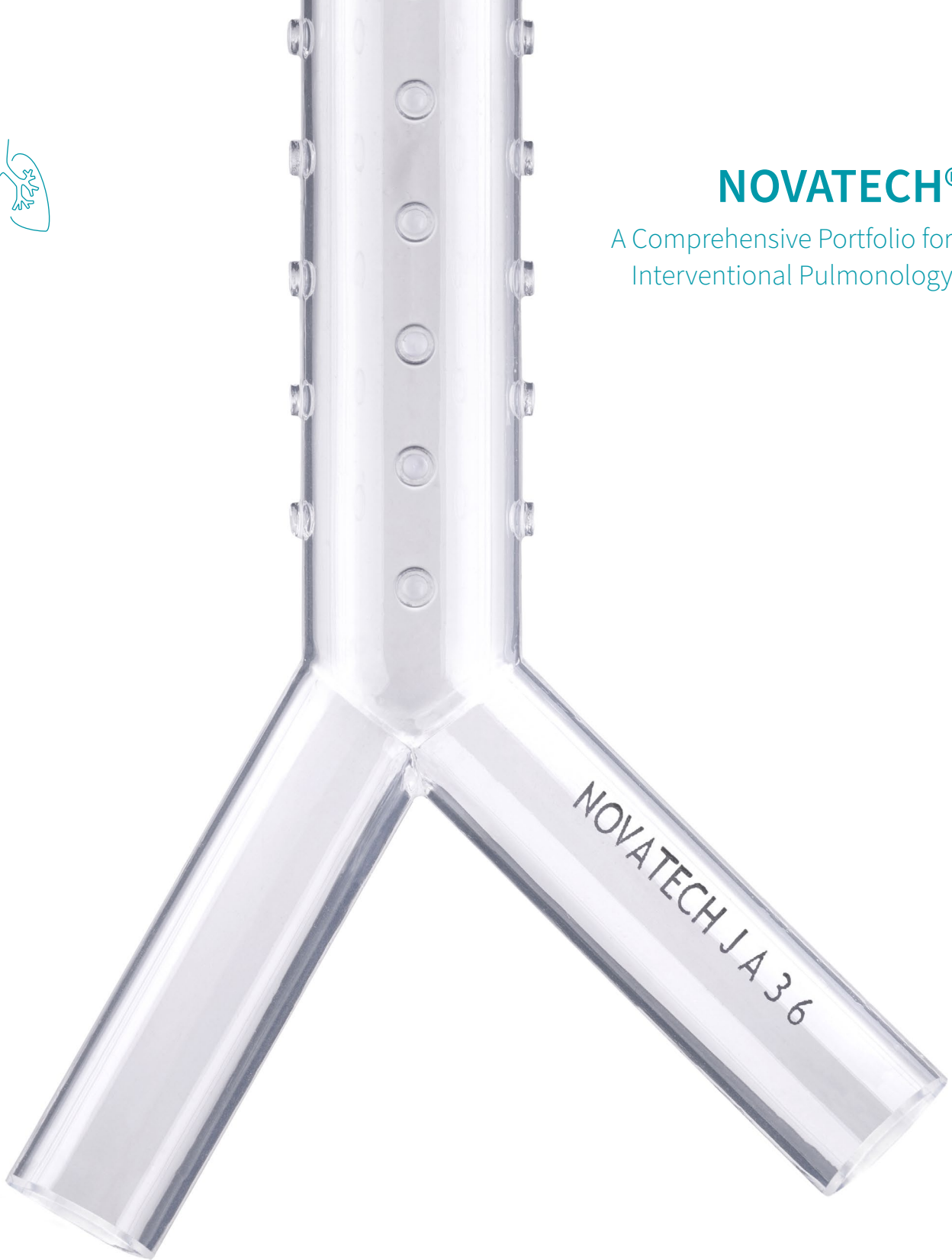




NOVATECH®

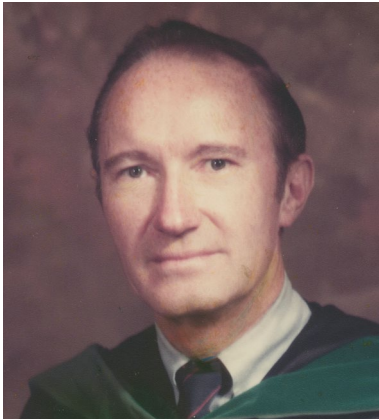
A Comprehensive Portfolio for
Interventional Pulmonology



- DUMON™ Silicone Airway Sents
- TONN™ NOVATECH® Stent Applicator
- DUTAU® NOVATECH® Modular Bronchoscope
- ROTEPS® Bronchoscopy Forceps

Groundbreaking solutions. From physicians for physicians.

Though much has changed at **Boston Medical Products** over the past 45 years, one thing remains constant: our commitment to deliver the world's finest specialty surgical products — products that physicians can rely on and patients can trust.



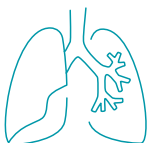
Boston Medical Products was founded in 1980 by three physicians - including world-renowned surgeon **William W. Montgomery, M.D.** as a way to make Dr. Montgomery's original innovations widely available to fellow physicians.

Today, Boston Medical Products continues to be driven by his life-long commitment to superior patient care.

William W. Montgomery, M.D. 1923–2003



Office, production and warehouse in Shrewsbury, Massachusetts



NOVATECH®

Because Life is Precious.

Novatech has been producing silicone stents developed by Dr. Jean-François Dumon for over 30 years. In order to improve patient care, many developments have been added over the years, such as STERITALC® and various instruments for bronchoscopy. Novatech's extensive experience and strict quality standards serve one goal: To provide products that give patients a better quality of life.



part of
bess.group



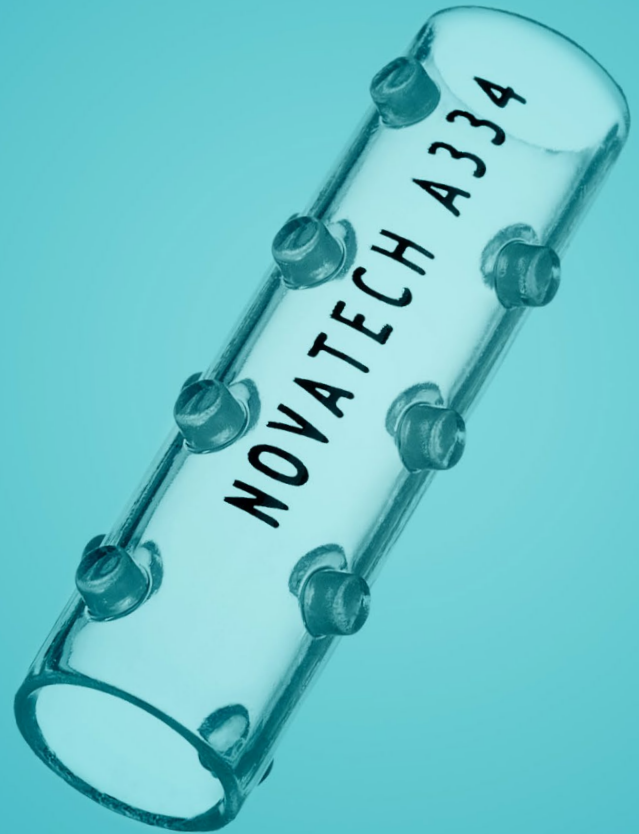
DUMON™ Silicone Airway Stents

Tried and tested for decades

Now available sterile

Since 1989, Novatech has been offering the patented DUMON™ stents - a stent system that has proven itself as a reference product for improving patient comfort in airway stenosis.

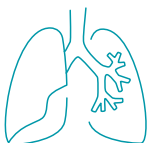
DUMON™ stents are made of specially treated transparent or radiopaque medical grade silicone (implantable for more than 29 days). They are considered to be the gold standard for the treatment of both benign and malignant airway stenoses over the last 20 years.¹



¹ Dutau H, Breen D, Bugalho A, et al. Current Practice of Airway Stenting in the Adult Population in Europe: A Survey of the European Association of Bronchology and Interventional Pulmonology (EABIP). Respiration 2018;95(1):44–54.

