



- We deliver an unsterile electronic motor. Clean, disinfect, and sterilize the electronic motor before the first application and immediately after each use!
- Do not bend the motor cable, to prevent of cable brake!



- Any guarantees on our part or other claims against us become void in the case of inappropriate use of the electronic motor or failure to comply with our instructions!

## Intended purpose

The electronic motors 31 ESS are equipped with handpiece carriers according to ISO 3964, which enable the attachment of handpieces and contra angles and ensure secure hold.

The electronic motor 31 ESS in conjunction with a control unit and corresponding handpiece is used in the following medical indications:

**Plastic surgery**  
**Spine surgery**  
**Traumatology**

**Facial and cranial surgery**  
**ENT surgery**  
**Orthopedics/Arthroscopy**

**Gynecology**  
**Urology and laparoscopy**  
**Oral/maxillary surgery, dental implantology**

The electronic motor 31 ESS may only be operated by qualified and trained personnel. Improper operation can lead to malfunctions.

The intended use is clearly described in the instructions for use of the corresponding device/instrument.

## Contraindication/Limitations

Relative or absolute contra indications can arise from the general medical diagnose, or in special cases by a significantly increased risk to the patient through the use of motor-driven devices. Relevant cases in the literature must be taken into consideration. The electronic motor 31 ESS may only be connected to and operated with Nouvag AG control units. The use of handpieces & contra angles by other manufacturers in conjunction with the electronic motor 31 ESS is the responsibility of the user. Switching on the electronic motor 31 ESS without holding it, or correctly placing it in the handpiece holder leads to uncontrolled movements of the motor.

## Symbols

	Caution		Manufacturer		LOT number		Autoclave at 134°C		Reference number		Note on disposal
	Caution, hot surfaces		Date of manufacturing		Follow the instructions for use		Suitable for thermal disinfection		Serial number		

## Technical Data

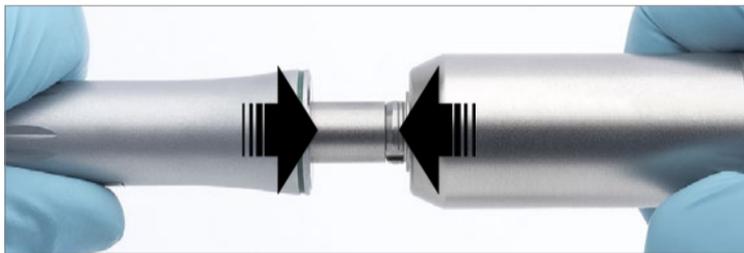
		2063nou	2064nou	2058nou
Weight, without cable	g	310	310	310
Torque max.	Ncm	6	6	6
Output max.	VA	120	120	120
Current max.	A	6	6	6
Rated voltage	V	35	35	35
Rated speed	rpm	40000	40000	40000
Coupling		ISO 3964	ISO 3964	ISO 3964
Cable length	m	2,0	3,0	4,0

## Overview

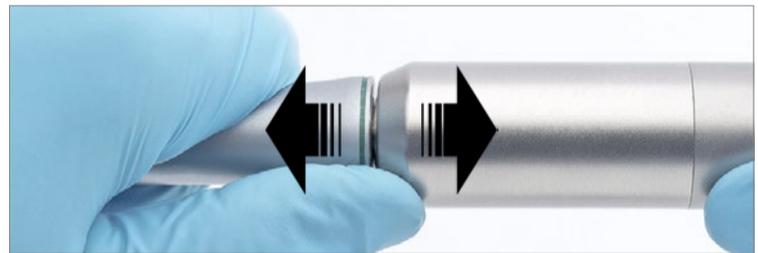


## Operation

### Coupling handpieces with the electronic motor 31 ESS.



Slide Handpiece over the handpiece carrier and press at the stop until it engages. Check for good seating with a counter movement.



Disconnect coupling with a short, strong pull and slide off the handpiece from the handpiece carrier of the electronic motor.

## Reprocessing instructions



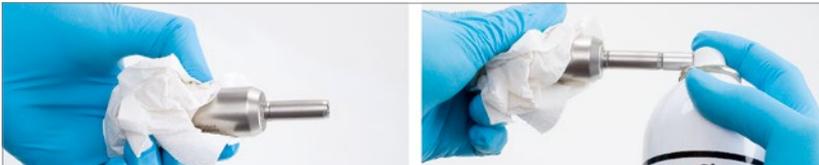
### Caution

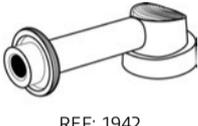
With regard to patients with Creutzfeldt-Jakob disease or its variant (vCJD), no responsibility can be assumed for the reuse of the electronic motor. The Robert Koch Institute recommends withdrawing used products from circulation to avoid infecting other patients, users and third parties.



### Attention

Never clean the motor in an ultrasonic bath. This will impair the functionality of the motor.

