



# Dental equipment

for Implantology and Endodontic applications

# MD 11 – meets the heart of the matter

A Motor System capable of perfectly accomplishing any step of procedure in Implantology, due to it's wide range of motor management and gear ratio.

The new MD 11 together with its bigger brother, the MD 30 Motor System, are developed with the intention to put extra smoothness into your hands. The further development of its electronic motor and a sophisticated motor control are key players in this new generation of Nouvag motor systems.

This reflects also the new design with smooth edges for easy cleaning and a display that gives

you all the information at a glance. Single function keys with haptical and audible feedback guarantee for accurate device setup.

Inserting and changing of tube sets is carried out effortlessly by a front access push button and tube compartment. The tube bracket swings open and gives good view to the tube seat and the two notches to fix in the tube set.

A broad variety of extensions and accessories is provided by Nouvag AG and can anytime be added.

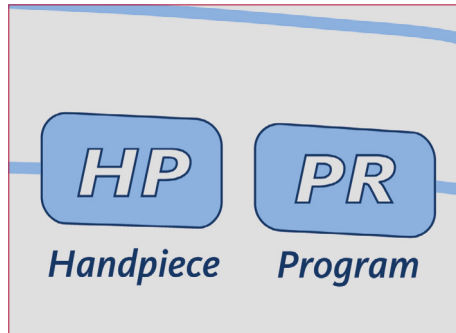
## Advantages

- Sophisticated motor control for smooth and precise power delivery in any speed range.
- Motor speed range of 300 – 40,000 rpm.
- 70 Ncm of maximum torque at the 20:1 Contra Angle with graphical, real time torque control.
- Sturdy, high quality architecture and finish.
- Integrated pump system for cooling the instrument to prevent of tissue damage.
- 4 programs for drilling, cutting threads, screwing in the implants and placing the cover screw.
- Handpiece 1:1 and Contra Angle 16:1, 20:1, 20:1 LED, 32:1 and 70:1 are available.



**This motor system for Implantology is available in different configurations.**

# MD 11 V 2.0

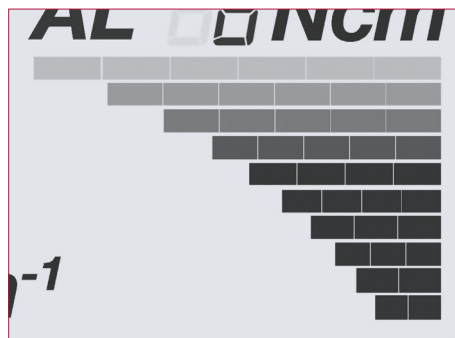


Every key stroke is accompanied by a soft chime which gives you a welcomed and assuring feedback while setting up your device.

In version 2.0, the logic of keyboard operation has been revised and now offers even higher comfort while setting up your device. A new, separate **program for thread cutting** has also been added. With the HP key (Handpiece) there are Handpieces with a gear ratio of 1:1, 16:1, 20:1, 32:1 and 70:1 selectable.



The compartment with the integrated tubing bracket opens smoothly and the tubing set can be fitted very easily. It can even be done with only one hand.



The real-time graphical representation of the actual torque recognizes varying resistors during use and gives a sense for occurring forces.

Type:	Implantology Motor System MD 11, V 2.0
Voltage:	100/115/230 Volt at 50 – 60 Hz
Max. output power/motor torque:	120 W/6 Ncm
Speed range, motor:	300 – 40,000 rpm
Max. torque at the instrument:	70 Ncm, 20:1 Contra Angle
Attachment of instruments:	ISO 3964 connector (DIN 13940)
Cable length of motor:	2 m
Coolant flow rate:	1 – 100 ml/min
Dimensions, W x D x H:	260/250/110 mm
Weight, control unit:	2.8 kg
Foot control:	Vario foot pedal

# MD 30, powerful and sturdy but intelligent and gentle

The new MD 30 motor system for Oral Surgery is the convincing result of more than 40 years of research and development in the field of Oral Surgery and Implantology. An outstanding solution, absolutely in line with our philosophy of providing implantologists across the world with complete systems that leave nothing to be desired.