Indications

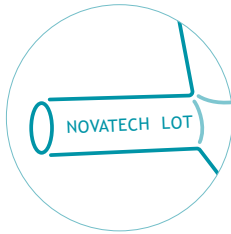
- Tracheobronchial tumors
- Tracheobronchial stenoses with scarring
- Tracheobronchial stenoses after anastomosis, resection or lung transplantation
- Diameter reduction from intraluminal, extraluminal and intramural changes





Quality

DUMON™ stents are manufactured from unrestrictedly implantable silicone and are very well tolerated by the airway mucosa.



Traceability

“NOVATECH” and LOT are printed on each DUMON™ stent. This means that a NOVATECH stent can be identified as an original at any time. (excluding radiopaque stents and stents with diameters < 10 mm.)



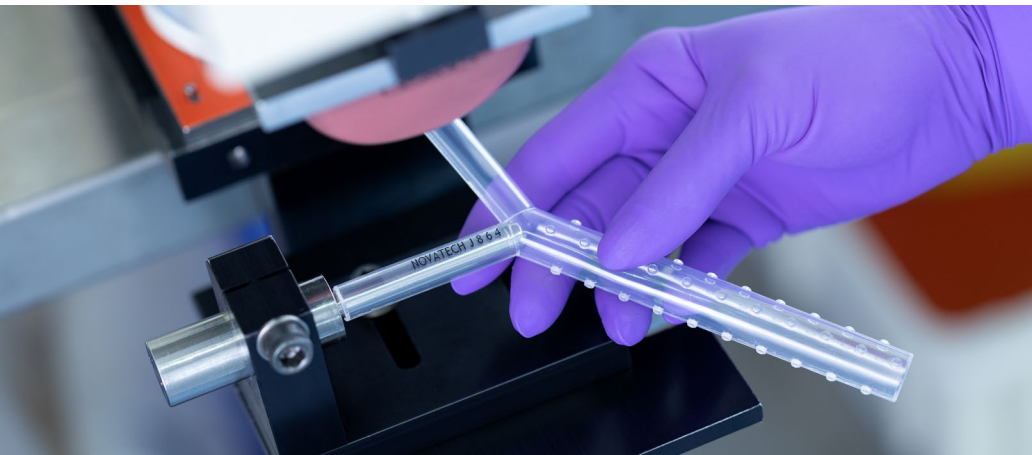
Selection

To lend the clinician maximum room for maneuver when treating airway stenoses, we provide a wide range of stent types, diameters and lengths.



Sterility **NEW!**

For instant availability, DUMON™ stents now come sterile.



Well conceptualized

down to the smallest detail

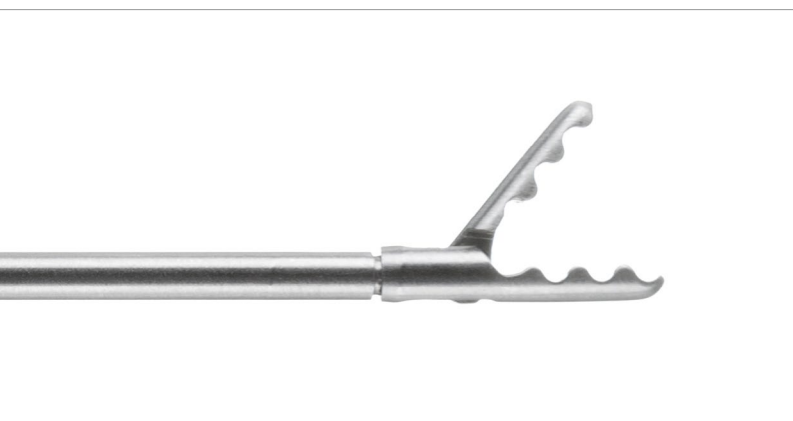
In addition to the features described on this page, one of the greatest challenges in the development and manufacture of silicone stents is creating the right balance between flexibility and radial force. Novatech's decades long experience and collaboration with the world's leading interventional pulmonologists has resulted in high-quality, reliable stents, and all for the benefit of your patients.



Easy placement

DUMON™ stents can be easily loaded into the TONN™ NOVATECH® Stent Applicator. In this way they are prepared for release at their target by the rigid bronchoscope.

*Do you need any information about the instrumentation?
Contact us! 800-433-2674 (toll-free in the U.S.)*



Safe removal

DUMON™ stents can be retrieved and removed using forceps during a rigid bronchoscopy.



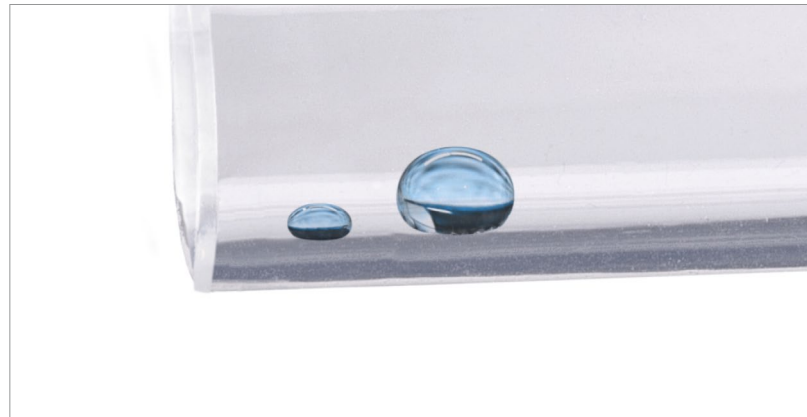
Anti-migration studs

The studs minimise the risk of migration by securing the stent between the cartilage rings of the tracheo-bronchial tree.



Anti-adherent surface

A special silicone-based surface treatment provides an anti-adherent surface that reduces any risk of obstruction.



Bevelled ends

To facilitate the transport of secretions, the ends of the DUMON™ stents are atraumatically bevelled

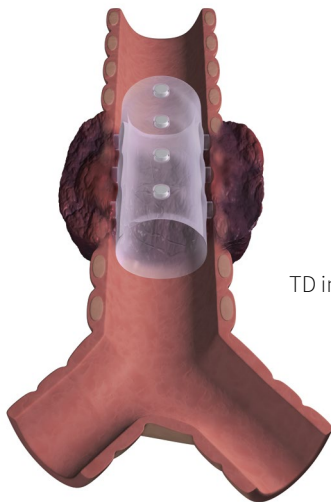


The correct solution. For every patient.

