

Safety measures



- We deliver an unsterile Contra Angle. Clean, disinfect, and sterilize the Contra Angle before the first application and immediately after each use!
- Do not clean the Contra Angle with compressed air!
- The Contra Angles may be applied with max. 50,000 rpm!
- Do not operate the Contra Angle while the motor is running!
- Do not attempt to open the chuck while the motor is running!
- The instrument may be operated by qualified personnel only!
- Improper use or repair, or failure to observe these instructions, relieve us from any obligation arising from warranty provisions or other claims.

Intended use and indication

The contra-angle handpieces are intended for use in dental practice for implantology, prophylaxis, restoration, maxillofacial and facial surgery. The intended use is obvious to the trained user.

Contraindications and limitations

Relative or absolute contraindications can occur from general medical diagnosis or in special cases where the patient risk is significantly higher with motor-driven systems. Corresponding cases in the literature must be considered.

Symbols

	Conform to EU standards		Autoclavable at 134°C		Suitable for thermal disinfection		Note
	Warning		Manufacturer		Observe instruction for use		Serial number
	Order number		European authorized representative		Disposal note		Date of manufacturing
	Lot number						

Technical data

Transmission (REF)	1:1 (5051nou)	2:1 (5109nou)	16:1 (5200nou)	20:1 (5053nou)	32:1 (5201nou)
Coupling standard	ISO 3964				
Shank-Ø in mm	2.35 Type 1, according to ISO 1797				
Minimum clamping length	up to the stop				
Permissible maximum length of the rotating instruments	34 mm				
Max. working diameter of rotating instruments	According to the data of rotating instruments manufacturer in connection with the working speed				
Speed range in rpm.	300 – 50,000	150 – 25,000	20 – 2800	15 – 2100	10 – 1200
Max. torque in Ncm	6	12	27	70	55
Weight in g	70	65	88	88	92
Cooling, internal/external	-/•	•/•	•/•	•/•	•/•

Internal irrigation tube



Operation

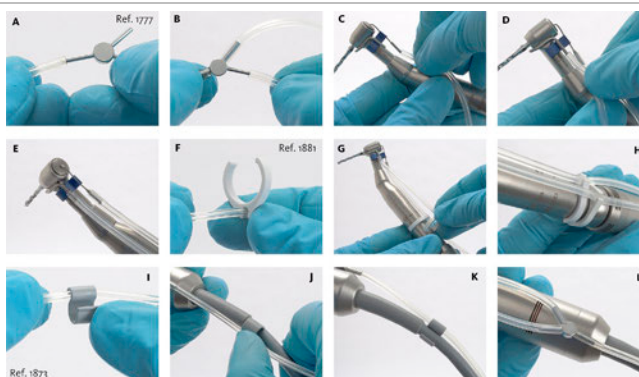
External cooling:

- Connect the open end of the irrigation tube set with the cooling pipe of the Contra Angle.
- Attach white clip to the tube set.
- Attach white clip with tube set to the Contra Angle.
- Connect the electronic motor with the Contra Angle.
- Attach grey clip to the tube set.
- Attach grey clip with tube set to the cable of the motor
- Ready to use drill unit with attached external cooling system.

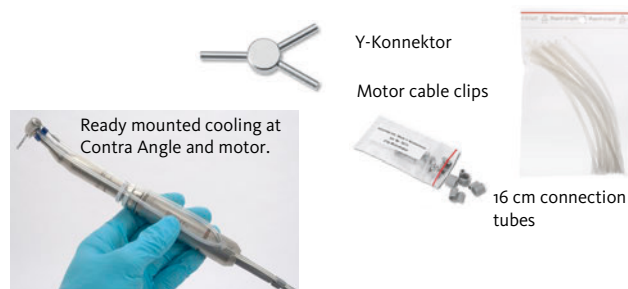


Internal/external cooling:


- Attach open end of the tube set (REF 1706) to the single out branch of the Y-connector.
- Connect a 16 cm piece of tube to each of the branching tubes of the Y-connector.
- Connect one of the 16 cm pieces of tube, that branch out of the Y-connector, with the internal cooling tube of the contra angle (delivered together with the contra angle or REF 39116).
- Connect the second piece of tube that branches out of the Y-connector with the external cooling pipe of the contra angle (welded on laterally to the contra angles head).
- Both 16 cm pieces of tube are now connected to the cooling system of the contra angle.
- Secure a white tube clips (included with the contra angle to each of the short tube pieces.
- Secure tube clips to the contra angle.
- Contra angle with attached tube clips.
- Fix a gray clip to the tube set leading to the Y-connector.
- Fix tube set with the gray clip to the motor cable.
- Motor cable with ready attached tube set to the motor cable. Secure further gray clips to the motor cable if needed.
- Tube set routing with Y-connector for internal and external cooling of the instrument.