This unique motor system for Oral Surgery and Implantology will considerably simplify your work and boost your efficiency. 10 stored programs for each of the two motors ensure smooth running during the procedure. The optimized controls of the motors allows you to accomplish your tasks individually with the highest possible precision, also with contra angles equipped

with LED, thus guaranteeing safety and confidence with every treatment. Edges and grooves are avoided for easy cleaning of the device. The pump chamber is designed such that any liquid entering passes straight out of the

housing. This is an important contribution to safety and may not be underestimated, before, during and after each use.

## Ergonomic housing

Lightest and smallest housing of its class. Simple to clean surfaces.

## Largest display of its class

Visibility in all work steps with a large, clearly arranged display with high contrast.

## Direct control

Without complicated navigation, the most important areas can be controlled quickly and directly.

## Control lamp for motor

The motor currently active is identified with a control lamp.

## Easy mounting of the tube set

Best visibility allows very ease tube set fixation.

## Low noise pump drive

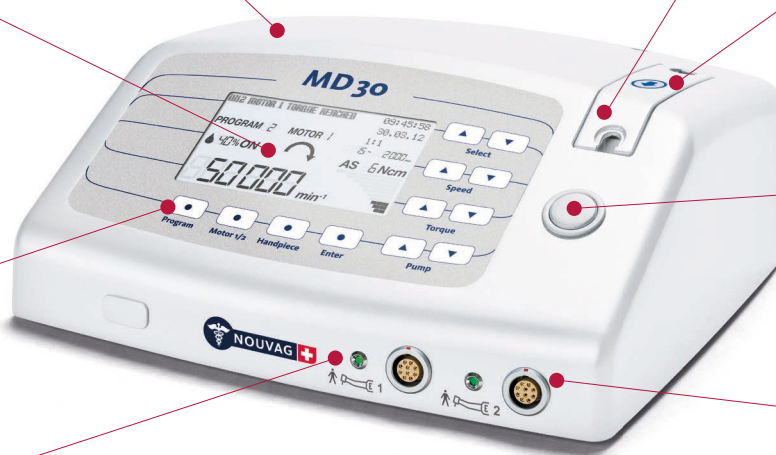
The coolant hose is easy to insert and the interior pump works at a low noise level.

## Front access to the pump

Access to the pump with just one hand is at the press of a button next to the display, hence no inadvertent movement of the device.

## Dual motor principle

The dual motor principle is unique in this class. It saves cumbersome reconfiguration of the Handpieces and contra angles and saves time.



**This motor system for Implantology is available in different configurations.**

# MD30



Type:	MD30
Mains voltage:	100/115/230 Volt at 50 – 60 Hz
Max. output power/motor torque:	120 W/6 Ncm
Max. torque on the rotating instrument:	70 Ncm with 20:1 Contra Angle
Motor speed range:	300 – 50,000 rpm
Attachment instruments:	ISO 3964 connector (DIN 13940)
Motor cable length:	2 m
Coolant flow rate:	1 – 100 ml/min
Width/depth/height:	260/250/110 mm
Weight control unit:	3.7 kg
Foot control:	Vario foot pedal

## Advantages







- Configuration menu to customize device after your favor.
- Intelligent safety system with acoustical and optical signal and additional blocking of motor drive (e.g. open pump compartment, not connected motor or pedal).
- 70 Ncm of maximum torque at the 20:1 Contra Angle with graphical, real time torque control on display.
- Sturdy, high quality architecture and finish.
- Integrated pump system for cooling of instrument to prevent of tissue damage.
- Advanced motor system with sophisticated motor control for smooth and precise power delivery in any speed range.
- Multifunctional pedal with motor selection, pump performance adjustment, programme selection and motor speed control.
- Calibration of Handpieces and contra angles.
- Real-time speed and torque report.
- 10 Pre-set programs each motor configurable.