Tracheal Stent

DUMON™ TD Standard tracheal stent

- Wall thickness: 1.5 mm
- Rows of studs: 4 ($\varnothing \geq 20$ mm: 3) →



TD in situ

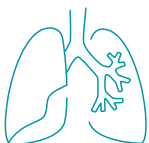
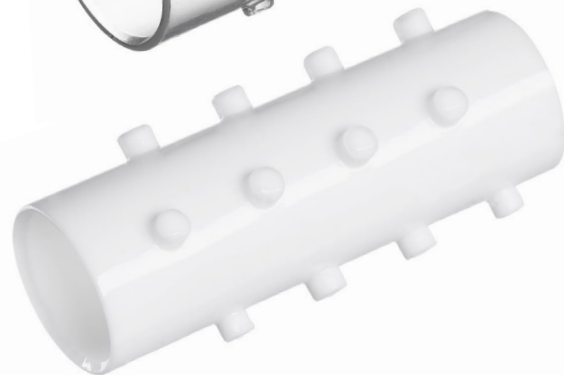
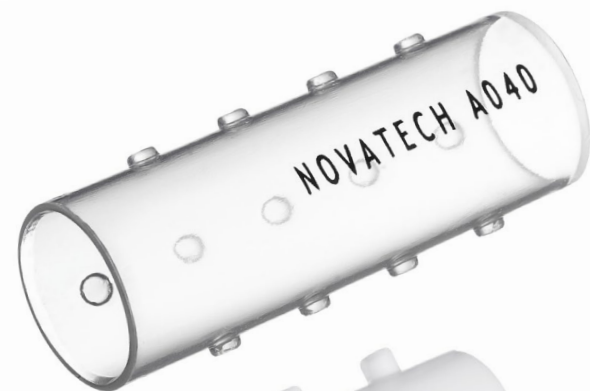
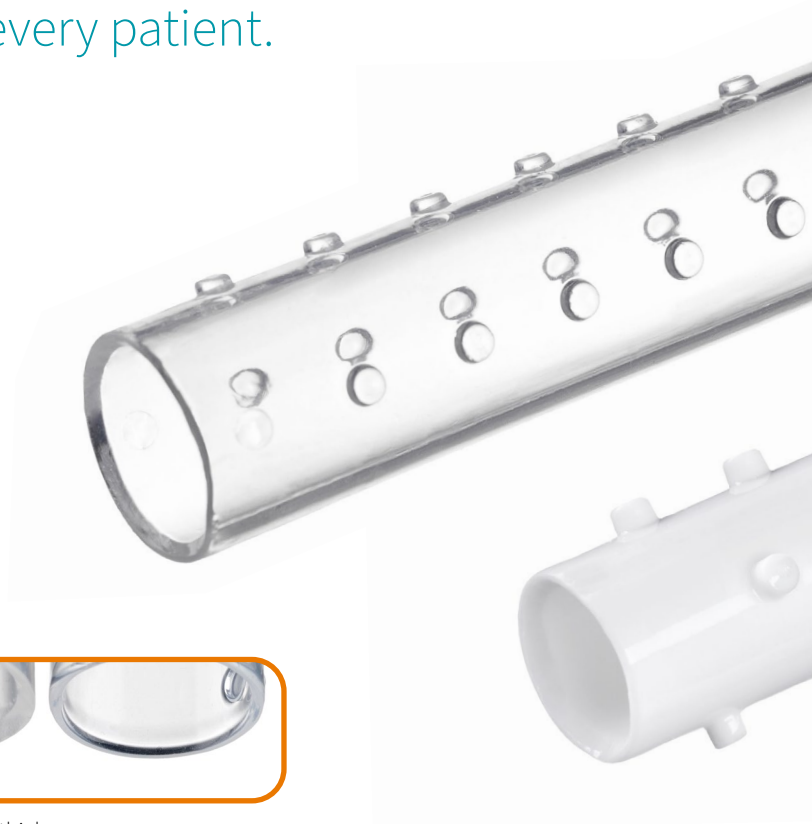


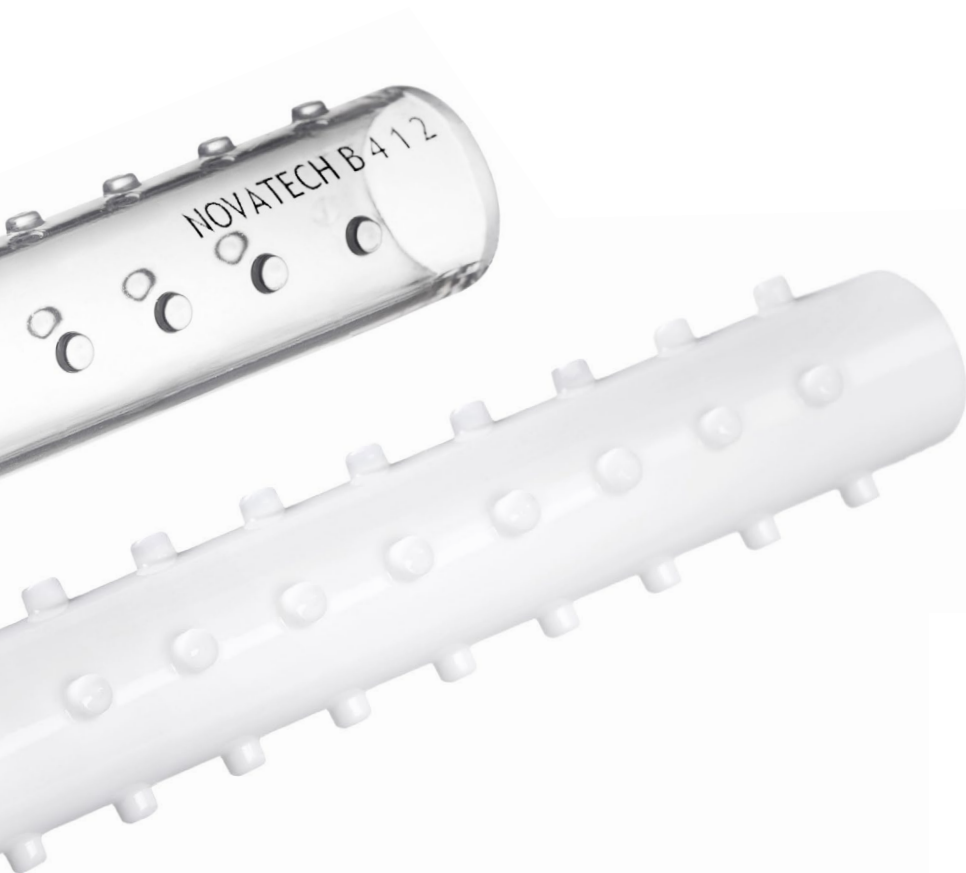
Comparison of wall thicknesses:
left DUMON™ TD (1.5 mm), right DUMON™ TF (1 mm)

DUMON™ TF Thin tracheal stent

With a 1 mm wall thickness for increased air flow.

- Wall thickness: 1 mm
- Rows of studs: 4 ($\varnothing \geq 20$ mm: 3) →



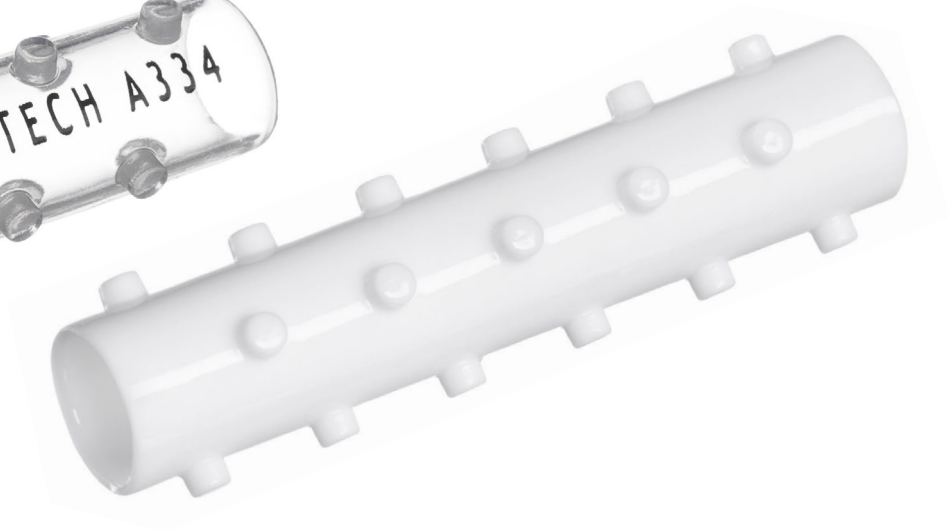
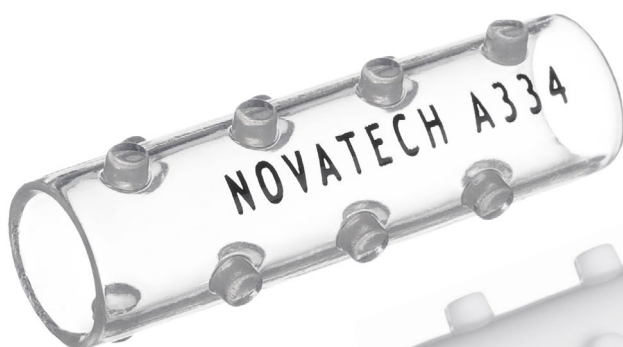


Bronchial Stent

DUMON™ BD

Smaller diameters for bronchial indications.

