

ATMOS RS 221 ENT

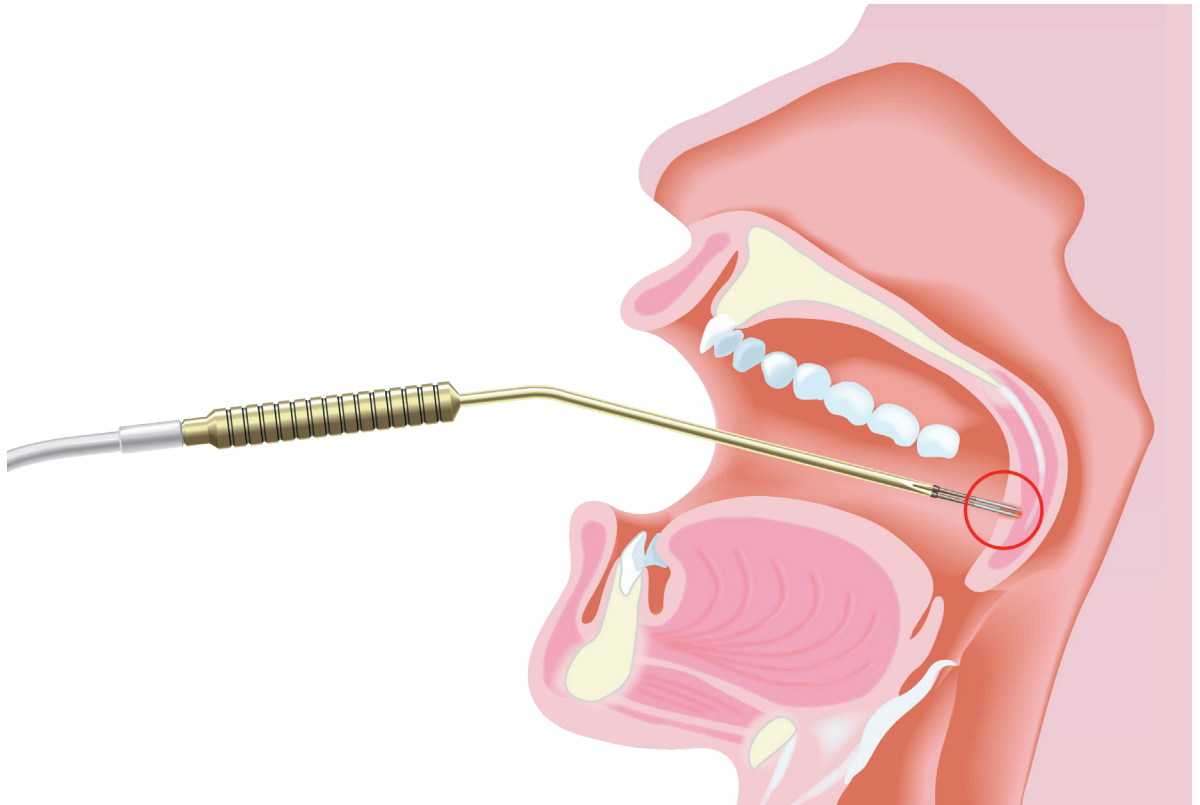
# Radiofrequency surgery

MAXIMUM  
PRECISION



## ATMOS RS 221 ENT

Radiofrequency surgery for: snore therapy, tonsillectomy, coagulation, and many other ENT applications



### Radiofrequency surgery in the ENT practice

Bipolar high-frequency technology has been used in ENT medicine for many years to safely close blood vessels — during surgeries as well as in the ENT outpatient clinic (e.g., for epistaxis). Developments of new device features — in particular increased electric field frequency — provide new opportunities for treatment in the areas of the throat, nose, pharynx, and ear thanks to the precise cutting function and the simultaneous individual adjustment of the degree of coagulation. The electrodes are individually primed for the application and facilitate the handling of the radiofrequency surgical device with minimal tissue stress.

Apart from the precise cutting function, radiofrequency technology also provides for new applications in the area of coagulation: special bipolar electrodes are used to reduce the volume of the nasal conchae and to stiffen the soft palate. During bipolar coagulation in automatic switch-off mode, the radiofrequency energy is stopped automatically as soon as the required tissue resistance has been achieved.

The ATMOS RS 221 ENT makes the new opportunities that radiofrequency surgery offers ideally available for use in ENT medicine. This makes handling easier for the doctor, and it lowers the risks of secondary bleeding and fosters faster wound healing for the patient.



