

Trachealator™

Treatment of airway stenosis with simultaneous ventilation





Balloon dilatation of tracheal stenosis
with **simultaneous ventilation**

Foreword

Optimize oxygen delivery to your patients during balloon dilatation of tracheal stenoses.

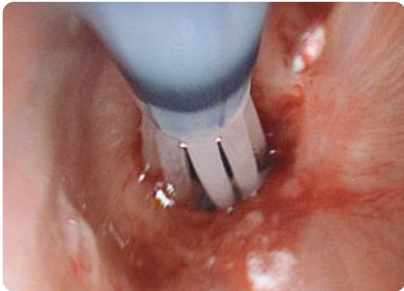
Our new trachealator™ allows full ventilation during the dilation thanks to its multi balloon design. Take the time you need to perform the treatment optimally whilst supplying your patient with sufficient oxygen.

Your **SPIGGLE & THEIS** Team



For a gentle, efficient and sustainable treatment of tracheal stenosis

The Trachealator™ is a specially developed dilatation catheter which, thanks to its unique design, allows for prolonged and, above all, gentle treatment of tracheal stenosis.



deflated



inflated

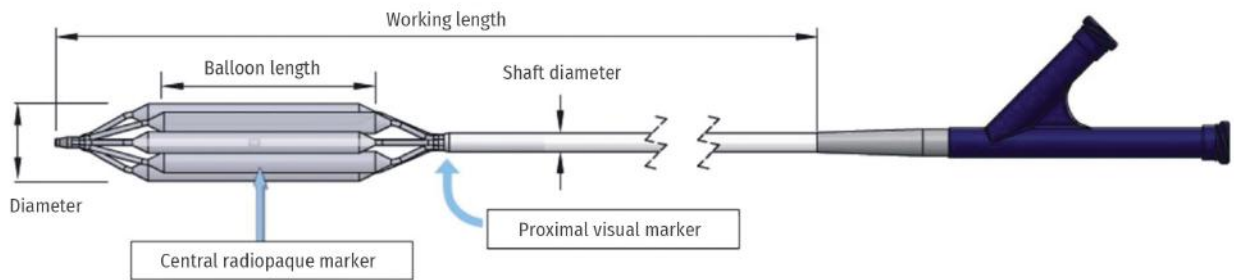
- Dilatation of airway stenosis with simultaneous ventilation
- Multiple dilatations possible
- Suitable for jet insufflation
- No limitation of dilatation time

- Total length 650 mm
- Available in different sizes
- Individually sterile packed
- Central guide wire



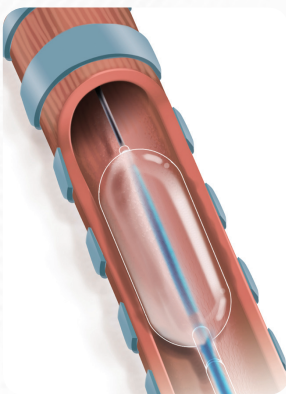
Scan QR code
to watch video

Trachealator™ – Treatment of airway stenosis with simultaneous ventilation

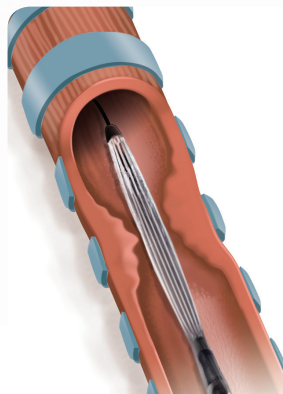


Trachealator™, AL 650 mm, 1 piece

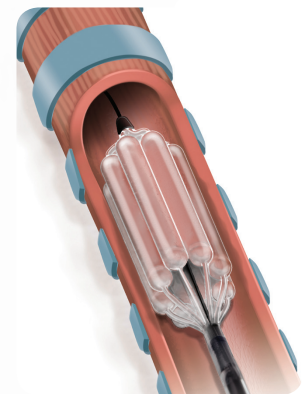
| Art.-No. | Balloon dimensions (mm) | Nominal pressure (atm) | Burst pressure (atm) | Shaft diameter (mm) | Guide wire (mm) |
|------------|-------------------------|------------------------|----------------------|---------------------|-----------------|
| TRD1-06030 | 6 x 30 | 6 | 12 | 2,3 | 0.46 |
| TRD1-07030 | 7 x 30 | 6 | 12 | 2,3 | 0.46 |
| TRD1-08030 | 8 x 30 | 6 | 12 | 2,3 | 0.46 |
| TRD1-09030 | 9 x 30 | 6 | 12 | 2,3 | 0.46 |
| TRD1-10030 | 10 x 30 | 6 | 12 | 2,3 | 0.46 |
| TRD1-12040 | 12 x 40 | 6 | 12 | 2,3 | 0.46 |
| TRD1-14540 | 14.5 x 40 | 6 | 12 | 3,5 | 0.89 |
| TRD1-16040 | 16 x 40 | 6 | 12 | 3,5 | 0.89 |
| TRD1-18040 | 18 x 40 | 6 | 12 | 3,5 | 0.89 |



