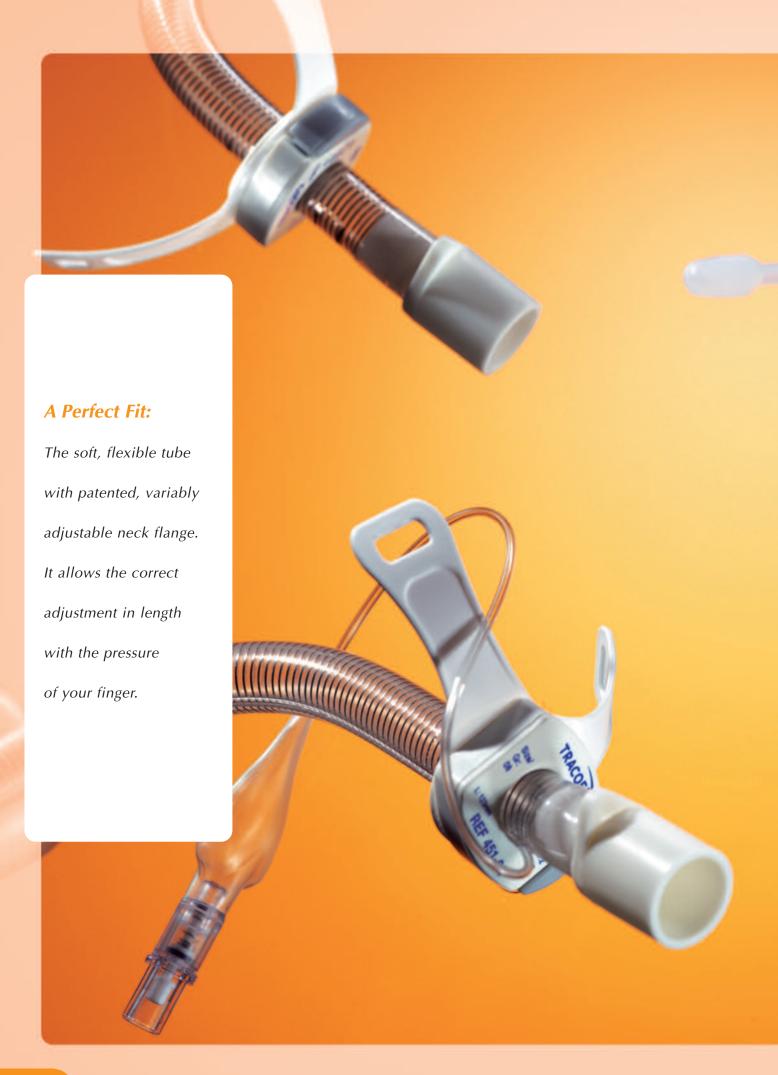
- Cannula, fenestrated
- Perforated obturator
- Wide neck strap

Reference Numbers and Measurements: REF 480, REF 485, REF 490 and REF 495

Size	O ID	2 OD			Lengths	s (mm)		3 BA	© CD
	(mm)	(mm)	Α	C	В	⊙ TL	AB	(⊖°)	(mm)
5.0	5.0 ± 0.2	6.7 ± 0.2	32	22	10	64 ± 2	69	95 -100	17
5.5	5.5 ± 0.2	7.4 ± 0.2	32	25	10	67 ± 2	74	95 -100	17
6.0	6.0 ± 0.2	8.4 ± 0.2	33	25	12	70 ± 2	77	95 -100	20
6,5	6.5 ± 0.2	9.1 ± 0.2	33	28	12	73 ± 2	80	95 -100	20
7.0	7.0 ± 0.2	9.8 ± 0.2	33	29	14	76 ± 2	85	95 -100	22
7.5	7.5 ± 0.2	10.3 ± 0.2	34	33	14	81 ± 2	89	95 -100	22
8.0	8.0 ± 0.2	11.0 ± 0.2	35	34	16	85 ± 2	94	95 -100	24
8.5	8.5 ± 0.2	11.5 ± 0.2	36	36	16	88 ± 2	97	95 -100	24
9.0	9.0 ± 0.2	12.0 ± 0.2	38	37	17	92 ± 2	100	95 -100	26
9.5	9.5 ± 0.2	12.5 ± 0.2	40	39	17	96 ± 2	106	95 -100	26
10.0	10.0 ± 0.2	13.0 ± 0.2	41	39	18	98 ± 2	109	95 -100	28

1 ID: inside diameter (clear width) at bottom of tube; 2 OD: outside diameter at bottom of tube; 3 TL: length along centre line; 4 AB: length along outer bend; 5 BA: bending angle; 5 CD: cuff diameter (REF 480 and REF 485)

► To order, specify: REF + size (e.g. REF 480-5.0).







Patented

TRACOE *vario* – the soft, 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). This technique improves safety, since the flange is fixed immediately after its release. Since no screw top is used,

no pressure of any kind will be exerted on the trachea. A scale ensures the exact positioning of the flange.

Variably Adjustable



There are also pliable wings on the flange that can be rotated independently of one another (b). This provides additional possibilities for meeting the unique anatomical requirements of each patient.

Anatomically Correct Adjustment

TRACOE *vario* comes in six different versions: reinforced with a metal spiral or made of clear, nonreinforced plastic (with an X-ray contrast line), and each of these two types is available with or without low pressure cuff. Tubes with special features are the extra-long TRACOE *vario* XL with metal spiral and low pressure cuff, and TRACOE *vario* extract in clear plastic, with low pressure cuff and subglottic suction line.

TRACOE *vario* – **Tracheostomy Tubes**





REF 455



Colour Coding

Tracheostomy Tube with Low Pressure Cuff, Spiral-Reinforced, with Adjustable Neck Flange

REF 450 In sterile package

- Cannula with 15 mm connector, spiral-reinforced, with cuff and scale
- Obturator and wide neck strap

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



TRACOE *vario* Colour Coding:

- S REF 450 S REF 455 REF 460 REF 465
- REF 470 REF 451

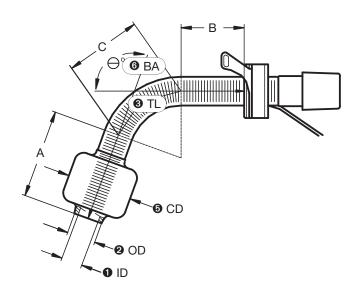
The colour coding is conspicuously printed on each box. This helps you organise your inventory and quickly and reliably locate the right tube.



Each TRACOE vario tube is supplied with an

obturator and a wide adjustable neck strap. The neck strap is also available separately (REF 903-F).







Tracheostomy Tube with Low Pressure Cuff and Adjustable Neck Flange

REF 460 In sterile package

- Cannula with 15 mm connector, with cuff,
 X-ray contrast line and scale
- Obturator and wide neck strap (shown on page 26)

Tracheostomy Tube with Adjustable Neck Flange

REF 465

in sterile package

- Cannula with 15 mm connector, with X-ray contrast line and scale
- Obturator and wide neck strap (shown on page 26)

Reference Numbers and Measurements: REF 450, REF 455, REF 460 and REF 465

Size	0 ID	2 OD		Le	6 CD	6 BA			
	(mm)	(mm)	Α	C	В	⊗ TL	AB	(mm)	(⊖°)
06	6.0	8.2	30	28	12	70	76	18	100
07	7.0	9.7	33	32	15	80	86	23	100
08	8.0	11.2	35	35	20	90	97	26	100
09	9.0	12.3	38	35	27	100	106	30	100
10	10.0	13.7	38	37	35	110	120	32	100
11	11.0	14.8	38	37	35	110	121	34	100

• ID: inside diameter (clear width) at bottom of cannula; • OD: outside diameter at bottom of cannula; • TL: length along centre line; • AB: length along outer bend; • CD: cuff diameter (REF 450 and REF 460); • BA: bending angle

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



TRACOE vario extract

Tracheostomy Tube with Low Pressure Cuff, Suction Line and Adjustable Neck Flange

REF 470

In sterile package

- Cannula with 15 mm connector, with cuff, X-ray contrast line, scale and subglottic suction line
- 2 connectors for suction pump
- Obturator and wide neck strap (shown on page 26)

Reference Numbers and Measurements: REF 470

Size	O ID	2 OD		Len	gths (mm)		6 CD	6 ВА
	(mm)	(mm)	Α	C	В	© TL	4 AB	(mm)	(⊖°)
07	7.0	9.7	33	32	15	80	86	23	100
08	8.0	11.2	35	35	20	90	97	26	100
09	9.0	12.3	38	35	27	100	106	30	100
10	10.0	13.7	38	37	35	110	120	32	100

- ID: inside diameter (clear width) at bottom of cannula; ② OD: outside diameter at bottom of cannula; ③ TL: length along centre line; ④ AB: length along outer bend; ⑤ CD: cuff diameter; ⑤ BA: bending angle
- Please refer to the figure on page 26.
- ► To order, specify REF + size (e.g. REF 470-07).