## THROAT

## NOSE

## EAR

Type of treatment	Mono Cut channel 1		Mono Coag channel 2		Bipolar Coag channel 3		Recommended setting ATMOS RS 221			Recommended electrode form	Recommended REF
	Cutting	Cutting with coagulation	Continuous coagulation	Impulse coagulation	Bipolar continuous coagulation	Bipolar impulse coagulation automatic switch-off	Performance	Coagulation	Duration		
Uvuloplasty / palatoplasty	x						ca. 28–32 watts	C3	PRN	fine wire UPP special electrode	506.5881.0 506.5886.0
Lingual tonsils			x				ca. 22–30 watts	C2	8–10 sec.	rigid special needle electrode coated, multi-tip	506.5884.0
Tightening of the soft palate with automatic switch-off						x	ca. 5–15 watts	C2	A	bipolar needle electrodes palate	506.5887.0
Tightening of the lingual tonsils with automatic switch-off						x	ca. 5–15 watts	C2	A	bipolar needle electrodes palate	506.5887.0
Hyperplastic mucosa	x						ca. 22–27 watts	C3	PRN	ENT loop	506.5882.0
Nasal polyposis	x						ca. 26–30 watts	C3	PRN	ENT loop	506.5882.0
Rhinophyma	x						ca. 22–28 watts	C3	PRN	loop	506.5872.0
Epistaxis				x			ca. 22–24 watts	C4	10–15 sec.	bipolar forceps	506.5865.0
Radioconchotherapy			x				ca. 15–25 watts	C2	8–18 sec.	rigid needle electrodes	506.5885.0
Volume reduction						x	ca. 5–15 watts	C2	A	bipolar needle concha	506.5888.0
Otoplasty	x						ca. 22–28 watts	C3	PRN	multi-tip	506.5886.0

Important information:

The manufacturer cannot be held liable for wrong settings. The notes are recommendations only! The required settings depend on the tissue characteristics, the patient's age, the position of the neutral electrode, the electrodes used, the types of waves, and the device settings.

Please contact us in case of any questions.

## ATMOS RS 221 ENT — Radiofrequency surgery

### Bipolar coagulation

Safe hemostasis with bipolar forceps (e.g., epistaxis).

### Neutral electrode

The single-use neutral electrode is used for monopolar cutting and coagulation.

### Ergonomic handles

The ergonomically designed handles enable the safe use of radiofrequency technology in the operating field.

The handles are autoclavable at least 150 times at 134 °C in accordance with DIN 58946.

### Foot switch / bipolar mode

The device is started up via the foot switch when using bipolar forceps and electrodes in bipolar coagulation mode.

### Optimal device parameters

The strength of the radiofrequency wave is individually adjustable depending on the application and the tissue structure. This guarantees an optimal cutting function with an individually adjustable coagulation level.

*Illustrations and descriptions include optional functions as well as the basic equipment.*



## Automatic switch-off / bipolar coagulation

The automatic switch-off function ensures gentle and pain-free treatment during bipolar volume reduction of the nasal conchae and hardening of the soft palate.



## ATMOS RS 221 ENT

ATMOS RS 221 ENT with automatic switch-off	REF
<p>1 ATMOS RS 221 ENT Radiofrequency surgical device for cutting and coagulation in the ENT practice Characteristics: 4 operating modes: cutting, coagulation cutting, monopolar coagulation (continuous and impulse mode), bipolar coagulation (continuous, impulse, and automatic mode). Option to select probe operation via probe handle or foot switch possible. Memory function for storage of the last used data. Most ATMOS electrodes are reusable and autoclavable 70 times (see operating instructions). Included in delivery: Radiofrequency surgical device, accessory set monopolar (RS 221 ENT) (REF 506.5880.0), operating instructions. A bipolar set is not included in the scope of delivery. If required, please order the bipolar forceps (REF 506.5865.0) and bipolar cable (REF 506.5862.0) separately.</p>	<p>506.5900.0 (incl. accessory set monopolar (RS 221 ENT) REF 506.5880.0)</p>
Accessories	REF
<p>Accessory set monopolar (RS 221 ENT) Scope of delivery: Handle for cutting, yellow Handle for coagulation, blue ENT set of electrodes: - Cutting ENT needle electrode (extra long) - Cutting ENT loop electrode (extra long) - Coagulation ball-shaped electrode (extra long) - Coagulation electrode, needle electrode - Electrode, nasal radioconchotherapy - Electrode, uvulopalatoplasty - Self-adhesive disposable electrodes (50 pcs.) - Cable disposable electrode</p>	<p>506.5880.0</p>
<p>2 Handle for cutting, yellow For 1.6 mm electrodes, cable length L = 2.5 m, autoclavable</p>	<p>506.5851.0</p>
<p>3 Handle for coagulation, blue For 1.6 mm electrodes, cable length L = 2.5 m, autoclavable</p>	<p>506.5852.0</p>