- Wall thickness: 1 mm
- Rows of studs: 4



BD in situ



The correct solution. For every patient.



Y stent

DUMON™ Y Bifurcation stent

DUMON™ Y stents have 3 rows of studs. To avoid excessive pressure on the posterior tracheal wall, there are no studs on the posterior side of the Y stent.

Custom-made products are possible.

- Wall thickness: 1 mm
- Rows of studs: 3



Hourglass Stent

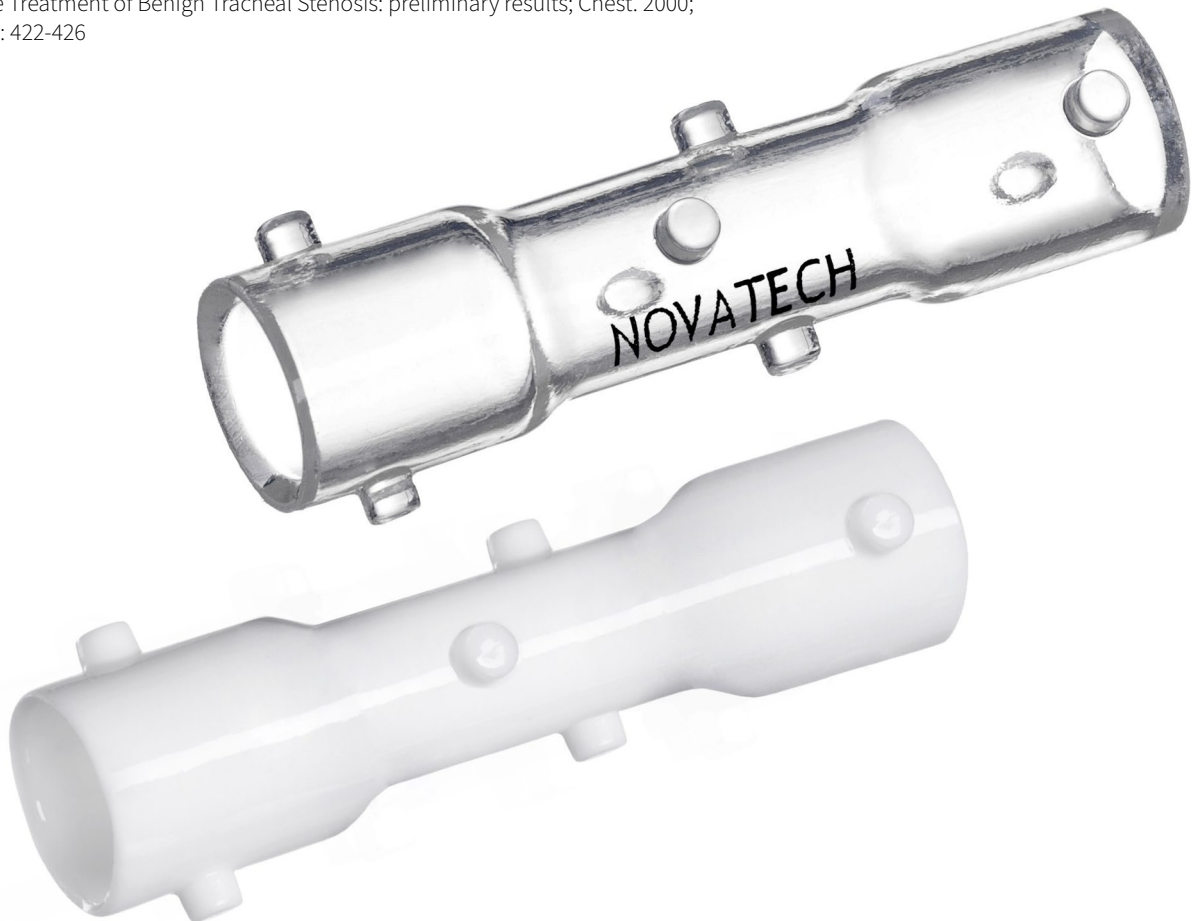
DUMON™ ST Stent for benign, annular stenosis

The hourglass-shaped ST stents were developed in collaboration with Prof. Vergnon (University Hospital Saint Etienne, France).

They are particularly suited to complex benign tracheal stenoses, such as post-intubation or post-tracheostomy stenoses. The diameters of the proximal and distal ends correspond to the diameter of the healthy trachea. The middle part is narrower to reduce the risk of injuring the stenotic section of the trachea, but wide enough to ensure a sufficient air flow.

- *Wall thickness: 1.5 mm*
- *Rows of studs: 4*

Vergnon JM, Costes F, Polio JC; Efficacy and Tolerance of a New Silicone Stent for the Treatment of Benign Tracheal Stenosis: preliminary results; Chest. 2000; 118(2): 422-426



Diameters and lengths - straight stents

DUMON™ BD / DUMON™ TD / DUMON™ TF

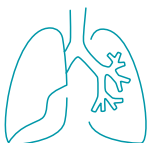
Determine the desired stent length (stenosis length + 10 mm)

and diameter and select from the available stents.

Length (mm) ►					
Outer Diameter (mm) ▼	20	30	40	50	60
9	02841S(BD)	04341S(BD)	04371S(BD)	04391S(BD)	04411S(BD)
10	03721S(BD)	03741S(BD)	03761S(BD)	03781S(BD)	03801S(BD)
11	03001S(TD) 03841S(BD)	03021S(TD) 03861S(BD)	03041S(TD) 03881S(BD)	03061S(TD) 03901S(BD)	03081S(TD) 03921S(BD)
12	03121S(TD) 03961S(BD)	03141S(TD) 03141FS(TF)* 03981S(BD)	03161S(TD) 03161FS(TF)* 04001S(BD)	03181S(TD) 04021S(BD)	03201S(TD) 04041S(BD)
13		03261S(TD) 03261FS(TF)	03281S(TD) 03281FS(TF)	03301S(TD) 03301FS(TF)	03321S(TD) 03321FS(TF)
14		03381S(TD) 03381FS(TF)	03401S(TD) 03401FS(TF)	03421S(TD) 03421FS(TF)	03441S(TD) 03441FS(TF)
15		03531S(TD)	03541S(TD)	03551S(TD)	03561S(TD)
16		03621S(TD)	03641S(TD) 03641FS(TF)	03661S(TD) 03661FS(TF)	03681S(TD) 03681FS(TF)
18			04141S(TD) 04141FS(TF)*	04151S(TD) 04151FS(TF)*	04161FS(TF)*
20			04231FS(TF)*	04241FS(TF)*	04251FS(TF)*

REF + R = Radiopaque *transparent only

DUMON™ stents are supplied sterile in a double sterile pouch, one stent per carton.





Custom-made products are possible.
Contact us!

70	80	90	100	110
04421S(BD)				
03821S(BD)				
03101S(TD)				
03221S(TD) 04051S(BD)	03231S(TD)			
03341S(TD) 03341FS(TF)				
03461S(TD) 03461FS(TF)				
03571S(TD)	03581S(TD)	03591S(TD)	03491S(TD)	03501S(TD)
03701S(TD) 03701FS(TF)	04281S(TD) 04281FS(TF)	04291S(TD) 04291FS(TF)	04301S(TD) 04301FS(TF)	04311S(TD)
04171FS(TF)*	04181FS(TF)*	04191FS(TF)*	04201FS(TF)*	
04261FS(TF)*	04271FS(TF)*	04431FS(TF)*	04441FS(TF)*	04451FS(TF)*



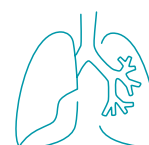
DUMON™ BD



DUMON™ TD



DUMON™ TF



Diameters and lengths - special shapes



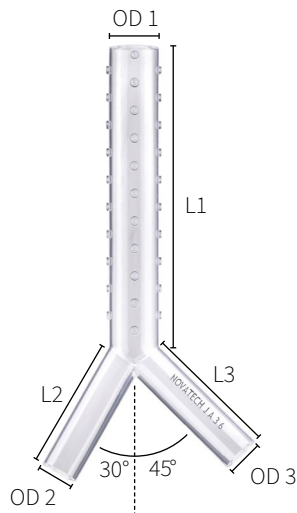
Custom-made products are possible.
Contact us!