REF 470: 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 channel is integrated in the wall of the tube thus it will not exert any pressure. This prevents pressure necroses in the tracheostoma.
- The suction channel has an opening above the cuff, and is connected at the machine end to a suction tube. Via this tube, secretions can be suctioned off either intermittently with the aid of a syringe (Luer connector) or using one of the included connectors fitting with a suction pump.
- The variably adjustable neck flange with rotating wings permits universal adjustment to any neck anatomy (e.g. swollen necks, postoperative edema, asymmetrical necks).

TRACOE vario - Tracheostomy Tube, extra-long



REF 451



TRACOE vario XL

Extra-Long Tracheostomy Tube with Low Pressure Cuff, Spiral-Reinforced, with Adjustable Neck Flange

REF 451

In sterile package

- Cannula with 15 mm connector, spiral-reinforced, with cuff and scale
- Obturator and wide neck strap (shown on page 26)

Reference Numbers and Measurements: REF 451

Size	O ID	9 OD		Len	gths (ı	mm)		6 CD	6 ВА
	(mm)	(mm)	Α	C	В	1 TL	4 AB	(mm)	(⊖°)
07	7.0	9.7	35	36	33	104	110	23	100
08	8.0	11.2	37	43	40	120	128	26	100
09	9.0	12.3	38	43	45	126	134	30	100
10	10.0	13.7	38	52	45	135	146	32	100

- ID: inside diameter (clear width) at bottom of cannula; ② OD: outside diameter at bottom of cannula; ③ TL: length along centre line; ④ AB: length along outer bend; ⑤ CD: cuff diameter; ⑥ BA: bending angle
- Please refer to the figure on page 26.
- ► To order, specify REF + size (e.g. REF 451-07).



Accessory for TRACOE vario Tubes:

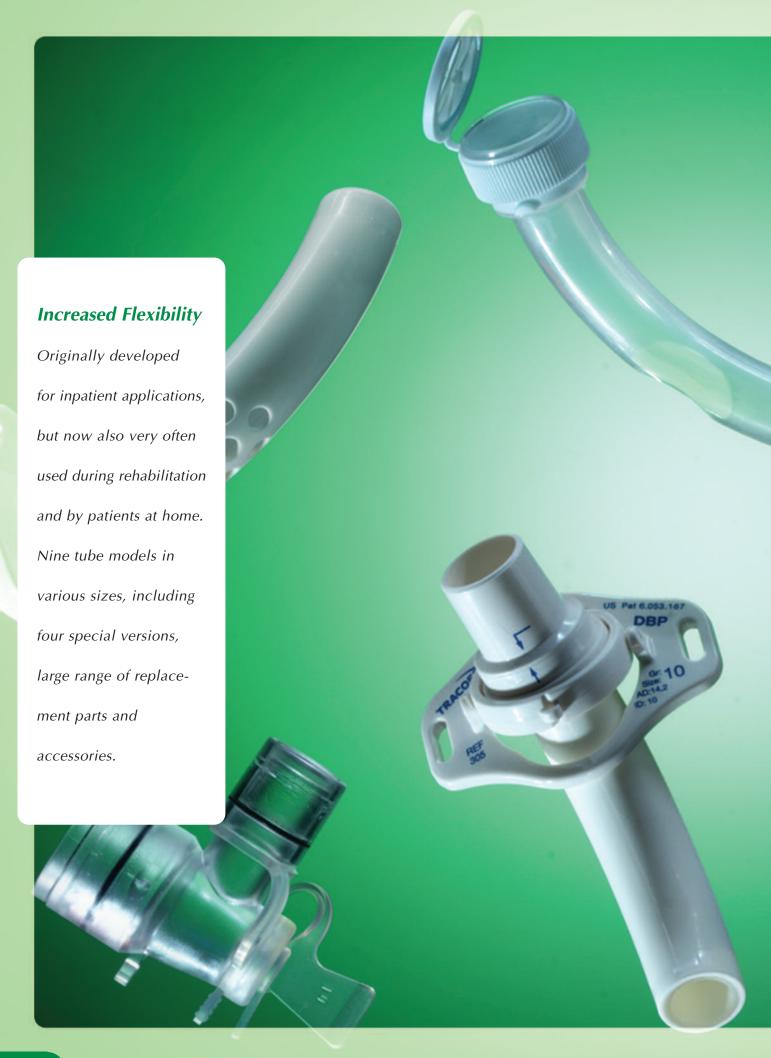
- Speaking valves and artificial noses (for details see page 72 und 73)
- REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- REF 518, Seldinger guide wire (for details see page 19)



REF 450-P, REF 451-P and REF 460-P:

TRACOE *vario* tracheostomy tubes with atraumatic insertion system. For details refer to page 16 and 17.







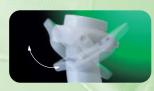


Tissue-Friendly

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

The most outstanding feature of TRACOE twist is an





anatomically shaped neck flange that moves around two axes: vertically and horizontally. This allows patients to turn their head and neck freely without the tube exerting pressure on the trachea. TRACOE *twist* tubes have thin walls, which ensure maxi-

mum air flow. The material of the low pressure cuff is thin and ensures optimal sealing of the trachea.

Maximum Cost-Effectiveness

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

TRACOE *twist* – Tracheostomy Tubes





Tracheostomy Tube with Low Pressure Cuff

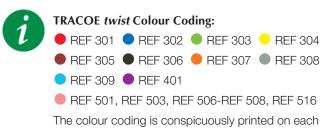
REF 301 In sterile package

- Outer cannula with cuff
- 2 inner cannulas with 15 mm connector
- Perforated obturator and wide neck strap

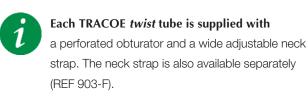
Fenestrated Tracheostomy Tube with Low Pressure Cuff

REF 302 In sterile package

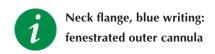
- Outer cannula, fenestrated, with cuff
- Inner cannula with 15 mm connector
- Inner cannula, fenestrated, with 15 mm connector
- Occlusion cap for 15 mm connector
- Perforated obturator and wide neck strap

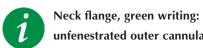


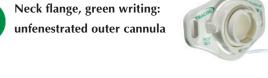
box. This helps you organise your inventory and quickly and reliably locate the right tube.











REF 301-P, REF 302-P and REF 306-P: TRACOE twist tracheostomy tubes with atraumatic inserter. For details see

page 10 to 13.





Tracheostomy Tube

REF 303 In sterile package

- Outer cannula
- 2 inner cannulas with 15 mm connector
- Perforated obturator and wide neck strap (shown on page 32)

Fenestrated Tracheostomy Tube

REF 304

In sterile package

- Outer cannula, fenestrated
- Inner cannula with 15 mm connector
- Inner cannula, fenestrated, with 15 mm connector
- Occlusion cap for 15 mm connector
- Perforated obturator and wide neck strap (shown on page 32)



The reference numbers and measurements for REF 301 to REF 304 can be found on the table on page 35.

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 32)

Reference Numbers and Measurements: REF 305

Size	O ID-IC	Q OD-OC	OD-OC	Length	ns (mm)	6 BA
	(mm)	bc (mm)	bf (mm)	4 TL	AB	(⊖°)
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 AB: length along outer bend from start of neck flange to bottom of tube; ⑥ BA: bending angle
- Please refer to the figure on page 34.
- ► To order, specify: REF + size (e.g. REF 305-05).