# Handpieces for general dental applications

Straight and angled Handpieces made of medical stainless steel for wisdom tooth removal and surgery in oral and pharyngeal regions. Fully autoclavable, solid and durable. All equipped with INTRA EN3964 couplings and external cooling. The right Handpiece for every desired instrument length.



Handpieces with quick lock for instruments with a Ø of 2.35 mm and INTRA EN coupling.	Ref.	Transmission	Shaft-Ø	Instrument length	Max. rpm at Instrument	Max. Torque	Weight
	1047	1:3	2.35 mm	44 mm	900-150'000	2 Ncm	110 g
	1710	1:1	2.35 mm	44 mm	300-50'000	6 Ncm	65 g
	1950	1:1	2.35 mm	70 mm	300-50'000	6 Ncm	75 g
	1951	1:1	2.35 mm	95 mm	300-50'000	6 Ncm	80 g
	1960	1:1	2.35 mm	70 mm	300-50'000	6 Ncm	90 g
	1961	1:1	2.35 mm	95 mm	300-50'000	6 Ncm	95 g










## Electronic motor 21 with 2 meter cable length (Ref. 2097)

The electronic motor, the decisive connecting piece between the Control Unit MD11/MD30 and the Contra Angle, is worth mentioning because of its quiet, almost free of vibration, smooth power delivery in any speed range. In connection with Nouvag Handpieces and Contra Angles a well balanced unity is the result, that pleasantly rests in your hand. The smooth run of this unity goes easy on the patient as well as on the surgeon but delivers full power anytime when needed.

# Handpieces for implantological applications

Fully autoclavable Contra Angles made of medical stainless steel, solid and durable, available with different transmissions, all equipped with INTRA EN3964 couplings, external cooling and optional internal cooling to prevent of tissue damage. The solid construction and its well designed details guarantee for long life and make them fully autoclavable.



Contra Angles with dental shaft, push button locking system and INTRA coupling	Ref.	Transmission	Shaft Form	Shaft-Ø	Clamping length	Speed range, Instrument	Max. torque	Weight
	5050	1 : 1	Dental	2.35 mm	13 mm	300 – 50'000	6 Ncm	63 g
	5109	2 : 1	Dental	2.35 mm	13 mm	150 – 25'000	12 Ncm	63 g
 <i>Available also with Latch system Ref. 5060</i>	5200	16 : 1	Dental	2.35 mm	13 mm	20 – 2800	27 Ncm	90 g
	5053	20 : 1	Dental	2.35 mm	13 mm	15 – 2100	70 Ncm	90 g
 <i>Available also with Latch system Ref. 5054</i>	5201	32 : 1	Dental	2.35 mm	13 mm	10 – 1200	55 Ncm	90 g
	5065	70 : 1	Dental	2.35 mm	13 mm	5 – 700	55 Ncm	82 g
<b>20 : 1 Contra Angle with LED and Hexagon Clamping mechanism</b>								
	5052	20 : 1	Hexagon Shaft	2.35 mm	13 mm	15 – 2100	70 Ncm	100 g

