

Ventilating – Sensitising – Communicating – Weaning – Decannulating

The TRACOE *twist* and TRACOE *twist* plus tracheostomy tubes are used as ventilation and therapy tubes with inner cannulas in hospitals, rehabilitation, and community settings.

A special feature of TRACOE *twist* tubes is the anatomically shaped neck flange that moves in both the vertical and horizontal axes. Patients can turn their heads freely, without

the tracheostomy tube exerting any strong pressure on the trachea. It is possible to attach or exchange the neck strap while the tube is in situ.

Sizing of the two product lines always corresponds to the inside diameter of the inner cannula. For example, when it says 8 mm on the neck flange, the lumen of the inner cannula is 8 mm.



For breathing and ventilation, the lumen should be as large as possible – that is why the internal measurement is given. For the patient, every millimetre counts. If the diameter of the lumen is reduced from 8 to 7 mm, the air supply is 41 % less and there is a huge increase in the effort required to breathe. Changing from 8 to 9 mm increases the air supply by 60 %, while the effort required to breathe remains the same.* Fourteen types of DEHP-free tubes in the TRACOE *twist* and *twist* plus product lines offer the wide choice needed to select the best tube for each patient. Cuffed tubes, also with subglottic suction lines, are the first choice for use in percutaneous dilatation procedures – see the TRACOE *percutan* line.

* Hagen-Poiseuille equation on laminar flow



TRACOE twist Tracheostomy Tube

with low pressure cuff

Including: • 2 inner cannulas with 15 mm connector

- perforated obturator
 - neck strap
 - in sterile package





TRACOE *twist* **Tracheostomy Tube** with low pressure cuff and fenestration

Including: • inner cannula, fenestrated,

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





TRACOE twist Tracheostomy Tube

Including:
 2 inner cannulas with 15 mm connector

- perforated obturator
- neck strap
- in sterile package





REF 301-P

TRACOE twist Tracheostomy Tube

with minimally traumatic inserter and low pressure cuff

Including: • 2 inner cannulas with 15mm connector

- reinsertion tube
 - lubricating gel
 - perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 320





TRACOE *twist* **Tracheostomy Tube**

with minimally traumatic inserter, low pressure cuff and fenestration

Including: • inner cannula, fenestrated,

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

As percutaneous set in REF 321







TRACOE *twist* **Tracheostomy Tube** with fenestration

Including: • inner cannula, fenestrated,

with 15mm connector

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



TRACOE twist Tracheostomy Tube

with low pressure cuff and subglottic suction line

Including: • 2 inner cannulas with 15 mm connector

- 2 connectors for suction devices
 - perforated obturator
 - neck strap
 - in sterile package





TRACOE *twist* Tracheostomy Tube

with low pressure cuff, subglottic suction line, and fenestration

Including: • inner cannula, fenestrated,

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





TRACOE *twist* Laryngectomy Tube

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

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

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





REF 306-P

TRACOE twist Tracheostomy Tube

with minimally traumatic inserter, low pressure cuff and subglottic suction line

Including: • 2 inner cannulas with 15 mm connector

- 2 connectors for suction devices
- reinsertion tube
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 322





TRACOE twist Tracheostomy Tube

with minimally traumatic inserter, low pressure cuff, subglottic suction line and fenestration

Including: • inner cannula, fenestrated,

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

As percutaneous set in REF 888-322





TRACOE *twist* **Tracheostomy Tube**

with low pressure cuff and air supply line for speaking

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



REF 311 🕂

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

Including: • 2 inner cannulas with 15 mm connector

- perforated obturator
 - neck strap
 - in sterile package





TRACOE twist plus Tracheostomy Tube

with low pressure cuff and double fenestration at inner and outer bend

Including:
 inner cannula, double fenestrated with
 15mm connector

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





TRACOE twist plus Tracheostomy Tube

Including:
 2 inner cannulas with 15 mm connector

- perforated obturator
- neck strap
- in sterile package

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





REF 311-P 🕂

TRACOE twist plus Tracheostomy Tube

with minimally traumatic inserter and low pressure cuff

Including: • 2 inner cannulas with 15 mm connector,

- one pre-mounted
- lubricating gel
- perforated obturator
- neck strap
- in sterile package

As percutaneous set in REF 330





TRACOE *twist* plus Tracheostomy Tube

with minimally traumatic inserter, low pressure cuff and double fenestration at inner and outer bend

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

As percutaneous set in REF 331





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

Including: • inner cannula with 15 mm connector

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



REF 316 🕂

TRACOE twist plus Tracheostomy Tube

with low pressure cuff and subglottic suction line

Including: • 2 inner cannulas with 15 mm connector

- 2 connectors for suction devices
 - perforated obturator
 - neck strap
 - in sterile package





TRACOE twist plus Tracheostomy Tube

with low pressure cuff, subglottic suction line and double fenestration at inner and outer bend

Including: • inner cannula with 15 mm connector

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





REF 316-P 🕂

TRACOE *twist* plus Tracheostomy Tube

with minimally traumatic inserter, low pressure cuff and subglottic suction line

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

As percutaneous set in REF 332





TRACOE twist plus Tracheostomy Tube

with minimally traumatic inserter, low pressure cuff, subglottic suction line and double fenestration at inner and outer bend

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

As percutaneous set in REF 888-332



TRACOE *twist* **Spare Inner Cannulas** with 15 mm connector

Packaging unit: • 3 units (in sizes 04 - 10)