Essential accessories for internal cooling:



Preparation instructions

Treatment	Frequent reprocessing hardly affects the Contra Angles. The products life end is usually determined by damage, wear and tear caused by usage. The contra-angle handpiece is designed for a maximum of 250 sterilization cycles.	
INSTRUCTIONS		
Location of use	Wipe dirty surfaces with an expendable cloth/tissue paper.	
Storage and transport	No special requirements. Avoid lengthy waiting periods before preparation because of risk of drying and corrosion.	
Cleaning preparations	Remove burr, irrigation tubing, tube clip and cooling clip from contra angle. Remove visible soiling with cold water. Don't use ultrasonic bath.	
Automatic cleaning and disinfection	<p>Equipment: Cleaning/disinfection device with a special loading carrier, which ensures Handpiece connection to the cleaning/disinfection device and channel irrigation. A fine-meshed basket shall be used for the small parts. Rinse the Contra Angle from the rear. Use a neutral or alkaline cleaning agent in the recommended concentration.</p> <ol style="list-style-type: none"> 1. Load Contra Angle in the load carrier (irrigation of the channels must be ensured). 2. Place small parts into fine-meshed basket and close it. 3. Set cleaning cycle with effectual rinsing and cleaning. Carry out a rinse cycle with demineralized water. 4. For thermal disinfection rinse with demineralized water at 93°C for 10 minutes. 5. By taking the Contra Angle out check whether there's still visible dirt in gaps. If necessary, repeat cycle or clean manually. 	
Manual cleaning	<p>Equipment: Neutral cleaning agent, soft brush, running cold water</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. Rinse surface dirt off the Contra Angle as well as small parts under running water. 2. Apply cleaning agent with brush on all surfaces and gaps. 3. Thoroughly rinse the Contra Angle under running water. <p>Spray the inside and outside of the contra-angle handpiece with Spraynet to remove the rinsing water immediately. This prevents damage and blockages of internal components. If necessary, wipe with a sterile non-woven cloth.</p>	
Manual disinfection	For manual disinfection, wipe the Contra Angle and small parts with a cloth soaked in disinfectant solution on an ethyl alcohol basis.	
Drying	If the drying/disinfection equipment does not provide any drying program dry Contra Angle and small parts manually or in a drying chamber.	
Inspection and care	Check for visual damage, corrosion, and wear. After the disinfection spray the handpiece thoroughly and briefly with Lubrifluid with attached blue spray adapter, and wipe with a DI water moistened cloth (see instructions on the spray can). Check the cooling clips for blockage. If necessary, repeat the cleaning cycle. Afterwards, attach cooling clips back onto the handpiece.	
Packaging	Single: Pack the Contra Angle in an individual sterile supply package. The bag must be large enough that the seal is not under tension. Sets: Arrange the Contra Angles into the foreseen trays or put onto an all-purpose sterilization tray.	
Sterilization	<p>The instruments are sterilized using a fractionated pre-vacuum steam sterilization process (in accordance with DIN EN 13060 or DIN EN 285), considering the respective national requirements.</p> <p>Minimum requirements:</p> <ol style="list-style-type: none"> 1. Pre-vacuum phases: 3 2. Sterilisation temperature: minimum 132°C to maximum 137°C 3. Holding time: At least 5 minutes (full cycle) 4. Drying time: At least 10 minutes <p>When sterilizing several products in one sterilization cycle, the maximum load of the sterilizer must not be exceeded (see manufacturer's instructions). In the case of autoclaves without a vacuum, a drying phase must take place. After the sterilization, the perfect sterilization result must be checked with the help of appropriate indications. According to the Robert Koch Institute, reprocessing ends with the documented release of the medical device for use. If the sterilized instruments are not used immediately after sterilization, the packaging must be labelled with the sterilization date.</p>	
Storage	No special requirements. If the sterilized Contra Angle is not used immediately after sterilization the package must be marked with the sterilization date. Nouvag AG recommends adding a sterility indicator to the package.	

Ambient conditions

	Transport and storage:	Operation:
Relative humidity:	Max. 90%	Max. 80%
Temperatur:	0 - 60°C	10 - 30°C
Atmospheric pressure:	700 - 1060 hPa	800 - 1060 hPa

Troubleshooting

Problem	Cause	Solution
Motor is running, but tool does not turn	Contra Angle is not connected properly to the Motor	Press Contra Angle firmly on Motor, until Contra Angle snaps in. Check fitting
Tool functions irregularly	Tool is not clamped properly to the Contra Angle	Fix tool and tighten chuck
Contra Angle is noisy	Ball bearings are not lubricated or dirty	Spray the Contra Angles interior with Lubrifluid


Spare parts and accessories

REF	Description	Units
1777	Y-connector	1 piece
1773	Tubing for Y-connector (160 mm)	20 pieces
1881	Clip-Set complete (3 Clips)	1 piece
1969	Wrench for Contra Angle	1 piece
1882	Oil bottle	1 piece
1940	Cleaning pin	1 piece
2127	Spraynet	1 piece
2128	Lubrifluid	1 piece

Manufacturer and Service provider

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The complete list of all Nouvag-authorized service points worldwide is found on our website:
www.nouvag.com/en/service/service-provider

Complaints

 In case of problems with the product, or in the event of a serious incident, please contact the manufacturer immediately using the following form (<https://nouvag.com/en/contact-us/incident-questionnaire>): compile and send as PDF to this email address: complaint@nouvag.com

Disposal

 Disposal of device, components and accessories must strictly conform to local laws and regulations as set out by the relevant authorities.