DUMON™ Y

REF	Dimensions (mm)						Wall thickness
	OD			Length			
	1	2	3	L1	L2	L3	
91011S	14	10	10	110	50	50	1.0
92011S	15	12	12				
93011S	16	13	13				
94011S	18	14	14				

Transparent only.

DUMON™ stents are supplied sterile in a double sterile pouch,
one stent per carton.

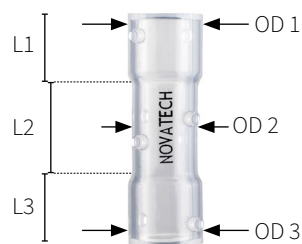


DUMON™ ST

REF	Dimensions (mm)						Wall thickness
	OD			Length			
	1	2	3	L1	L2	L3	
09041S	12	10	12	15	20	15	1.5
09031S	14	12	14				
09051S	15	13	15				
09011S	16	14	16				

REF + R = Radiopaque.

DUMON™ stents are supplied sterile in a double sterile pouch,
one stent per carton.



DUTAU® forceps

With the DUTAU® forceps, DUMON™ silicone stents can be fenestrated to adapt the stent to a specific situation (e.g. for ventilation of the upper lobe)



The fenestrations have rounded edges to minimise the risk of granulation.

REF	Description	Items per box
6522	DUTAU® forceps	1

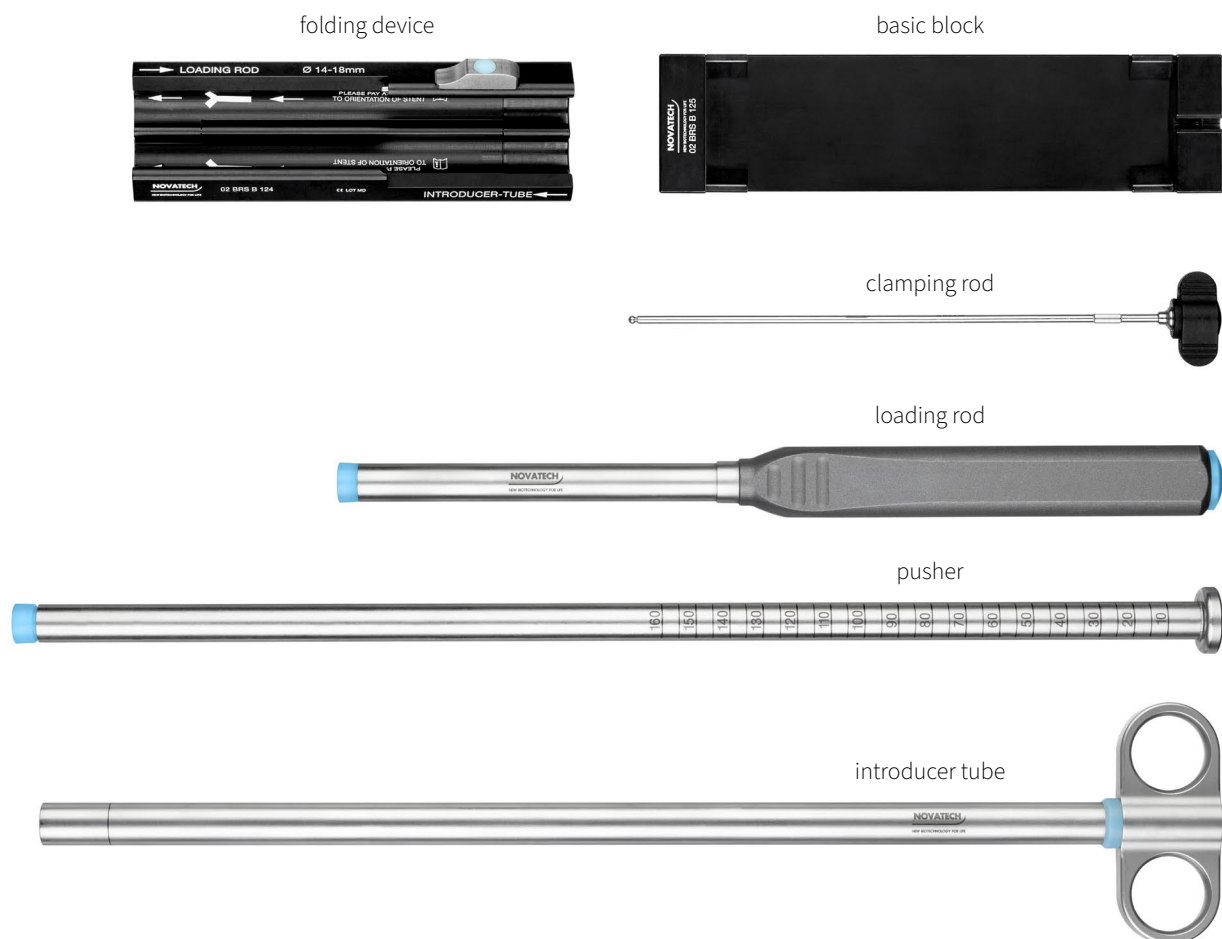


TONN™ NOVATECH®

compatible with ✓
DUTAU® NOVATECH®
Modular Bronchoscope

Stent Applicator

Designed by Dr. Hermann Tonn (Hanover, Germany) for insertion of **DUMON™** tracheo-bronchial silicone stents by rigid bronchoscopy

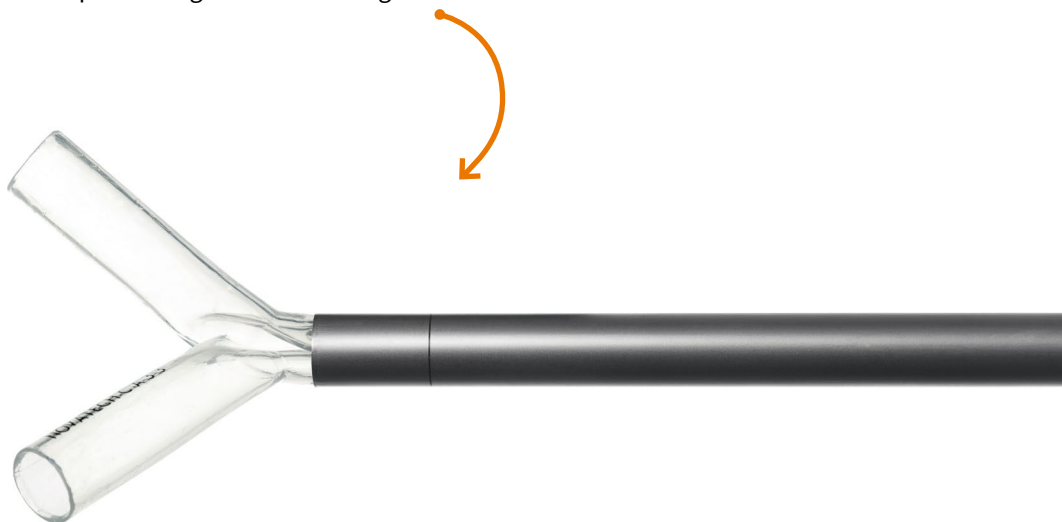


Stent placement made easy

Four different sizes: **BLUE**, **RED**, **GREEN** and **WHITE** for the placement of stents with diameters of 10 to 20 mm and lengths of 20 to 160 mm, as well as bifurcation stents (Y stents).



Y stents can also be placed easily as the correct position of the stent's branches is determined prior to insertion, thereby reducing the risk of mispositioning and stent damage.



Which applicator (BLUE, RED, GREEN, WHITE) fits which DUMON™ stent?