# Great Micro Saws

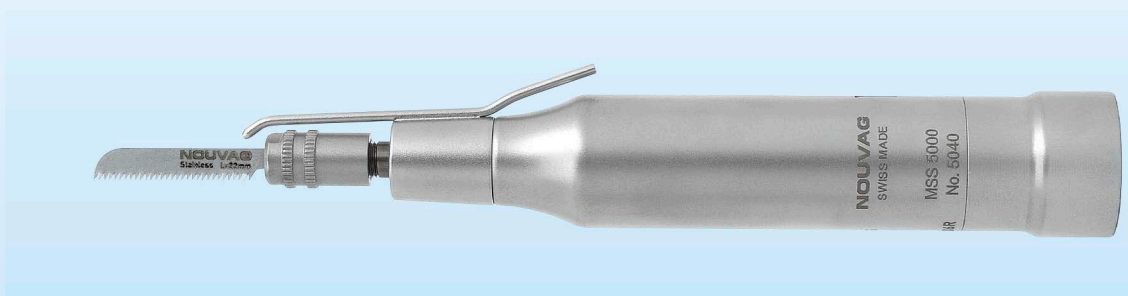
Nouvag's robust micro saws are characterized by a notably well cutting performance and the housing made of medical stainless steel guarantees for carefree durability despite of countless reprocessing cycles.

## Micro Compass Saw

Ref.

5040

**MSS 5000 Micro-jigsaw** with INTRA EN3964 coupling, removable irrigation tube, recommended speed 15,000 rpm. The micro-jigsaw for sawing and rasping with tools of different lengths and designs.



## Sagittal Saw, Osseoscalpel

Ref.

5110

**MOS 5000 Sagittal Saw** with INTRA EN3964 coupling, removable irrigation tube, recommended speed 15,000 rpm. The sagittal saw is ideal for applications in which the two other saws are unsuitable for reasons of space.

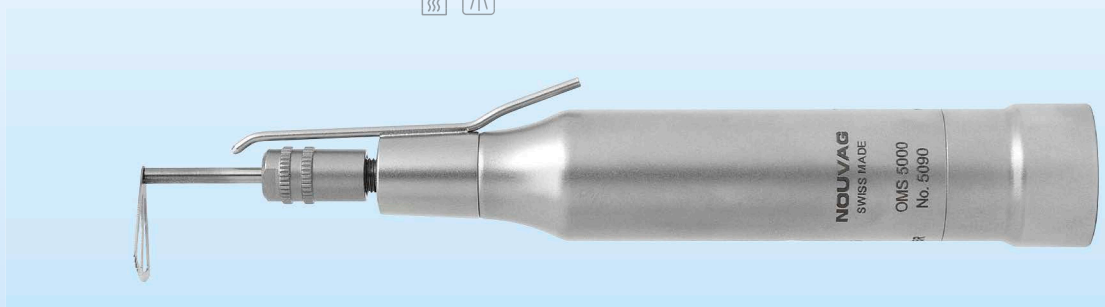


## Micro Oscillating Saw

Ref.

5090

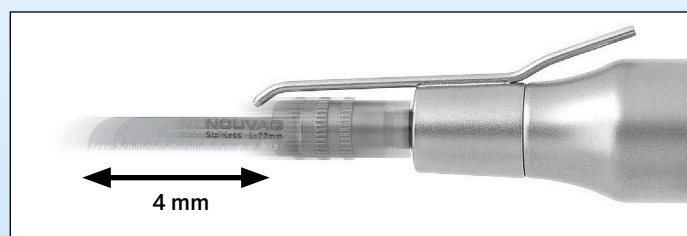
**OMS 5000 Oscillating micro-saw** with INTRA EN3964 coupling, removable irrigation tube, recommended speed 15,000 rpm. These micro-saws are used in all applications, where it's necessary to cut at right angles.





Our micro saws are mainly applied in Osteotomy for bone treatment, bone removal and for harvesting of osseous matter. A quiet, low vibration, smooth run was the declared target while constructing the micro saws. The large assortment of saw blades will support all intended purposes.

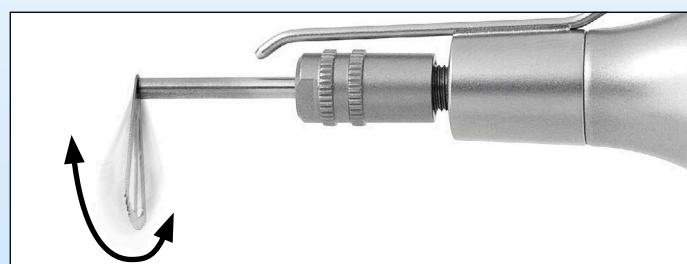
The further developed Micro Compass Saw works with a stroke of 4 mm at 75 strokes per second, which significantly enhances the cutting performance.