Tracheostomy Tube with Low Pressure Cuff and Suction Line

REF 306

In sterile package

- Outer cannula with cuff and subglottic suction line
- 2 inner cannulas with 15 mm connector
- Perforated obturator and wide neck strap (shown on page 32)

Tracheostomy Tube with Low Pressure Cuff and Oxygen Supply Line

REF 307

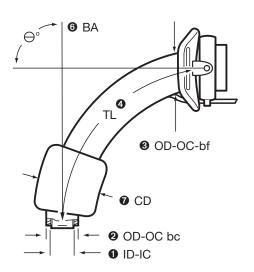
In sterile package

- Outer cannula with cuff and oxygen supply line
- Inner cannula, specially perforated, with 15 mm connector
- Perforated obturator and wide neck strap (shown on page 32)



REF 306, fenestrated:

As a product variant REF 306 is also available fenestrated.







Tracheostomy Tube with Oxygen Supply Line

REF 308 In sterile package

- Outer cannula with oxygen supply line
- Inner cannula, specially perforated, with 15 mm connector
- Perforated obturator and wide neck strap (shown on page 32)

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 32)

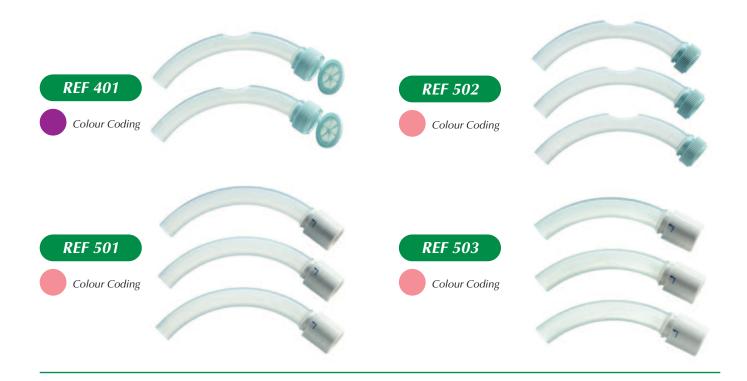
Reference Numbers and Measurements: REF 301-REF 304 and REF 306-REF 309

Size	① ID-IC (mm)	Q OD-OC bc (mm)	OD-OC bf (mm)	Length 4 TL	s (mm) • AB	⑤ BA (⊖°)	7 CD (mm)
04	4.0	7.2	8.6	56	63.0	110	14
05	5.0	8.6	10.1	66	73.0	100	16
06	6.0	9.2	10.8	72	79.5	95	20
07	7.0	10.4	12.0	74	80.5	95	24
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

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

▶ To order, specify: REF + size (e.g. REF 301-04).

TRACOE twist - Spare Parts and Accessories



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

REF 401 2 units supplied in individual sterile packages

The inner cannulas are accessories for tubes REF 302 and REF 304.

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

Spare Inner Cannulas, Unfenestrated, with 15 mm Connector

REF 501 3 units supplied in

individual sterile packages

The inner cannulas are spare parts for tubes REF 301, REF 302, REF 303, REF 304, REF 306 and REF 309. Sizes: 04, 05, 06, 07, 08, 09, 10

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 tubes REF 302 and REF 304.

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

Spare Inner Cannulas, Unfenestrated, with 15 mm Connector

REF 503 3 units supplied in

individual sterile packages

The inner cannulas are spare parts for tube REF 305. Sizes: 05, 06, 07, 08, 09, 10



Accessory for TRACOE twist Tubes:

- Speaking valves and artificial noses
 (for details see page 72 und 73)
- REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- REF 518, Seldinger guide wire (for details see page 19)



All 15 mm connectors, grooved low profile connectors or integrated speaking valves of fenestrated inner cannulas are light blue.



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

REF 506 3 units supplied in

individual sterile packages

The inner cannulas are spare parts for tubes REF 302 and REF 304.

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

Inner Cannulas, Unfenestrated, with Grooved Low Profile Connector (white)

REF 507 3 units supplied in

individual sterile packages

The inner cannulas are accessories for tube REF 303. Sizes: 04, 05, 06, 07, 08, 09, 10

Spare Inner Cannulas, Unfenestrated, Short, with Grooved Low Profile Connector (white)

REF 508 3 units supplied in

individual sterile packages

The inner cannulas are spare parts for tube REF 305. Sizes: 05, 06, 07, 08, 09, 10

Occlusion Caps for 15 mm Connectors (blue)

REF 516 5 units supplied in

individual sterile packages

Occlusion caps for fenestrated tubes with 15 mm connector.







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. 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 Tube for Neonates







Colour Coding



Tracheostomy Tube for Neonates

REF 350

In sterile package

- Cannula
- Obturator and neck strap

Reference Numbers and Measurements: REF 350

Size	0 ID	2 OD	Lengths (mm)					6 ВА
	(mm)	(mm)	Α	C	В	© TL	4 AB	(⊖°)
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

● ID: inside diameter (clear width) of tube; ② OD: outside diameter of tube; ③ TL: length along centre line from start of neck flange to bottom of tube; ④ AB: length along outer bend from start of neck flange to bottom of tube; ⑤ BA: bending angle

► To order, specify REF + size (e.g. REF 350-2.5).



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 and a wide adjustable neck strap. The neck strap is also available separately (REF 903-G).







Special accessories for TRACOE mini,

such as neck strap and compresses, can be found on pages 74 and 81 as part of the TRACOE *care* line of accessories.

TRACOE *mini* – **Tracheostomy Tube for Children**







Colour Coding



Tracheostomy Tube for Children

REF 355

In sterile package

- Cannula
- Obturator and neck strap (shown on page 40)



Product variants REF 355:

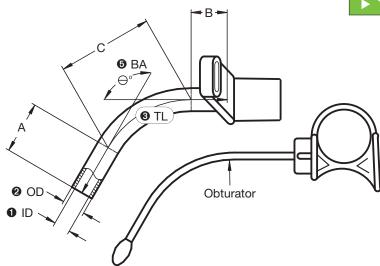
Product variants can be made in order to optimize the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions. Product variations have green writing on the neck flange.

Reference Numbers and Measurements: REF 355

Size	0 ID	2 OD		Leng	gths (mm)		6 ВА
	(mm)	(mm)	Α	C	В	© TL	4 AB	(⊖°)
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

● ID: inside diameter (clear width) of tube; ② OD: outside diameter of tube; ③ TL: length along centre line from start of neck flange to bottom of tube; ④ AB: length along outer bend from start of neck flange to bottom of tube; ⑤ BA: bending angle

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









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 onethird 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, therefore you will always find a tracheostomy tube that fits perfectly.

TRACOE comfort – Tracheostomy Tubes





REF 101

REF 102

Tube without Inner Cannula

REF 101

- Cannula
- Wide neck strap (shown on page 46)
 For acute tracheostomy and emergency care applications.

Tube with Inner Cannula

REF 102

- Outer cannula
- One inner cannula
- Wide neck strap (shown on page 46)

For permanent wearers.



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-REF 105, REF 114, REF 115

Size	0 ID-OC	2 OD-OC	3 OD-OC bf	4 ID-IC	Length	s (mm)
	(mm)	bc (mm)	(mm)	(mm)	6 TL	6 AB
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
14	14.0	16.6	18.2	12.6	91	105

- ID-OC: inside diameter (clear width) at bottom of outer cannula; OD-OC bc: outside diameter at bottom of outer cannula; OD-OC bf: outside diameter of outer cannula behind the flange; ID-IC: inside diameter at bottom of inner cannula; Length TL: length along centre line from start of neck flange to bottom of tube; Length AB: length along outer bend (greatest length)
- The bending angle is 90° in all *comfort* tubes.
- ► To order, specify: REF + size (e.g. REF 105-05).







Tube with Inner Cannulas

REF 102-D

- Outer cannula
- Two inner cannulas
- Wide neck strap (shown on page 46)

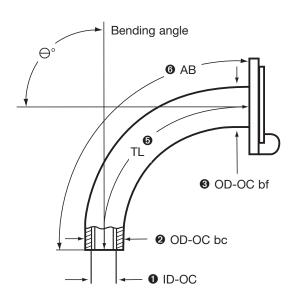
For permanent wearers.

Speaking Tube, Type A

REF 103

- Outer cannula
- Inner cannula with slide-on silver valve type A
- Inner cannula
- Wide neck strap (shown on page 46)

For tracheostomized patients with fully or partially intact larynx.