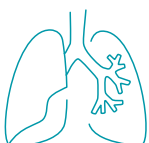
All dimensions in mm












TD		Length									
		20	30	40	50	60	70	80	90	100	110
Ø	11	■	■	■	■	■	■				
	12	■	■	■	■	■	■	■			
	13		■	■	■	■	■				
	14		■ ■	■ ■	■ ■	■ ■	■ ■				
	15		■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■	■	■
	16		■ ■	■ ■	■ ■	■ ■	■ ■	■ ■	■	■	■
	18			■ ■	■ ■						

TF		Length								
		30	40	50	60	70	80	90	100	110
Ø	12	■	■							
	13	■	■	■	■	■				
	14	■ ■	■ ■	■ ■	■ ■	■ ■				
	16		■ ■	■ ■	■ ■	■ ■	■ ■	■	■	
	18		■ ■	■ ■	■ ■	■ ■	■ ■	■	■	
	20		■ ■	■ ■	■ ■	■ ■	■ ■	■	■	■

BD		Length					
		20	30	40	50	60	70
Ø	9	□	□	□	□	□	■
	10	□	□	■	■	■	■
	11	■	■	■	■	■	
	12	■	■	■	■	■	■

Please note: Stents that can be placed with the BLUE system can also be placed with the RED set. For stents that do not appear in this overview and/or for custom-made devices, please contact our Customer Service Team.

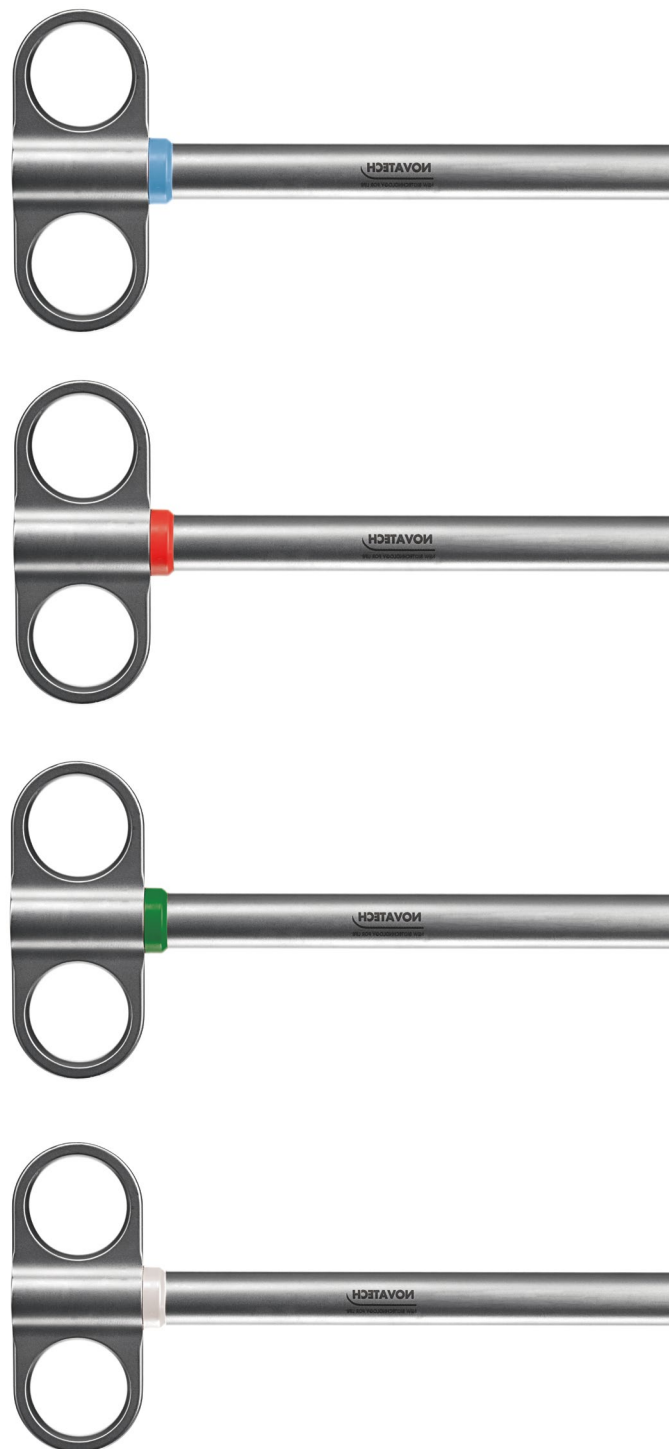


ST		Y	
12		14	
14	 	15	
15	 	16	
16	 	18	

TONN™ NOVATECH® Stent Applicator

Colour	Stent introducer working length (cm)	Stent Inserter OD (mm)	REF
BLUE	32	12.75	02 BRS B 120
RED	42	12.75	02 BRS R 130
GREEN	42	10.25	02 BRS G 140
WHITE	42	8.2	02 BRS W 150

Individual components are available as spare parts.
Please contact us for a quote.



DUTAU® NOVATECH®

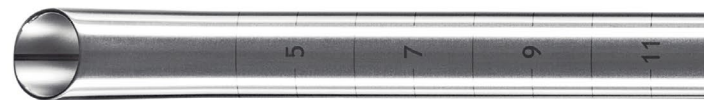
compatible with
TONN™ NOVATECH®
Stent Applicator

Modular bronchoscope

System consisting of a compact bronchoscope head and replaceable tubes

- Easy handling
- Compatible with common bronchoscopy instruments

Developed in close collaboration with
Dr. Hervé Dutau (Marseille, France)



The **scale** on the tubes – even on one side and odd on the other – simplifies the measurement of stenoses.

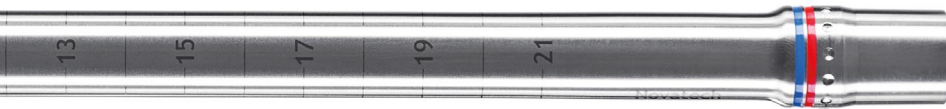


A **marker** at the tip of the tube helps to identify the long end (after rotation).



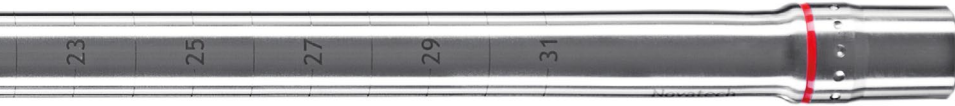


Bronchoscopy tubes are available in sizes 9 to 14. They are **colour-coded** and have a clear size marking. An additional blue ring indicates a short tube length (tracheoscope).



Tracheal tube, size 14: Blue-red

The short tracheoscopy tube (size 14) can be employed for intubation. Smaller bronchoscopy tubes (size 12 and smaller) can be inserted through the tracheoscope without re-intubation.



Bronchial tube, size 14: Red



Bronchial tube, size 12: Black



Bronchial tube, size 11: Green

The optimal relationship between the inner and outer diameters ensures an optimised gas exchange.



Bronchial tube, size 9: White

The proximal end of the tube is equipped with a conical ISO connector to directly connect a ventilation hose.



DUTAU® NOVATECH® Rigid Bronchoscope

modular, compatible, well thought-out

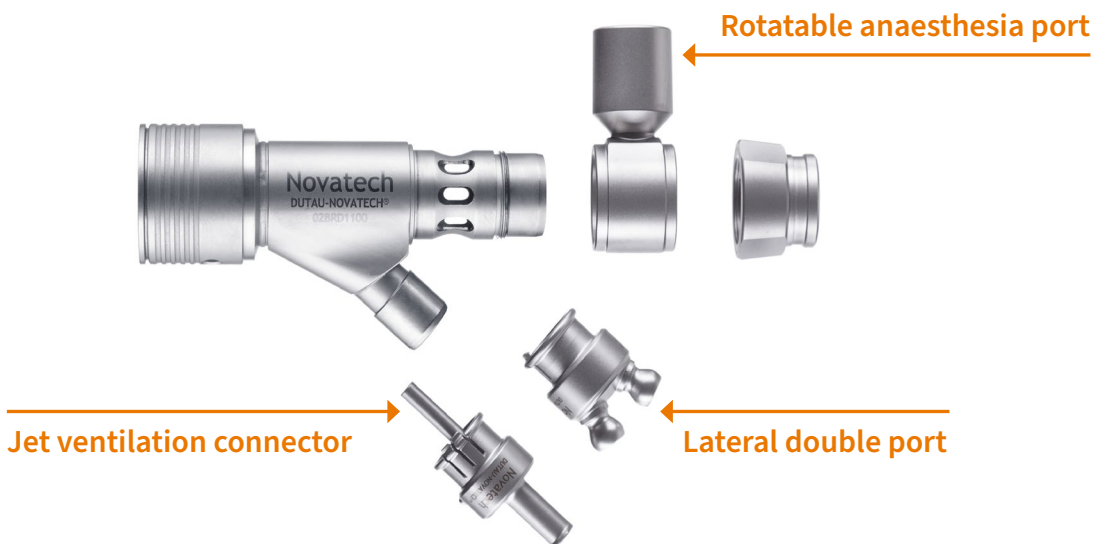


The bronchoscope head

- **Snap fastener**
for quick and easy connection of the tubes in different rotational positions
- **Rotatable anaesthesia port**
to prevent tubing from becoming entangled
- **Lateral double port**
e.g. for laser and suction catheter
- **Jet ventilation connector**
- **Short bronchoscope head**
for optimum overall usable length