Conventional dilatation balloon catheters completely occlude the airway



Catheter is placed across stenosis while in folded condition



The trachealator™ catheter allows simultaneous ventilation during dilatation



Inflation pump

- For single-use
- 30 ml, releasable lock, twist handle, pressure gauge and Luer Lock rotary adapter
- PSI-Scale, 0 to 30 atm
- Including 50 cm - extension hose

2080-9030040



Flexible nasopharyngoscope

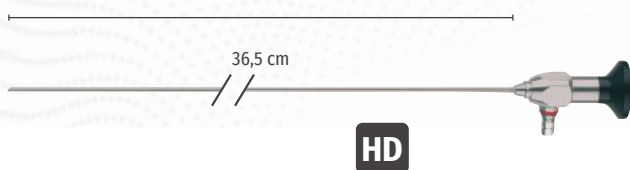
| Art.-No. | |
|-----------|-----------------------------|
| 30-170-28 | 2.8 mm |
| 30-170-36 | 3.4 mm |
| 30-171-40 | 4.0 mm with working channel |

| | |
|-------------------|---------|
| Working length | 32 cm |
| Angle (up / down) | 130° |
| Bending radius | 8 mm |
| Field of view | 80° |
| Depth of field | 1-50 mm |
| Weight | 230 g |



Bronchoscope, AD 5.5 mm, 49 cm

| Art.-No. | Angle |
|-----------|-------|
| 60-202-00 | 0° |
| 60-202-30 | 30° |



Bronchoscope, AD 2.9 mm, 36.5 cm

| Art.-No. | Angle |
|-----------|-------|
| 60-204-00 | 0° |
| 60-204-30 | 30° |

Other endoscopes available on request.

JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA

APRIL 2017, Volume 31, Supplement 1, Pages S6-S7

Ross Hofmeyr, J McGuire, P Douglas-Jones, M Proxenos, K Park, D Lubbe
Multilevel dilatation of tracheal and bronchial stenosis using a non-occlusive tracheal dilatation balloon in a patient with sclerosing airway disease

EUROPEAN JOURNAL OF ANAESTHESIOLOGY (EJA)

JUNE 2017, Volume 34, e-Supplement 55, Page 278

Hofmeyr R, McGuire J, Park K, M Proxenos, Marwick P, D Lubbe
Initial assessment and development of anaesthesia techniques for use of a novel, non-occlusive tracheal dilatation balloon allowing continuous oxygenation and ventilation

EUROPEAN JOURNAL OF ANAESTHESIOLOGY (EJA)

AUGUST 2018, Volume 35, e-Supplement 56, Page 278

Hofmeyr R, McGuire J, Park K, M Proxenos, Peer S, D Lubbe
First human trial of a non-occlusive dilatation balloon allowing continuous oxygenation and ventilation in the management of tracheal stenosis

JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA

APRIL 2017, Volume 31, Supplement 1, Pages S70-S85

Ross Hofmeyr, J McGuire, P Marwick, K Park, M Proxenos, M Lehmann, H Weich
Continuous ventilation during tracheal dilatation using a novel, non-occlusive tracheal balloon dilator in an ovine model

OTOLARYNGOLOGY – HEAD AND NECK SURGERY

OCTOBER 2018, Volume 159, Supplement 1

Jessica McGuire, Ross Hofmeyr, Darlene Lubbe
Innovative Non-occlusive Airway Balloon for Dilatation of tracheal Stenosis with Continuous Ventilation

SOUTHERN AFRICAN JOURNAL OF ANAESTHESIA AND ANALGESIA

JANUAR 2021, Volume 26, Issue 05

R. Hofmeyr, J. McGuire, P. Marwick, K. Park, M. Proxenos, M. Lehman, H. Weich
Assessment of continuous ventilation during tracheal dilatation using a novel, non-occlusive balloon in an ovine model

EUROPEAN ANNALS OF OTORHINOLARYNGOLOGY, HEAD & NECK DISEASES

AUGUST 2021, Volume 138, Supplement 1

S. Peer, A. Brooks, J. McGuire
"How I do it": Novel non-occlusive balloon dilation in paediatric airway stenosis: A paradigm shift (with video)

JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA

FEBRUARY 2022, Published online

Ross Hofmeyr, Jessica McGuire, Kenneth Park, Matthew Proxenos, Shazia Peer, Markus Lehmann, Darlene Lubbe
Prospective Observational Trial of a Nonocclusive Dilatation Balloon in the Management of Tracheal Stenosis





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