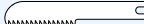

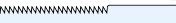
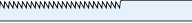
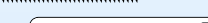
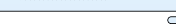
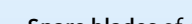


The Micro Sagittal Saw has an oscillation frequency of 250 cycles per second. Saw blades are often bent to match the correct angle of an intended cut.





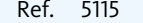


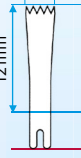





The Oscillating Micro Saw works with a frequency of 266 oscillations per second.




Saw blades	length	Ref.
	11 mm	5041
	14 mm	5042
	18 mm	5043
	22 mm	5044
	26 mm	5045
	17 mm, rounded	5105
	21 mm, rounded	5106

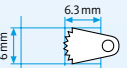



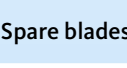
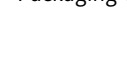
Spare blades of 0.4 mm thickness, in PU\* of 6 pieces.

	Ref.	5049
	Spare blades set with one piece each of 11, 14, 18, 22 and 26 mm length and 0.4 mm thickness.	
		
		
		

Ref.	5115	5116	5114	5117	5118	5119
	4 mm	6 mm	6 mm	6 mm	10 mm	12 mm
						
	12 mm			17 mm		29 mm

Spare blades of 0.4 mm thickness, in PU\* of 6 pieces.

	Ref.	5120
Spare blades set with one piece each of every size mentioned.		

Saw blade	Cutting depth	Shaft length	Ref.
	6.3 mm	33 mm	5100
	6.3 mm	45 mm	5099
	13.3 mm	33 mm	5093
	13.3 mm	45 mm	5096
	13.3 mm	33 mm	5094
	13.3 mm	45 mm	5097
	13.3 mm	33 mm	5095
	13.3 mm	45 mm	5098

Spare blades of 0.4 mm thickness! PU\* with one piece.

\* Packaging Units

# TCM Endo R 11, user friendly with reciprocal mode

The TCM Endo R 11 is an elegant, very compact and user friendly device with a display that shows all the informations at a glance. There is also the reciprocal function available.

Prevention of file breakage by reverse rotation at the reach of the preset torque.  
The lightweight, ergonomic Handpiece is distinguished by low vibration operation and its special case, made of PEEK makes it fully sterilizable. The changing of the files is made easy by push button operation. The speed range covers all requirements for the root canal preparation.



- Works with all common NiTi files.
- Economical treatments.
- Free of problems, high quality treatments.
- Reverse mode at torque limit reduces file breakage.
- Good price-/performance ratio.
- Reciprocal mode.



Ref. 1518  
with 2 : 1 Contra Angle

Type:	TCM Endo R 11
Input Voltage (switchable):	100/115/230 Volt at 50-60 Hz
Motor Type:	DC
Speed range at Contra Angle:	150 – 650 rpm
Torque at Contra Angle:	1 – 60 Nmm
Dimensions, control unit:	115 x 180 x 100 mm, (W x D x H)
Weight, control unit:	1.1 kg
File type:	Full range of files with a shank-Ø of 2.35 mm (ISO 1797: type 1)

# TCM Endo V, for root canal preparation with Apex Locator

The TCM Endo V is a microprocessor controlled Motor System for fast and easy root canal preparation with rotary instruments. Built-in Apex Locator for exact determination of the apical distance.

The TCM Endo V control unit for root canal preparation with Apex locator and preset keys for the automatic reduction of the rotational speed, the automatic stop function and the automatic reverse at the reach of the apical foramen is responsible for very accurate results in root canal preparation. The torque control together with the automatic reverse at the reach of the apex reduces the possibility of file breakage.