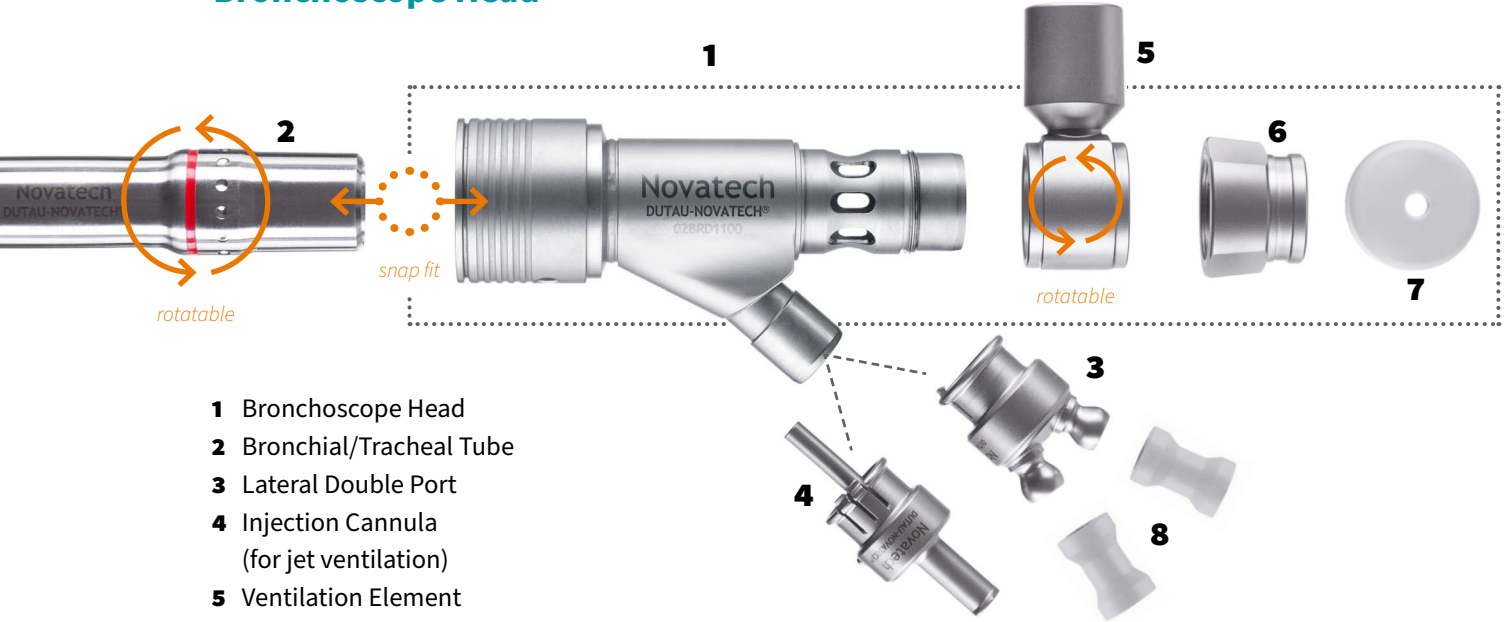
and **can be completely dismantled**



- Compatible with **the TONN™ NOVATECH® Stent Applicator** for easy placement of DUMON™ silicone stents and common instruments for rigid bronchoscopy (e.g. optical forceps)
- Can be fully dismantled for easy reprocessing according to modern standards



Bronchoscope Head



- 1 Bronchoscope Head
- 2 Bronchial/Tracheal Tube
- 3 Lateral Double Port
- 4 Injection Cannula
(for jet ventilation)
- 5 Ventilation Element
- 6 Axial Retainer
- 7 Axial Cap
- 8 Lateral Caps

REF	Description	Color Code	ID / OD (mm)	Working Length (cm)
02BRD1100	Bronchoscope Head, including <ul style="list-style-type: none"> • 1 Ventilation Element (including 2 O-Rings ID 16 × 1.25) • 1 Axial Retainer (including 1 O-Ring ID 15 × 1.5) • 1 Axial Cap 			
02BRD2514	Tracheal Tube, size 14	blue/red	13 / 14	25
02BRD3514	Bronchial Tube, size 14	red	13 / 14	35
02BRD3512	Bronchial Tube, size 12	black	10.7 / 12	35
02BRD3511	Bronchial Tube, size 11	green	10.5 / 11.2	35
02BRD3509	Bronchial Tube, size 9	white	8.5 / 9.2	35
02BRD1120	Lateral Double Port (including 2 Lateral Caps)			
02BRD1110	Injection Cannula (for jet ventilation)			
02BRDSET	Bronchoscope Set, consisting of <ul style="list-style-type: none"> • 1 Bronchoscope Head • 5 Tracheal/Bronchial Tubes • 1 Lateral Double Port (including 2 Lateral Caps) • 1 Injection Cannula 			
Consumables, available separately				Items per box
02BRD9901	O-Ring ID 16 × 1.25			10
02BRD9902	O-Ring ID 15 × 1.5			10



Caps for the rigid DUTAU® NOVATECH® bronchoscope

Available as spare parts

Axial caps



02BRD9101



02BRD9103



02BRD9104

Lateral caps



02BRD9151



02BRD9157



02BRD9158

Axial caps

REF	Description	Items per box
02BRD9101	Axial Cap (without opening)	5
02BRD9102	Axial Cap – opening Ø 2.85 mm	
02BRD9103	Axial Cap – opening Ø 3.9 mm	
02BRD9104	Axial Cap – opening Ø 7 mm	
02BRD9105	Axial Cap – opening Ø 9 mm	
02BRD9106	Axial Cap – opening Ø 9.5 mm	
02BRD9107	Axial Cap – opening Ø 10.2 mm	
02BRD9108	Axial Cap – opening Ø 12.3 mm	

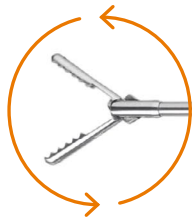
Lateral caps

REF	Description	Items per box
02BRD9151	Lateral Cap (without opening)	10
02BRD9152	Lateral Cap – opening Ø 0.6 mm	
02BRD9153	Lateral Cap – opening Ø 0.8 mm	
02BRD9154	Lateral Cap – opening Ø 1.2 mm	
02BRD9155	Lateral Cap – opening Ø 1.6 mm	
02BRD9156	Lateral Cap – opening Ø 1.8 mm	
02BRD9157	Lateral Cap – opening Ø 2.8 mm	
02BRD9158	Lateral Cap – opening Ø 3.8 mm	



ROTEPS® Innovative bronchoscopy forceps

Rotatable for easy handling,
can be completely dismantled
for efficient cleaning



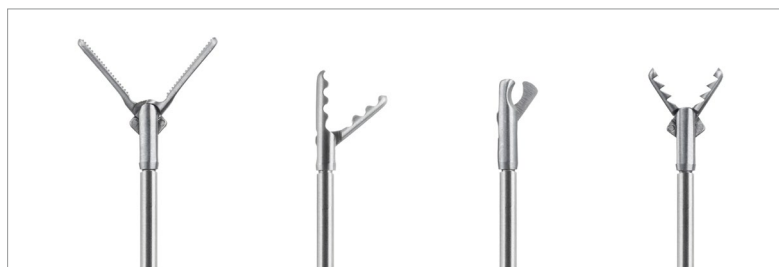
ROTEPS® HANDLE
Ø 2 mm



ROTEPS® SHAFT
2 mm



ROTEPS® HEAD
Ø 3 mm



A modular system

Two types of handles can be combined with **two** shafts (2 mm and 4 mm) and **seven** forceps heads.