Product variants:

Product variants can be made in order to optimize the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions.





Speaking Tube, Type A

REF 103-A

- Outer cannula
- Inner cannula with slide-on silver valve type A
- Inner cannula with 15mm connector
- Inner cannula
- Wide neck strap

For tracheostomized patients with fully or partially intact larynx, for speaking

Speaking Tube, Type B

REF 104

- Outer cannula
- Inner cannula with swivel valve type B
- Inner cannula
- Wide neck strap

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



Each TRACOE comfort tube is supplied with an adjustable neck strap. The neck strap is also available separately (REF 903-F).





Accessory for TRACOE comfort Tubes:

- Speaking valves and artificial noses (for details see page 72 und 73)
- REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- REF 518, Seldinger guide wire (for details see page 19)





Speaking Tube, Type B

REF 104-A

- Outer cannula
- Inner cannula with swivel valve type B
- Inner cannula with 15mm connector
- Inner cannula
- ◆ Wide neck strap (shown on page 46)

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

Speaking Tube, Type B

REF 114

- Outer cannula
- Inner cannula with swivel valve type B
- ◆ Inner cannula with 15mm connector
- Wide neck strap (shown on page 46)

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



Tubes with Oxygen Supply Port:

As product variants REF 103, REF 103-A, REF 104 and REF 104-A can be ordered with an oxygen supply port (shown right: REF 103-O and REF 104-O).







REF 105-D

Tube with 15mm Connector

REF 105

- Outer cannula
- ◆ Inner cannula with 15 mm connector
- Wide neck strap (shown on page 46)
 For attaching:

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

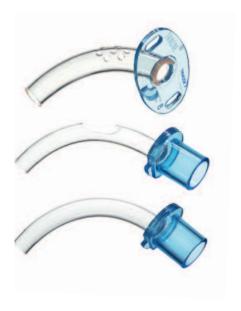
Tube with 15 mm Connector

REF 105-D

- Outer cannula
- ◆ Two Inner cannulas with 15 mm connector
- Wide neck strap (shown on page 46)

For attaching:

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





REF 106-D

Tube, Fenestrated, with 15 mm Connector

REF 115

- Outer cannula, fenestrated
- Inner cannula, fenestrated, with 15 mm connector
- Inner cannula with 15mm connector
- Wide neck strap (shown on page 46)

For attaching:

TRACOE phon assist (e.g. REF 650-T) and TRACOE humid assist (e.g. REF 640-CT). Further information see page 70 to 73.

Laryngectomy Tube

REF 106-D

- Outer cannula, short
- Two inner cannulas, short
- Wide neck strap (shown on page 46)

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	1D-OC (mm)	Q OD-OC bc (mm)	6 OD-OC bf (mm)	4 ID-IC (mm)	Length ⑤ TL	s (mm)
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

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

• The bending angle is 90° in all *comfort* tubes.

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

TRACOE *comfort* – Tracheostomy Tubes, extra-long (Hautant)





REF 201

REF 202

Extra-Long Tube without Inner Cannula

REF 201

- Cannula, extra-long
- Wide neck strap

For acute tracheostomy and emergency care applications.

Extra-Long Tube with Inner Cannula

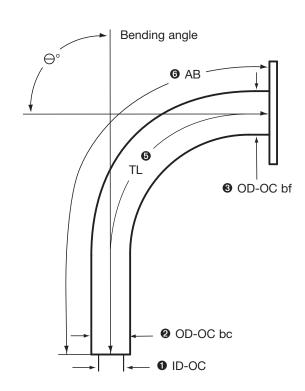
REF 202

- Outer cannula, extra-long
- Inner cannula
- Wide neck strap

For permanent wearers and patients with tracheal stenosis.











Extra-Long Tube with Inner Cannulas

REF 202-D

- Outer cannula, extra-long
- Two inner cannulas
- Wide neck strap

For permanent wearers and patients with tracheal stenosis.

Extra-Long Speaking Tube, Type A

REF 203

- Outer cannula
- Inner cannula with slide-on silver valve type A
- Inner cannula
- Wide neck strap (shown on page 50)

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



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

Reference Numbers and Measurements: REF 201-REF 205

Size	0 ID-OC	2 OD-OC	3 OD-OC	4 ID-IC	Length	s (mm)
	(mm)	bc (mm)	bf (mm)	(mm)	9 TL	6 AB
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

- 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 AB: length along outer bend (greatest length)
- The bending angle is 90° in all *comfort* tubes.
- ► To order, specify: REF + size (e.g. REF 205-05).





Extra-Long Speaking Tube, Type B

REF 204

- Outer cannula
- Inner cannula with swivel valve type B
- Inner cannula
- Wide neck strap (shown on page 50)

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

Extra-Long Speaking Tube, Type B

REF 204-A

- Outer cannula
- Inner cannula with swivel valve type B
- Inner cannula with 15mm connector
- Inner cannula
- Wide neck strap (shown on page 50)

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



Accessory for TRACOE comfort Tubes:

- Speaking valves and artificial noses (for details see page 72 und 73)
- REF 517, Seldinger guide wire with guiding catheter (for details see page 19)
- REF 518, Seldinger guide wire (for details see page 19)



Product variants:

Product variants can be made in order to optimize the functionality and wearing comfort and also for patients with complex anatomical and physiological conditions.



Extra-Long Tube with 15 mm Connector

REF 205

- Outer cannula
- ◆ Inner cannula with 15 mm connector
- Wide neck strap (shown on page 50)

For attaching:

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



Tubes with Oxygen Supply Port:

As product variants REF 203, REF 204 and REF 204-A can be ordered with an oxygen supply port (shown right: REF 203-O and REF 204-O).







TRACOE® technic

High Precision

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 $_2$ O) for quick and easy measurements. The usual pressure range for the application is coloured green.

Second, the fully automatic TRACOE cpc cuff pressure control. It continuously monitors and regulates the pressure in the low pressure cuffs of tracheostomy and endotracheal tubes. Visual and audible alarms warn of leaks or overpressure. TRACOE cpc is compact and lightweight, straightforward and practical to use. It reduces the workload of hospital nursing staff.

TRACOE *technic* – Precision Medical Devices



TRACOE cuff pressure control

REF 701

- TRACOE cuff pressure control
- Transformer
- 3 connection tubes with integrated hydrophobic bacteria filter, each one in sterile package, length: 2 m
- 1 TRACOE twist tracheostomy tube with low pressure cuff

A fully automatic, precision device for continuous monitoring and control of the pressure in the low pressure cuffs of tracheostomy and endotracheal tubes.

The device contains a sensor-controlled pump for long-term, precise control of low pressure cuffs. It is powered via a transformer or, during patient transport, by a rechargeable battery (for up to 8 hours). Through a mount on the back of the instrument it can be easily attached to an intensive-care bed, stand or operating table.

The device is CE-certified and EMC-tested.

Technical Data on REF 701

Classification	Medical-technical device, Class IIB, active, with measuring and control function
Power supply	12 V
Protection rating	II
Operating voltage	5 V
Power consumption	Idling (pump off, valves off): 0.08 W Full power (pump and valves active): 0.65 W
Battery	9 V, 150 mAh for NiCd and 9 V, 170 mAh for NiMH
Battery display	graphic (empty, weak, medium, full)
Battery operating time	8 hours
Battery charging time	6-8 hours
Pressure display	digital
Control range	5 to 100 mbar
Control precision	± 1 mbar over the entire control range
Pressure display precision	± 1 mbar
Max. internal cuff pressure	100 mbar
Maximum vacuum	- 250 mbar
Alarm functions	Audible and visible signal: ◆ if the pressure cannot be compensated within 10 seconds ◆ in the event of leakages ◆ in case of a pressure increase of > 100 mbar ◆ if the battery is almost flat ◆ if the mains connector is unplugged or there is a power failure
Pneumatic device connection	Bayonet connector
Device dimensions	Height: 100 mm, width: 150 mm, depth: 60 mm
Weight	350 g (incl. battery)

TRACOE Power Pack (REF 704)

Power supply	100-240V, 50-60Hz
Protection rating	II

Ambient Conditions

Storage condition	s Temperature -40 to +70°C, relative air humidity 10-95%
Operating condition	ons Temperature 10 to 40°C, relative air humidity 10-95%