Accessories		REF
4	Bipolar forceps, bayonet, L = 200 mm Width of the tip 1 mm, length of the tip 9 mm	506.5865.0
5	Bipolar cable, autoclavable, L = 2.5 m	506.5862.0



1 Radiofrequency surgical device  
from REF 506.5900.0



2 REF 506.5851.0



3 REF 506.5852.0



4 REF 506.5865.0



5 REF 506.5862.0

## Consumables

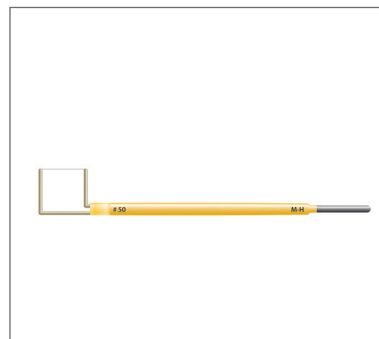
Consumables for ATMOS RS 221 ENT		REF
1	Self-adhesive disposable electrode Contact surface: 105 cm <sup>2</sup> Non-divided Without cable (for adults) Included in delivery: 50 pcs.	506.5878.0
2	Cable for disposable electrode, length = 3 m With plug for the ATMOS RS 221 and clamp connection with twin bolt to the disposable neutral electrode, autoclavable	506.5877.0
3	Electrode, uvulopalatoplasty <ul style="list-style-type: none"> <li>• Teflon-coated, for the safe and gentle removal of the uvula and soft palate.</li> <li>• For the treatment of chronic snoring (uvulopalatoplasty)</li> </ul> Shaft rigid Total length of insulated shaft: 66.5 mm Included in delivery: 1 pc.	506.5886.0
4	Cutting ENT needle electrode (extra long), #32 Flexible shaft, L = 125 mm, fine wire Included in delivery: 2 pcs.	506.5881.0
5	Coagulation ball-shaped electrode (extra long), #34 Flexible shaft, L = 125 mm, Ø ball 2.3 mm Included in delivery: 2 pcs.	506.5883.0
6	Cutting ENT loop electrode (extra long), #35 Flexible shaft, L = 125 mm, Ø loop 9 mm, fine wire Included in delivery: 2 pcs.	506.5882.0
7	Coagulation electrodes, needle electrode, #36 Coated and bent electrode for coagulation of the lingual tonsils and the sub-mucous UPP. Also very suitable for the preparation of fat tissue. L = 93 mm, length of needle 18 mm (12 mm isolated) Included in delivery: 1 pc.	506.5884.0



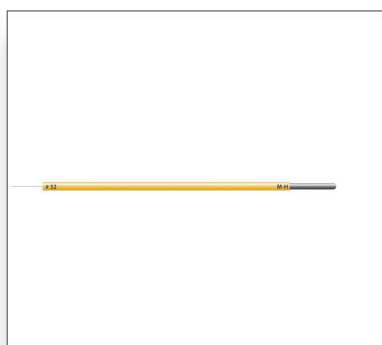
1 REF 506.5878.0



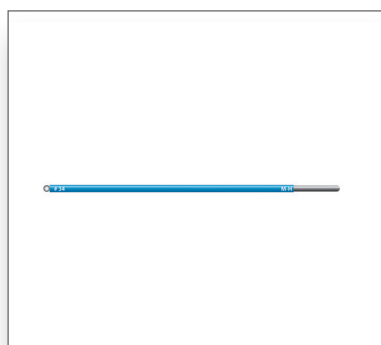
2 REF 506.5877.0



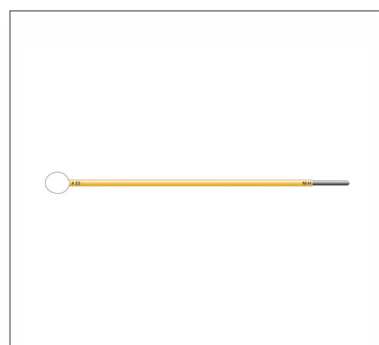
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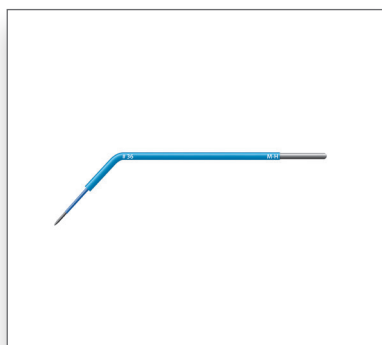
4 REF 506.5881.0