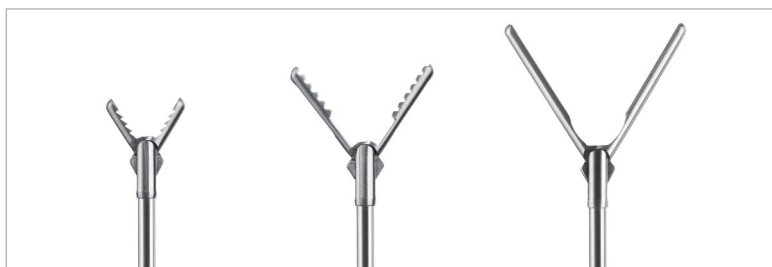
**ROTATABLE
FORCEPS**



ROTEPS® HANDLE
Ø 4 mm



ROTEPS® SHAFT
Ø 4 mm



ROTEPS® HEAD
Ø 5 mm





Rotatable



Dismountable



Combinable

ROTEPS® HANDLE

REF	Handle	for shaft	Color code
02BRT10200	without ratchet	Ø 2 mm	grey
02BRT10202	with shiftable ratchet		
02BRT10400	without ratchet	Ø 4 mm	black
02BRT10402	with shiftable ratchet		

ROTEPS® SHAFT

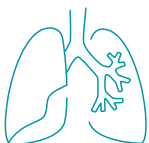
REF	Shaft	L	Color code
02BRT20260	Ø 2 mm	60 cm	grey
02BRT20460	Ø 4 mm	60 cm	black

ROTEPS® CLEANSE

REF	Description
02BRT40010	Cleaning Adapter for ROTEPS® SHAFT with Luer Lock Adapter incl. O-Ring
02BRT40040	O-Ring (Replacement part) for 02BRT40010



02BRT40010



ROTEPS® HEAD

For shaft Ø 2 mm

Grasping forceps, strong teeth
head Ø 3 mm, L 60 cm

02BRT30299

Hook scissors
head Ø 3 mm, L 60 cm

02BRT30296

Fenestrated forceps
head Ø 3 mm, L 60 cm

02BRT30295

Retraction forceps,
atraumatic teeth, one side opening
head Ø 3 mm, L 60 cm

02BRT30294

For shaft Ø 4 mm

Grasping forceps, strong teeth,
head Ø 5 mm, L 60 cm

02BRT30499

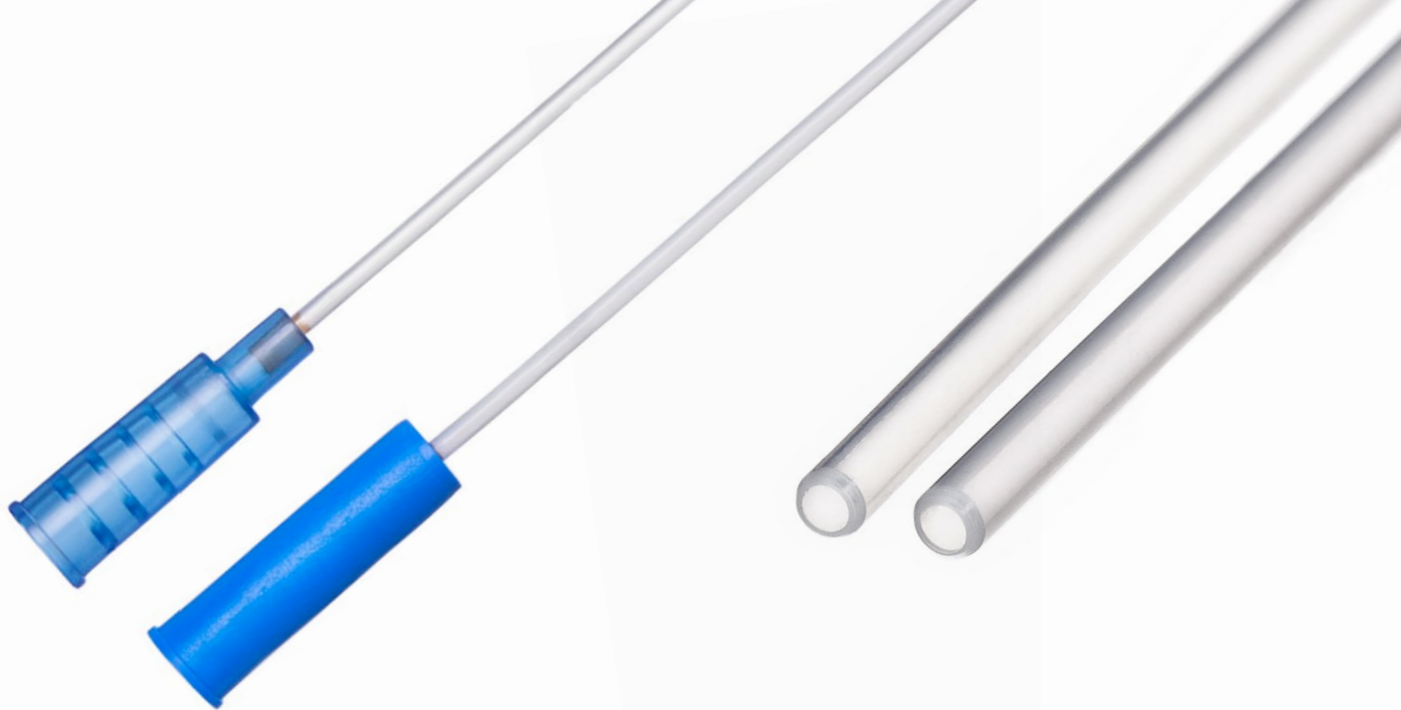
Y-Stent forceps,
head Ø 5 mm, L 60 cm

02BRT30498

Retraction forceps,
atraumatic inner teeth,
head Ø 5 mm, L 60 cm

02BRT30497





SURVAC™ Suction Catheter

Atraumatic rounded bronchoscopy suction catheters

- Atraumatic tip
- Kink-resistant material
- Transparent for better visibility

The larger PC catheters (3 × 4 mm) are particularly suitable for axial suctioning of large tumour fragments and for suctioning larger quantities in emergencies. Also available in PTFE for even greater flexibility.

REF	Description	Diameter (mm)		Working length [cm]	Connector	Items per box
		ID	OD			
77622	SURVAC™ PTFE	2.0	3.0	60	female, PVC	50
77632	SURVAC™ PC	2.0	2.7	60		
77642	SURVAC™ PC	3.0	4.0	60		
77642SC	SURVAC™ PC	3.0	4.0	30		



To Place an Order

Our Customer Service Representatives are available from 8:30 a.m. to 5:00 p.m. (EST) Monday through Friday. Orders can also be placed through our 24-hour fax line or by e-mail.

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- Main Telephone: 508-898-9300
- 24-hour-Fax: 508-898-2373
- customerservice@bosmed.com

Prescription Policy

U.S. federal law restricts these products to sale by or on the order of a physician.

Shipment

Standard shipping within the U.S. is FedEx Ground delivery. Express orders are accepted until 4:00 p.m. (EST) for next business day delivery nationwide.

Return Policy

All sales final, no returns or exchanges will be accepted.

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Boston Medical Products, Inc. warrants that reasonable care has been used in the manufacturing of all products. All products are warranted to be free of defects at the time of shipment. For specific product warranties, please refer to individual product Instructions for Use.



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