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 cmH₂O
- 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:

REF 702 10 units supplied in

individual sterile packages

Tube for connecting a tracheostomy or endotracheal tube. With Luer lock connectors. Length: 1 m

REF 703 10 units supplied in

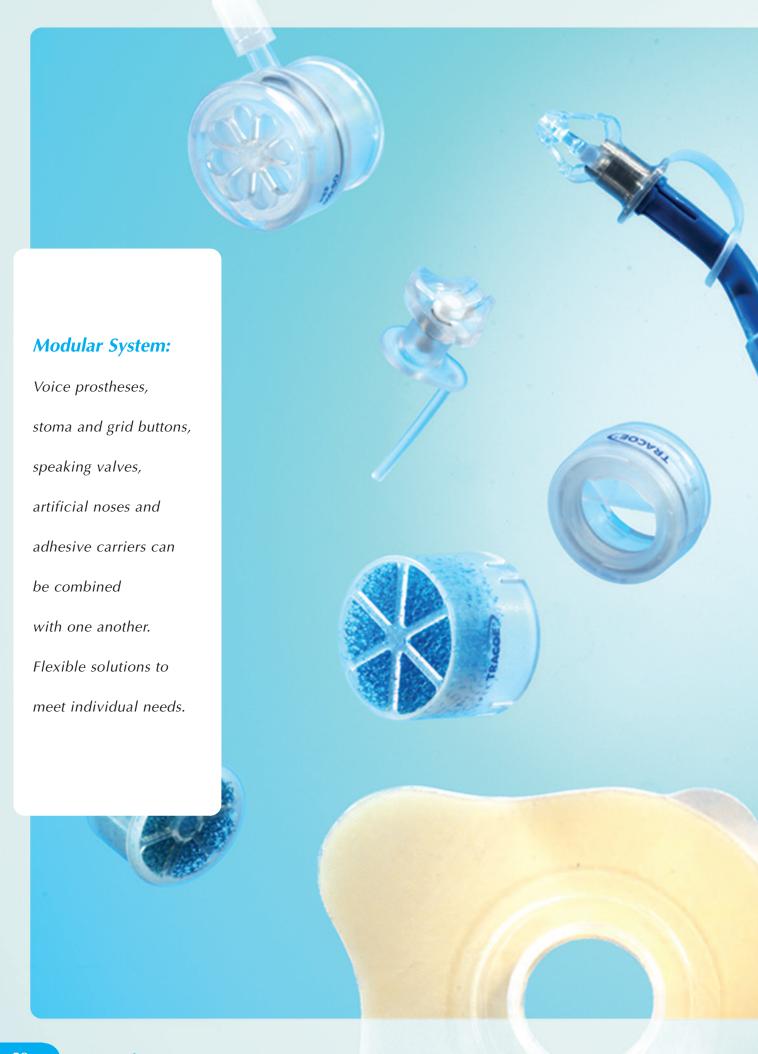
individual sterile packages

Tube for connecting a tracheostomy or endotracheal tube. With Luer lock connectors. Length: 2m

for REF 701, TRACOE cuff pressure control: REF 703-A 10 units supplied in

individual sterile packages

Connecting tube with integrated hydrophobic bacteria filter for connecting a tracheostomy or endotracheal tube. With bayonet and Luer lock connectors. Length: 2m







Individual Solutions

TRACOE *larynx* is a modular system that is specifically geared to meet the needs of laryngectomized and tracheostomized patients in the hospital, during rehabilitation and homecare. It consists of five main products.

TRACOE voice prostheses (shunt valves) TRACOE VoiceMaster and TRACOE VoiceMaster Primo allow laryngectomized patients to speak.

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

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

TRACOE stoma buttons 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 laryngectomized or tracheostomized patients to attach heat/moisture exchangers (HMEs) humid assist II or the speaking valves phon assist I and phon assist II.

TRACOE *larynx* – Voice Prostheses





REF 670

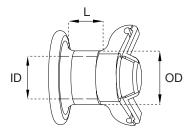
REF 671

REF 671-A

TRACOE VoiceMaster Voice Prosthesis

REF 670

Set in sterile package

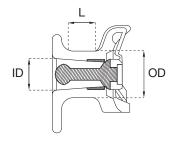


- 1 TRACOE VoiceMaster voice prosthesis
- 1 inserter
- 5 cleaning swabs
- 1 sachet of lubricating gel

For voice rehabilitation subsequent to total laryngectomy. Using a special inserter, the prosthesis is front-loaded into the healed tracheo-oesophageal fistula. Patients can have it inserted, removed, cleaned, checked or exchanged while awake on an outpatient basis.

TRACOE VoiceMaster Primo Voice Prosthesis

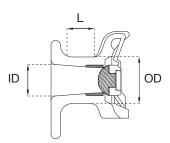
REF 671



1 unit supplied in sterile package

with centering pin on ball valve

REF 671-A



1 unit supplied in sterile package

without centering pin on ball valve

◆ 1 TRACOE VoiceMaster Primo Voice Prosthesis For surgical voice rehabilitation subsequent to total laryngectomy. After primary or secondary tracheooesophageal puncture, the prosthesis is inserted retrograde into the fistula with the aid of a guide wire (REF 683).

TRACOE larynx - Voice Prostheses Accessories





Benefits of TRACOE Voice Prostheses:

- The ball valve is especially designed to be selfcentering to ensure optimum sealing and air tightness.
- The valve opens in response to only slight pressure.

Therefore only little force is needed to speak.

- The ball valve's favourable aerodynamics allow easy modulation of the speaking volume.
- The ball valve and counterbearing are made of Candidaresistant materials. This ensures the valve will continue sealing properly for a long time.

Reference Numbers and Measurements: REF 670 (only up to size 10), REF 671, REF 671-A

(FR)
24
24
24
24

L: length; ID: inside diameter; OD: outside diameter

▶ To order, specify: REF + size (e.g. REF 670-06).

TRACOE VoiceMaster Inserter

REF 675 1 uni

For inserting and removing TRACOE VoiceMaster voice prosthesis (REF 670).

Available in sizes: 06, 08 and 10

TRACOE VoiceMaster Fistula Dilator

REF 679 1 unit

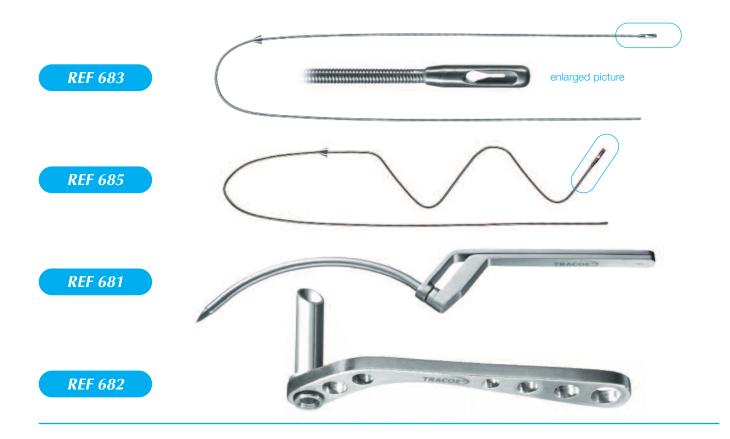
For enlarging the tracheo-oesophageal fistula or temporarily closing it to prevent fluids from passing from the oesophagus into the trachea. Made of soft, medical-grade silicone.

Diameter: 16-22 French/CH (5.3-7.3 mm)

TRACOE VoiceMaster Fistula Length Gauge

REF 680 1 unit

For measuring the length of the tracheo-oesophageale fistula to select an appropriately sized voice prosthesis.



(without picture)

Spare Flanges for TRACOE VoiceMaster
Fistula Length Gauge
REF 680-A 5 units

For single use.

TRACOE VoiceMaster Guide Wire

REF 683 1 unit

For retrograde insertion of the TRACOE VoiceMaster Primo (REF 671 and REF 671-A) following primary or secondary tracheo-oesophageal puncture. Made of stainless steel, autoclaveable.

Prof. Lichtenberger Guide Wire

REF 685 1 unit

For retrograde insertion of the TRACOE VoiceMaster Primo (REF 671 and REF 671-A) following primary or secondary tracheo-oesophageal puncture. Keeps its given bend. Made of stainless steel, autoclaveable.