5 REF 506.5883.0



6 REF 506.5882.0



7 REF 506.5884.0

## Consumables

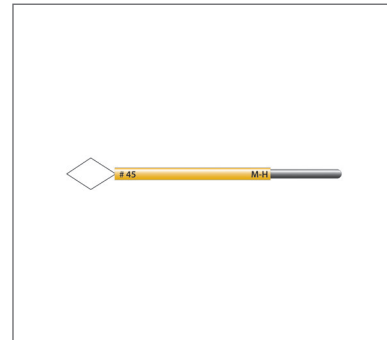
Consumables for ATMOS RS 221 ENT		REF
1	Cutting-electrode, round loop, Ø 13 mm, #43 Included in delivery: 2 pcs.	506.5871.0
2	Cutting-electrode, round loop, Ø 7 mm, #44 Included in delivery: 2 pcs.	506.5872.0
3	Cutting-electrode, rhombical, #45 Leg length 7 mm Included in delivery: 2 pcs.	506.5873.0
4	Coagulation-electrode, thick needle-electrode, #47 Ø 1.5 mm, needle length 10 mm, Total length of insulated shaft 31 mm, Included in delivery: 2 pcs.	506.5875.0
5	Coagulation-ball-shaped-electrode, Ø ball 2 mm, #48 Included in delivery: 2 pcs.	506.5876.0
6	Electrode, nasal radioconchotherapy #52 Bayonet-shaped, total length = 125 mm, length of needle = 25 mm (10 mm isolated), blue shaft Included in delivery: 1 pc.	506.5885.0
7	Bipolar needle electrode (puncture electrode), #03 For volume reduction of the nasal concha. Bent on the rear, isolated needles, ergonomic plastic handle. Total length 188 mm, needles 16 mm, isolation 6.5 mm, angled after 97 mm, angle 20 degree, autoclavable at 134 °C Included in delivery: 1 pc.	506.5888.0
8	Bipolar puncture electrode, bent at the top #04 For volume reduction of the soft palate and the lingual tonsils. Bent in front, isolated needles, ergonomic plastic handle. Total length: 193 mm, needles: 19.5 mm, isolation: 9.5 mm, bent after 169 mm, angle: 55 degree, autoclavable at 134 °C Included in delivery: 1 pc.	506.5887.0



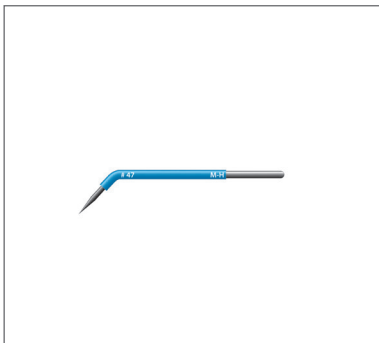
1 REF 506.5871.0



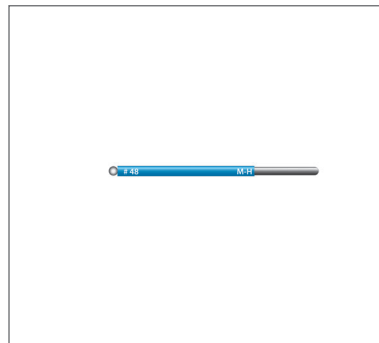
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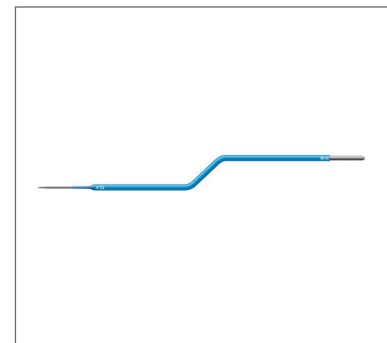
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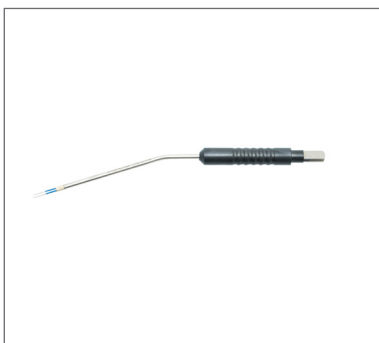
4 REF 506.5875.0



5 REF 506.5876.0



6 REF 506.5885.0



7 REF 506.5888.0



8 REF 506.5887.0



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