The ergonomic lightweight Handpiece is characterized by its smooth, free of vibration run. The high speed range of the motor together with the control unit allows the use of high speed files.



Type:	TCM Endo V
Input Voltage (switchable):	100/115/230 Volt at 50-60 Hz
Motor Type:	DC
Speed range, Contra Angle:	150 – 2000 rpm
Method of measurement:	Impedance measurement, difference calculation
Measuring tolerance for Apex:	± 0.2 mm
Torque at Contra Angle:	2 – 50 Nmm
Test Voltage frequencies:	500 Hz and 7.5 kHz
Dimensions, control unit:	120 x 115 x 185 mm, (W x H x D)
Weight, control unit:	1.8 kg
File type:	Full range of files with a shank-Ø of 2.35 mm (ISO 1797: type 1)

# Surgery unit with MD 30 and Vacuson 40 on Sanicar

Dentists often work with in-house suction systems. That's fine. But when you start with implantology you might want to save your in-house pump from contamination of secretions and quite a lot of blood. Therefore we offer our Vacuson 40 suction pump for implantology as a closed system which makes it easy to maintain and clean.



The Nouvag Device carrier rolling car, SANICAR, is ideally predestined to carry the Implantology motor system MD 30/ MD 11 and the VACUSON 40 suction pump. The so called Surgery Unit can conveniently be displaced from a side room to the dentist's room while sufficiently long cables make sure to have good access to the patient.

The secretion jars from the suction pump can be emptied and cleaned in the side room, while the dentist's chair is already occupied by the next patient.

With blood and secretions contaminated bottles and equipment are no longer a disturbing factor in your practice and your in house pump system is ready to use with the next patient, because for the suction of blood and secretions in implantological applications the Vacuson 40 suction pump was used.

Save your in-house pump system from contamination and as a consequence thereof costly cleaning and maintenance efforts.

# Vacuson 40



The SANICAR is equipped with its own plug bar in which all devices can maintain plugged in. To switch all devices on or off use just the one switch at the backside of the SANICAR.

When putting away the surgery unit, just switch off the main switch of the SANICAR and unplug the main power line. Like that your practice is cleaned up in a minute and you can focus on the next patient.

While applying the Vacuson 40 pump your in house pump system is safe from soiling and odors, thus expanding the pumps service life and keep the cost for maintenance low.

The Vacuson 40 suction pump delivers its task quiet and with low vibrations. The exhausted air is filtered by the combination of a hydrophobic bacteria filter and a rough air filter. The bacteria filter closes immediately if secretion is sucked in or when humidity was building up. That safes the pump from cloaking and defects.

## Vacuson 40

- Economic due to excellent price/performance ratio
- Precise and continuously adjustable suction performance
- Solid, reliable and approved technology
- Low noise and vibrations
- Automatic overflow safety
- Oil free piston pump

Type:	<b>Vacuson 40 (Ref. 4227)*</b>
Input Voltage:	115/230 Volt at 50-60 Hz
Power consumption	185 W
Suction performance:	Up to 40 l/min.
Max. Vacuum:	-0.9 bar at 686 mmHG
Dimension, control unit (W x D x H):	360 x 290 x 280
Weight, control unit:	8.5 kg

\* Only suction unit, without bottles, jar lid and Cannula



# Extensions and Accessories

Ref. 4122

The **STAND** is a mobile device carrier. It's equipped with a bottom shelf and a top shelf, on which different devices can be mounted. The STAND comes with 4 antistatic rolls, from which 2 are lockable



Ref. 1898

The **SANICAR** is a mobile device trolley for transporting or carrying a maximum of 3 devices. It is equipped with three bottom trays, an optional hanger rod for a bottle and a multiple socket outlet with 3 sockets and an illuminated main switch. Four suction jars can be adapted on the top tray or some similar accessories. The SANICAR comes with antistatic rolls from which two are lockable.