TRACOE VoiceMaster Trocar with Cannula

REF 681 1 unit

For creating a fistula by primary or secondary tracheooesophageal puncture. Autoclaveable.

TRACOE VoiceMaster Pharynx Guard

REF 682 1 unit

To prevent perforation of the posterior oesophageal wall during primary tracheo-oesophageal puncture using the trocar with cannula (REF 681). The handle rotates for left- or right-handed use. Autoclaveable.

(without picture)

Spare O-Rings for TRACOE VoiceMaster
Pharynx Guard
REF 682-A 5 units



Angled Forceps

REF 678 1 unit

For cleaning TRACOE VoiceMaster (REF 670) and TRACOE VoiceMaster Primo (REF 671 and REF 671-A) voice prostheses around the tracheal flange. Made of stainless steel, autoclaveable.

TRACOE Cleaning Pipette

REF 676 1 unit

For cleaning and rinsing TRACOE VoiceMaster Primo (REF 671 and REF 671-A) voice prostheses.

Lubricating Gel

REF 677 30 sachets

For lubricating TRACOE VoiceMaster voice prostheses (REF 670) to facilitate insertion into the tracheo-oeso-phageal fistula.

TRACOE VoiceMaster Plug

REF 684 1 unit with

3 TRACOE tube clean

cleaning swabs (REF 935)

For temporarily closing TRACOE VoiceMaster (REF 670) and TRACOE VoiceMaster Primo (REF 671 and REF 671-A) voice prostheses. Insert the stick of a TRACOE cleaning swab into the depression on the back of the plug to guide it into the voice prosthesis. The plug is made of medical-grade silicone.

The Modular System



Speaking valves and heat/moisture exchanger (artificial noses/HMEs) can be attached to different support systems, depending on requirements and

indications. This modular system permits flexible solutions to suit individual patients.

Speaking valves



phon assist I REF 650-S



phon assist I with oxygen supply port REF 650-SO



phon assist II REF 655-S

Carrier: stoma buttons and adhesive carriers



grid button REF 601, REF 602, REF 603



stoma button REF 611, REF 612, REF 613



Adhesive Carrier REF 660, REF 661

Heat/moisture exchanger (HMEs)



humid assist I REF 640-S



humid assist II REF 645

Possible Combinations



TRACOE grid button

(REF 601, REF 602, REF 603)



TRACOE stoma button

(REF 611, REF 612, REF 613)



TRACOE 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)

TRACOE larynx – stoma buttons



TRACOE grid button

REF 601/REF 602/REF 603

1 unit supplied in sterile package with 1 neck strap

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

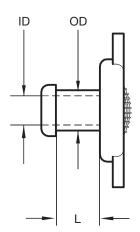
Sizes: 06, 07, 08, 09, 10, 11, 12

TRACOE stoma button

REF 611/REF 612/REF 613

1 unit supplied in sterile package

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



Reference Numbers and Measurements: REF 601-REF 603 and REF 611-REF 613

			short REF 601 REF 611	standard REF 602 REF 612	long REF 603 REF 613		
Size	ID (mm)	OD (mm)	Length (mm)	Length (mm)	Length (mm)		
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: ins	ID: inside diameter; OD: outside diameter; L: length						
► To o	► To order, specify: REF + size (e.g. REF 601-06).						

TRACOE larynx – stoma button Accessories



Stopper

REF 621 5 units supplied in sterile package

For TRACOE buttons. To temporarily seal the button in patients with unobstructed upper airways and unrestricted breathing.

Caution:

Not for use by laryngectomized patients.

TRACOE humid assist I

REF 640-S 50 units individually packaged in cleanroom

Heat/moisture exchanger (HME, artificial nose) with flat base for insertion in TRACOE buttons and TRACOE adhesive carriers (REF 660 and REF 661). Fits all sizes.

TRACOE phon assist I

REF 650-S 1 unit supplied in sterile package

Speaking valve, continuously adjustable, with flat base. For insertion in TRACOE buttons and TRACOE adhesive carriers (REF 660 and REF 661). Air supply from the side allows an individually adjustable airway resistance.

Caution:

Not for use by laryngectomized patients.

TRACOE phon assist I with Oxygen Supply Port

REF 650-SO 1 unit supplied in sterile package

Speaking valve, continuously adjustable, with flat base, oxygen supply port and cap. For insertion in TRACOE buttons and TRACOE adhesive carriers (REF 660 and REF 661). Air supply from the side allows an individually adjustable airway resistance.

Caution:

Not for use by laryngectomized patients.



TRACOE humid assist II

REF 645 50 units individually packaged in cleanroom

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

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, continuously adjustable, for attachment to TRACOE adhesive carriers (REF 660 and REF 661) or grid and stoma buttons (REF 601-REF 603 and REF 611-REF 613).

Fits all sizes.

Caution:

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

TRACOE Adhesive Carrier Hydrocolloid

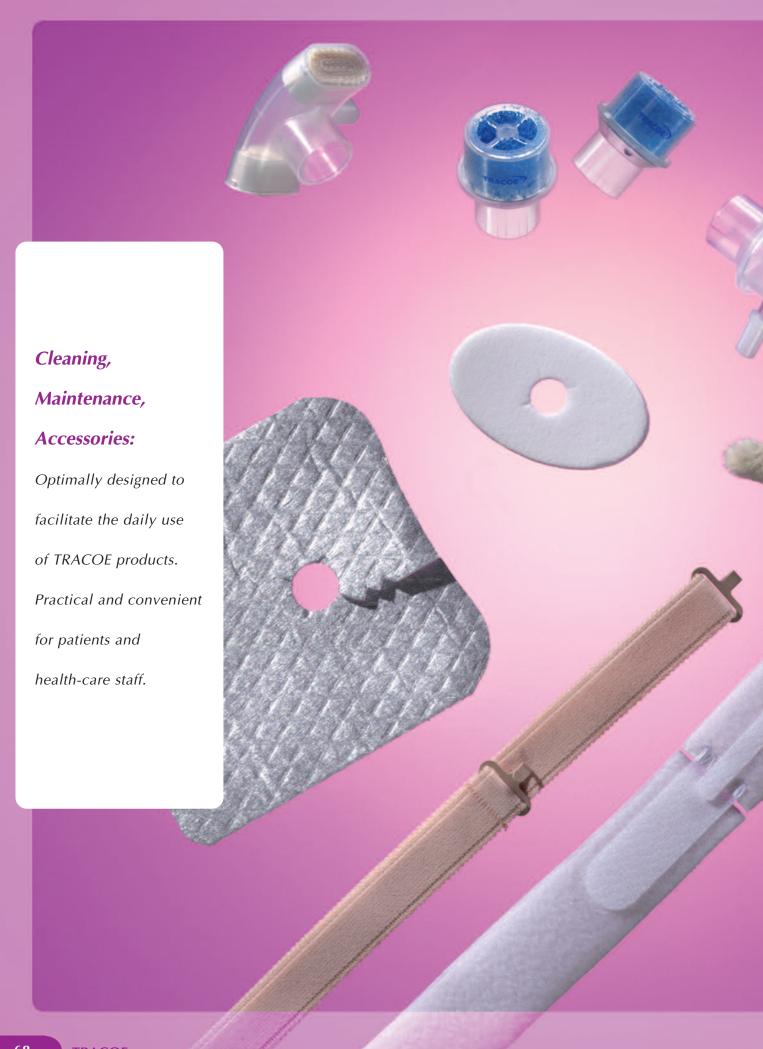
REF 660

20 units individually packaged
For affixing onto the tracheostoma. With anallergenic
hydrocolloid coating, particularly suitable for patients
with sensitive skin. With 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 heat/moisture exchanger TRACOE humid assist II
(REF 645).

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. With 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 heat/moisture exchanger TRACOE humid assist II
(REF 645).





TRACOE® care

As Comfortable as Possible

Special situations require special solutions. Tracheostomized and laryngectomized patients need accessories that help make daily life with a tracheostomy tube as comfortable as possible.

Wearing, Maintenance, Cleaning, Care

Many products in the TRACOE *care* line of accessories enhance the daily use of tracheostomy tubes, such as speaking valves, HMEs, neck straps, protective scarves and spacers. 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.