- 10 units under REF 501-X
 (in sizes 04 10)
- ♦ 30 units under REF 501-XXX (in sizes 06 – 09)
- sterile, individually packaged



REF 506 🔀

TRACOE *twist* **Spare Inner Cannulas** fenestrated, with 15 mm connector

Packaging unit: • 3 units (in sizes 04 – 10)

- ◆ 10 units under REF 506-X (in sizes 04 – 10)
 - sterile, individually packaged





TRACOE *twist* **Inner Cannulas** fenestrated, with integrated speaking valve

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



REF 503

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

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





TRACOE *twist* **plus Spare Inner Cannulas** with 15 mm connector

Packaging unit: • 3 units (in sizes 07 – 10)

- 10 units under REF 521-X (in sizes 07 – 10)
- ◆ 30 units under REF 521-XXX (in sizes 07 – 09)
- sterile, individually packaged





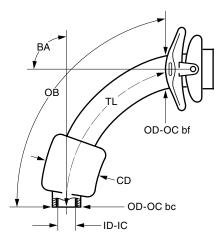
TRACOE *twist* **plus Spare Inner Cannulas** double fenestrated, with 15 mm connector

Packaging unit: • 3 units (in sizes 07 – 10)

- 10 units under REF 523-X (in sizes 07 – 10)
- sterile, individually packaged

Technical Data

TRACOE twist



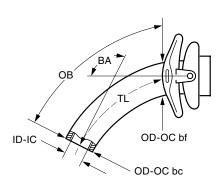
REF 301, REF 302, REF 303, in sizes 04 – 10 REF 304, REF 306, REF 309 REF 888-306

REF 301-P, REF 302-P, REF 306-P, REF 888-306-P in sizes 06 - 10

in sizes 07 – 09

Size	ID-IC	OD-OC bc	OD-OC bf	TL	OB	BA	CD
	mm	mm	mm	mm	mm	θ°	mm
04	4.0	7.2	8.6	59	63.0	110	15
05	5.0	8.6	10.1	66	73.0	100	18
06	6.0	9.2	10.8	72	79.5	95	23
07	7.0	10.4	12.0	74	80.5	95	26
08	8.0	11.4	12.7	76	83.0	90	28
09	9.0	12.5	14.2	78	88.5	90	30
10	10.0	13.8	15.2	80	89.5	90	32

TRACOE *twist* Laryngectomy Tube



REF 305

Size	ID-IC	OD-OC bc	OD-OC bf	TL	OB	BA
	mm	mm	mm	mm	mm	θ°
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

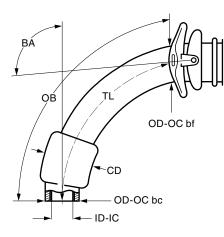
ID-IC: inside diameter (clear width) at bottom of inner cannula; OD-OC bc: outside diameter at bottom of outer cannula; OD-OC bf: outside diameter of outer cannula behind the flange; TL: along centre line from start of neck flange to bottom of tube; OB: length along outer bend from start of neck flange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

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



Technical Data and Scope of Supply

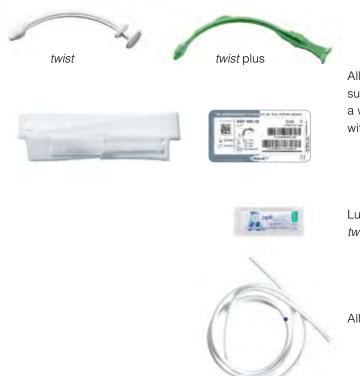
TRACOE *twist* plus



REF 311, REF 312, REF 313, REF 314, REF 316, REF 888-316, REF 311-P, REF 312-P, REF 316-P, REF 888-316-P

Size	ID-IC	OD-OC bc	OD-OC bf	TL	OB	BA	CD
	mm	mm	mm	mm	mm	θ°	mm
07	7.0	9.8	10.1	85	91	100	26
08	8.0	10.8	11.1	88	95	100	28
09	9.0	11.8	12.1	90	99	100	30
10	10.0	12.8	13.1	92	102	100	32

Scope of Supply of TRACOE twist and twist plus Tubes



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

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

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

Product Information and Specialities

Fenestration



TRACOE twist and twist plus

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

TRACOE twist REF 888-306 and twist plus REF 888-316

Multifunctional tracheostomy tubes with cuff, subglottic suction line, and speaking function. Can be used with closed inner cannula for ventilation or with fenestrated inner cannula and deflated cuff as a therapy tube.

Features of the Inner and Outer Cannulas

Green and White mean non-fenestrated



 Green lettering on the neck flange indicates a non-fenestrated outer cannula



 Non-fenestrated TRACOE *twist* inner cannulas are identified by white 15mm connectors



 Non-fenestrated TRACOE twist plus inner cannulas are identified by a white grooved low-profile connector

Blue means fenestrated



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



 Fenestrated TRACOE twist plus inner cannulas are identified by a blue grooved low-profile connector

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



twist

It's the Inner Values that count!



View of tube end

Subglottic Suction Line

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

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



Accumulated secretions in the subglottic space can be suctioned off at the lowest point, i.e. just above the cuff. This reduces the risk of bacterially contaminated secretions entering the lower respiratory tract and the risk of developing aspiration pneumonia.

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

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

Air Supply for Speaking



TRACOE *twist* **REF** 309

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