Ref.

## Spray nozzles for Nou-Clean-Spray

for electronic motor 21 1974  
for Endodontics, Apex contra angle (blue) 1933  
for contra angles with INTRA couplings 1958  
for electronic motor 31ESS 1942



Ref. 1984

## Nou-Clean Spray

For care and maintenance of electronic motors and Handpieces.



Ref. 6025

**Tube set with integrated 3 way cock, for MD 20 and MD 30** to cool both Contra Angles at the same time. Sterile, disposable tube set.



Ref. 1706

**Tube-Set for MD 10, MD 11 and MD 30** for cooling a single Contra Angle. 2 meter sterile, disposable tube set.



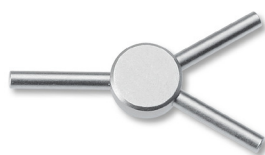
Ref. 6024

**Tube-Set for MD 20** for cooling a single Contra Angle. 3 meter sterile, disposable tube set. (without illustration)



Ref. 1773

**Connecting tubes** between Y-Connector and the cooling system of the contra angle. Length 16 cm/20 pieces per packing unit.



Ref. 1777

## Y-Connector

If you want to use your contra angle with internal and external cooling, you will have to add an Y-Connector to the tube set. The branching will be completed with two short silicone tubes, which connect to the contra angles cooling system.



Ref. 1873

## Clips motor cable

To clamp the tube set to the power cord.



Ref. 1881

## Clips for contra angle

To clamp the tube set to the contra angle.



Ref. 1805

## Handpiece for manual cooling

To wash out wounds, with changeable cannulae with LUER lock.



Ref. 4105

## Spare cannulae

Compatible to Ref. 1805





Ref. 1970

### Mucotome

The Mucotome for treating oral mucosa, works with a cutting thickness of 0.5 mm and a width of 6 mm.



Ref. 5010

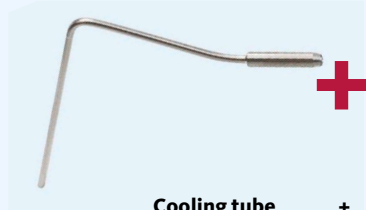
### Kirschner Handpiece

This Kirschner Handpiece was developed for difficult-to-access regions. The small head ensures maximum room for manoeuvre.



Cooling tube Ref. 39150

Plastic clip Ref. 39149



Cooling tube +



Plastic clip =

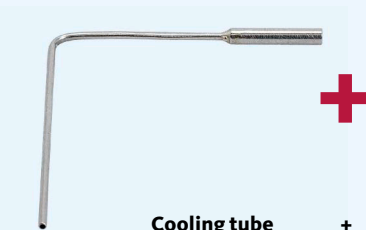


Cooling clip for LED-Contra Angle



Cooling tube Ref. 39116

Plastic clip Ref. 39117



Cooling tube +



Plastic clip = Cooling clip for Push Button-Contra Angles



Ref. 1078

### Suitcase for TCM Endo R11

This practical suitcase was lined to house the TCM Endo R11, our device for root canal preparation. There is enough space for the complete set and even further accessories (W x D x H = 44 x 33 x 15 cm).

This suitcase is good for storing and for transport, because it's light and the handle is very ergonomic in your hand. Your device is protected by an aluminum shell outside and a foamed rubber at the inside. The clasps are equipped with a lock.



Ref. 1029

### Suitcase for MD11/MD30

This aluminum suitcase was lined to house the Nouvag motor systems MD11 and MD30 for Implantology. Further accessories, like Contra Angles and a second electronic motor can be added easily (W x D x H = 52 x 44 x 24 cm).

The suitcase is lockable and your device is protected by an aluminum outer shell and foamed rubber at the inside. It's both, good for storage and good for transport due to its lightweight and its practical, ergonomic handle.





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