The Modular System



Speaking valves and heat/moisture exchanger (artificial noses/HMEs) can be attached to different support systems, depending on requirements and indications. This modular system permits flexible solutions to suit

individual patients. In addition the speaking valve phon asist I with continuously adjustable airway resistance offers new therapeutic options.

Speaking valves



phon assist I REF 650-S



phon assist I with oxygen supply port REF 650-SO



phon assist II REF 655-S



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



humid assist I REF 640-S



humid assist II REF 645



humid assist I REF 640-CT



humid assist III REF 641





humid assist IV REF 642



Carrier: Tubes with 15 mm connector



TRACOE *twist* REF 302, REF 302-P, REF 304



TRACOE *pure* REF 485, REF 495



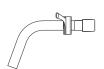
TRACOE comfort REF 115



TRACOE *twist*REF 301, REF 301-P,
REF 303, REF 305 to
REF 309



TRACOE *pure* REF 480, REF 490



TRACOE *vario*REF 450, REF 451,
REF 455, REF 460,
REF 465, REF 470



TRACOE *comfort*REF 103-A, REF 104-A,

REF 114, REF 105, REF 105-D,

REF 204-A, REF 205

Carrier: stoma buttons and adhesive carriers



grid button REF 601, REF 602, REF 603

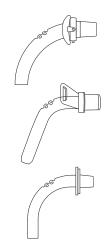


stoma button REF 611, REF 612, REF 613



Adhesive Carrier REF 660, REF 661

Possible Combinations



TRACOE *twist* tube, fenestrated, with 15 mm connector (REF 302, REF 302-P, REF 304)

TRACOE *pure* tube, fenestrated, with 15 mm connector (REF 485, REF 495)

TRACOE *comfort* tube, fenestrated, with 15 mm connector (REF 115)

Each in combination with:

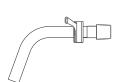
- **♦ phon assist I** (REF 650-T)
- **♦ phon assist I with oxygen supply port** (REF 650-TO)
- **♦ humid assist I** (REF 640-CT)
- **♦ humid assist III** (REF 641)
- humid assist IV (REF 642)
- **♦ phon assist II** (REF 655-T)
- **♦ phon assist II** (REF 655-T) **+ humid assist II** (REF 645)



TRACOE twist tube
with 15 mm connector
(REF 301, REF 301-P, REF 303,
REF 305-REF 309)



TRACOE *pure* tube with 15 mm connector (REF 480, REF 490)



TRACOE *vario* tube with 15 mm connector

(REF 450, REF 451, REF 455, REF 460, REF 465, REF 470, REF 450-P, REF 451-P, REF 460-P)



TRACOE *comfort* tube with 15 mm connector

(REF 103-A, REF 104-A, REF 114, REF 105, REF 105-D, REF 204-A, REF 205)



Caution: Tubes with low pressure cuff have to be deflated before using a speaking valve!

Each in combination with:

- humid assist I (REF 640-CT)
- **◆ humid assist III** (REF 641)
- humid assist IV (REF 642)



TRACOE grid button

(REF 601, REF 602, REF 603)



TRACOE stoma button

(REF 611, REF 612, REF 613)



TRACOE 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)

TRACOE care – Artifical Noses*

* Heat/moisture exchanger, HME, Swedish nose



TRACOE humid assist I

REF 640-CT 50 units individually

packaged in cleanroom

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

Fits all tube sizes.

Fits all tube sizes.

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°.

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 I

REF 640-S

50 units individually

packaged in cleanroom

Heat/moisture exchanger with flat base for insertion in TRACOE buttons and TRACOE adhesive carriers (REF 660 and REF 661).

Fits all tube sizes.

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).

TRACOE phon assist I

REF 650-S

1 unit supplied in sterile package

Speaking valve, infinitely adjustable, with flat base. For insertion in TRACOE buttons and TRACOE adhesive carriers (REF 660 and REF 661). Air supply from the side allows an individually adjustable airway resistance.

Caution:

Not for use by laryngectomized patients.

TRACOE care – Speaking Valves



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 buttons and TRACOE adhesive carriers (REF 660 and REF 661). Air supply from the side allows an individually adjustable airway resistance.

Fits all sizes.

Caution:

Not for use by laryngectomized 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 adhesive carriers (REF 660 and REF 661) or grid and stoma buttons (REF 601-REF 603 and REF 611-REF 613).

Fits all sizes.

Caution:

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

TRACOE phon assist I

REF 650-T 1

1 unit supplied in sterile package

Speaking valve, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector (e.g. REF 302 and REF 304). Air supply from the side allows an individually adjustable airway resistance.

Fits all tube sizes.

TRACOE phon assist I with Oxygen Supply Port REF 650-TO 1 unit supplied in

sterile package

Speaking valve, infinitely adjustable, with oxygen supply port, for attachment to any fenestrated tube with 15 mm connector (e.g. REF 302 and REF 304). Air supply from the side allows an individually adjustable airway resistance.

Fits all tube sizes.

TRACOE phon assist II

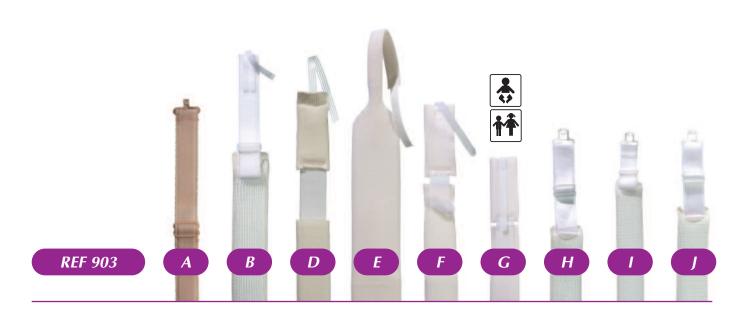
REF 655-T 1 unit supplied in sterile package plus 5 units TRACOE humid assist II (REF 645),

individually packaged in cleanroom

Hands-free speaking valve, infinitely adjustable, for attachment to any fenestrated tube with 15 mm connector (e.g. REF 302 and REF 304).

Fits all tube sizes.

TRACOE care – Accessories



REF 903-A

1 unit

Beige, elastic, with hook

Neck Straps

REF 903
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-l	48	2.5
903-J	36	2.5

REF 903-B	1 unit	White, wide, padded,		
		with hook-and-loop fastener		
REF 903-B-P	10 units	Identical to REF 903-B		
REF 903-D	1 unit	White, wide, elastic,		
		with hook-and-loop fastener,		
		individually adjustable		
REF 903-E	1 unit	White, wide,		
		with hook-and-loop fastener		
REF 903-E-P	10 units	Identical to REF 903-E		
REF 903-F	1 unit	White, wide, consists of two		
		parts, adjustable length,		
		cotton cover,		
		with hook-and-loop fastener		
REF 903-F-P	10 units	Identical to REF 903-F		
REF 903-G	1 unit	White, patted, consists of two		
2 14		parts, adjustable length,		
TT T		with hook-and-loop fastener,		
		for neonates and children		
REF 903-H	1 unit	White, wide, padded, with hook		
REF 903-H-P	10 units	Identical to REF 903-H		
REF 903-I	1 unit	White, long, wide, padded,		
		with hook		
REF 903-I-P	10 units	Identical to REF 903-I		
REF 903-J	1 unit	White, short, wide, padded,		
		with hook		
REF 903-J-P	10 units	Identical to REF 903-J		







REF 902

REF 904

REF 915

Paraffin Oil

REF 902

Lubricates and protects TRACOE *comfort* tubes. Lets inner cannulas be easily inserted and removed. Contents: 25 ml

Tube Spacer

REF 904

Attaches to tube flange of TRACOE *comfort* tubes. It prevents blockage of the tube aperture when the patient is wearing tracheostoma protection.

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 <u>small</u> 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 liqud and <u>small</u> 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)

7

Detailed tips and information on how to clean, disinfect and care for tracheostomy tubes can be found on pages 84 and 85 and in the respective instructions for use.

All articles in the cleaning kits are also

available separately.

REF 931-B

with concentrated cleaning liqud and <u>large</u> cleaning swabs

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

TRACOE care – Cleaning Accessories





REF 932



REF 933

REF 934

TRACOE tube clean Concentrated Cleaning Liquid

REF 933 1 bottle

Liquid cleaning concentrate for cleaning and removing incrustations on tracheostomy tubes and stoma/grid buttons. Rapidly acting.

Contents: 250 ml (for approx. 100 applications)

TRACOE tube clean Cleaning Powder

REF 932 1 tub

Cleaning powder for cleaning and removing incrustations on tracheostomy tubes and stoma/grid buttons. Contents: 400g (for approx. 60 applications)

TRACOE tube clean Cleaning Tub with Mesh Basket

REF 934 1 tub

For tracheostomy tubes and stoma/grid buttons.

Volume: 500 ml



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

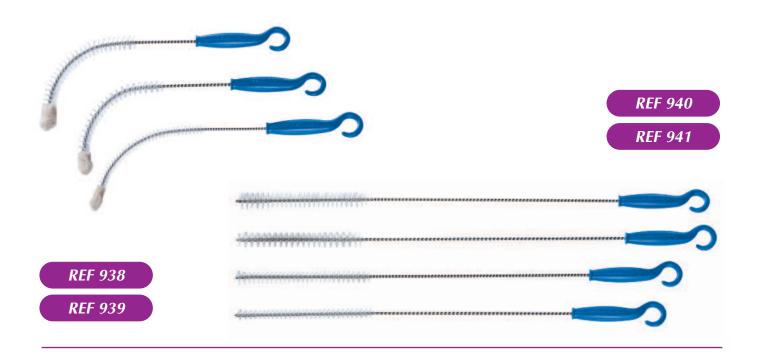
REF 970 Pack of 50

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

Angled Forceps

REF 678 1 unit

To remove incrustations and clean tubes. Made of stainless steel, autoclaveable.



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. Total length: approx. 21 cm.

Art. no.	Bristle- diameter	For tube ID	
REF 938-A	7 mm	5/6mm	
REF 938-B	9mm	7/8 mm	
REF 938-C	11mm	9/10mm	

TRACOE Cleaning Brushes with Wool Tip in a Kit of 5

REF 939

The kit contains:

Quantity	Bristle- diameter	For tube ID	
1 unit	7mm	5/6mm	
2 units	9mm	7/8mm	
2 units	11 mm	9/10mm	

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.

Art. no.	Bristle- diameter	For tube ID	Approx. total length
REF 940-A	7mm	5/6 mm	31.5cm
REF 940-B	9mm	7/8 mm	33.5 cm
REF 940-C	11 mm	9/10mm	36.0 cm
REF 940-D	13mm	11/12mm	36.0 cm

TRACOE Cleaning Brushes for Flexible Tracheostomy Tubes in a Kit of 10

REF 941

The kit contains:

Quantity	Bristle- diameter	For tube ID	Approx. total length
2 units	7mm	5/6 mm	31.5cm
2 units	9mm	7/8 mm	33.5 cm
3 units	11 mm	9/10mm	36.0 cm
3 units	13mm	11/12mm	36.0 cm

TRACOE care – Tracheal Compresses, Nonsterile



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 9.8 cm

TRACOE Moisture Protection

REF 906 Pack of 10

TRACOE moisture protection with zigzag slit prevents moisture from the compress from getting onto clothes. Dimensions: approx. 9 x 9.8 cm

Tracheal Compresses

REF 910-AWithout slitPack of 10REF 910-BWith zigzag slitPack of 10

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

Dimensions: approx. 9 x 9.8 cm

TRACOE Tracheostoma Protection

REF 908 Small VE: 10 Stück

Dimensions: approx. 6 x 6.5 cm

REF 909 Large VE: 10 Stück

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.



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.



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

Two-Ply Tracheal Compresses

REF 907-AWithout slitPack of 10REF 907-BWith zigzag slitPack 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

Fleece Tracheal Compresses

REF 912 Pack of 100

Fluff-free, 4-ply fleece tracheal compresses.

Dimensions: approx.10 x 10 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.

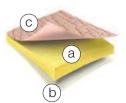
Dimensions: approx. 6.5 x 6.3 cm

TRACOE care - Sterile Tracheostomy Dressing



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.

TRACOE purofoam Tracheostomy Dressing

REF 958 <u>Large</u> 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

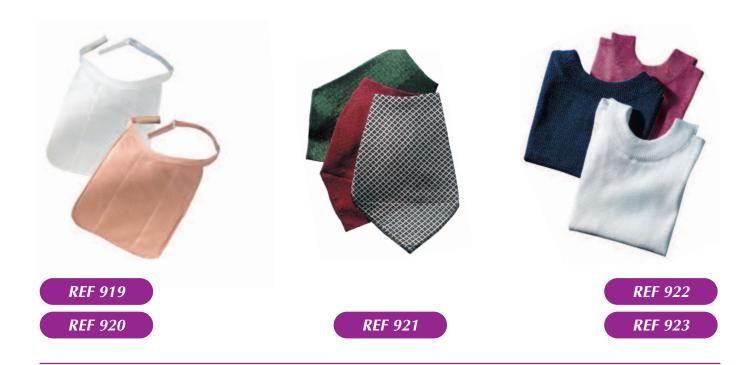
REF 969 Pack of 20 supplied in

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.

TRACOE *care* – **Textile Products**



TRACOE Protective Bibs

	REF 919-A	3-ply	1 unit
Colour: white	REF 919-B	6-ply	1 unit
	REF 919-C	12-ply	1 unit
	REF 920-A	3-ply	1 unit
Colour: beige	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 922Rib knitPleasently ventilated, sportyREF 923Fine knitClassically elegant

REF 922-A	REF 923-A	White	1 unit
REF 922-B	REF 923-B	Grey	1 unit
REF 922-C	REF 923-C	Beige	1 unit
REF 922-D	REF 923-D	Dark green	1 unit
REF 922-E	REF 923-E	Dark blue	1 unit
REF 922-F	REF 923-F	Burgundy	1 unit
REF 922-G	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

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.

Cleaning and Maintenance

The easiest way to clean the tubes is to use the TRACOE tube clean cleaning kits (REF 931-A or REF 931-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. Allow the inner and outer cannulas to air-dry.

Disinfection

If necessary, clean the tubes and then soak them in a disinfectant recommended by TRACOE medical. Afterwards rinse the tubes thoroughly in running water 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 either the TRACOE protective skin cloth (REF 970) or fleece compresses saturated with physiological saline solution 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 vaporized 0.9% saline solution can be inhaled to loosen or remove scabs or incrustations. A tracheostoma being treated with radiation is often highly sensitive and should be cared for as instructed by your physician or healthcare personnel.

Protective Accessories

To prevent particles of dust and dirt or other objects from entering the trachea through the stoma, special protective articles are needed such as cloths, bibs, roll-necks, filters, etc. 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. Another method is to inhale a vaporized saline solution. A room with up to 50 or 60% relative humidity also helps to maintain proper moisture levels in the airways.

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 authorized distributors with valuable, cost-free support for advising their patients:



Tube Info Card

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

Basic Information

The TRACOE sales guide is a complete package of brochures, information sheets and educational materials that you can use to train your sales representatives.



Advertising

Photographs of all TRACOE products are available for use in advertising or to create your own training documents; please specify the desired file format.

Sales Forces

TRACOE product specialists are available to support you in dealing with difficult indications and training your sales force. Following consultation, they can accompany your representatives on visits to customers.

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 regular mail or, on request, by e-mail.

Trade Shows/Conferences

TRACOE medical participates in many major national and international trade shows and conferences. TRACOE medical can also provide you with product posters and catalogues to use at your own events.

Internet

To quickly and conveniently obtain information about TRACOE products, news, or general information, simply visit the Internet at: www.tracoe.com.



Basic Product Sets

TRACOE partners have found the demonstration case to be an excellent way to display our products: top-quality carrying cases filled with all important TRACOE products that go wherever you go. It is an excellent way to provide an overview of the TRACOE programme.

REF 410

TRACOE demonstration case with typical products of each product line



REF 415

TRACOE demonstration case with the complete larynx product line



REF 701-K

TRACOE cpcwith TRACOE twist tube



ORDERING

telephone: +49-69-665668-80

+49-69-665668-99

fax: +49-69-665668-10

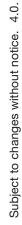
e-mail: info@tracoe.com

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.

Delivery: All TRACOE products are shipped directly ex stock. Orders placed before noon are usually shipped the same day. 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).

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).





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