<b>General handling</b>	<ol style="list-style-type: none"> <li>1. Every electronic motor must be thoroughly cleaned, disinfected and sterilised before initial operation (products straight from the factory) and also immediately following each use. Only a cleaned and disinfected electronic motor permits proper sterilisation!</li> <li>2. The electronic motor should always be treated with utmost care when being transported, cleaned, serviced, sterilised and stored.</li> <li>3. We recommend the use of mild alkaline and enzymatic cleaners with as low a content of silicate as possible in order to avoid staining (silicating) the electronic motor.</li> <li>4. Only commercial grade DGHM-/VAH-listed agents may be used for cleaning and disinfection. See these agent manufacturers' specifications for the method of use, action time and suitability of disinfection and cleaning substances.</li> <li>5. Follow precisely the operating instructions of the devices used during preparation.</li> <li>6. The end of the product life can be reached before reaching the maximum 250 sterilization cycles in case of excessive wear and damage by use.</li> <li>7. Do not overload dishwashers. Avoid dead zones. Pay attention to secure storage in the machine.</li> <li>8. Follow the applicable regulations in your country for reprocessing medical devices.</li> <li>9. Nouvag AG recommends using a screen basket including a rinse strip from 3mach (Nouvag AG REF: 51401), a re-usable container for preparation and storage (incl. transport) of products. The screen basket can be used to keep products safe both during the rinsing cycle and also during and after sterilisation until the products are used. The screen basket is suitable for use with sterilisation paper or a rigid sterilisation container. It has no barrier effect itself in order to maintain sterility.</li> </ol>
<b>Preparation preliminaries at the point of use</b>	After surgery immediately remove blood, secretion, tissue and bone residue with a disposable cloth/paper towel, do not allow to dry! Dried residues cause corrosion.
<b>Safe-keeping and transport</b>	Contaminated products must be stored and transported to the preparation site in a closed container to avoid damaging the products and contaminating the environment.
<b>Pre-cleaning for cleaning and disinfection</b>	<ol style="list-style-type: none"> <li>1. Wipe down the electronic motor with a damp disposable cloth/paper towel while removing all visible impurities.</li> <li>2. Unscrew the motor cover and remove the cable including the motor cover.</li> </ol>  <ol style="list-style-type: none"> <li>3. Brush down the plastic parts of the electronic motor under running tap water with a soft brush (manufacturer Insitumed GmbH, REF MED100.33).</li> <li>4. Rinse the outer surface of the electronic motor for 10 seconds with a water pistol (at a pressure of at least 2.0 bar).</li> <li>5. Then spray the electronic motor with Lubrifluid (see the Section „Inspection and care“).</li> </ol> 

<p>Cleaning</p>	<p><b>Mechanical cleaning</b></p> <p> Mechanical cleaning is only successful if the pre-cleaning, described above, is adhered to!</p> <ol style="list-style-type: none"> <li>Place the electronic motor and accompanying parts in the strainer basket after pre-cleaning.</li> <li>Cleaning is done using the Vario TD programme in the cleaning and disinfection unit (CDU). For the cleaning process it's advisable to use DI water (fully desalinated water).</li> <li>After completing the cleaning programme (incl. thermal disinfection) check the electronic motor, motor cover with cable, hand-piece carrier and O-ring for visible contamination in grooves and gaps. Repeat cleaning if necessary.</li> </ol>	<p><b>Automatic cleaning process (Vario TD programme)</b></p> <ol style="list-style-type: none"> <li>Pre-clean for 4 minutes with cold water &lt; 40°C.</li> <li>Empty</li> <li>Clean for 5 minutes at 55°C with 0.5 % alkaline or at 40°C with 0.5 % enzymatic cleaner.</li> <li>Empty</li> <li>Neutralise for 3 minutes with cold water &lt; 40°C.</li> <li>Empty</li> <li>Inter-rinse for 2 minutes with cold water &lt; 40°C.</li> <li>Empty</li> </ol>
<p>Disinfection</p>	<p><b>Mechanical disinfection</b></p> <p>The cleaning/disinfection unit has a thermal disinfection programme which follows the cleaning. When performing mechanical thermal disinfection, give due consideration to the national requirements relating to the A0 value (see DIN EN ISO 15883-1). We recommend an A0 value of 3000 for the electronic motor and its accompanying parts. Disinfection must be carried out with DI water.</p>	<p> <b>Caution</b></p> <p>When inadequately rinsed or exposed to the disinfectant or detergent for too long, the electronic motor and its accompanying parts can corrode. Please see the corresponding detergent and disinfectant's instructions for use for dwell times.</p>
<p>Drying</p>	<p><b>Mechanical drying</b></p> <p>Dry the electronic motor and accompanying parts using the cleaning/disinfection unit's (CDU) drying cycle. Then spray the electronic motor again with Lubrifluid.</p> <p>Every CDU must provide a corresponding drying procedure through the manufacturer (see ISO 15883-1). Please follow the corresponding CDU-manufacturer's directions and operating instructions.</p>	<p><b>Manual drying</b></p> <p>If required, manual drying can also be achieved by using a lint-free cloth.</p> <p>When drying manually, take particular care with the grooves and gaps of the electronic motor.</p> <p>After using the cloth, set the electronic motor up in an upright position without motor cover and cable. Dry the electronic motor for at least 30 minutes.</p>
<p>Inspection and care</p>  <p>REF: 1942</p>	<ol style="list-style-type: none"> <li>First unscrew the motor cover and remove the cable including the motor cover.</li> </ol>  <ol style="list-style-type: none"> <li>Perform a visual check for damage, corrosion and wear.</li> <li>Spray the electronic motor for cleaning and care. Nouvag AG recommends using Lubrifluid for this purpose. Spray the electronic motor from the front with the spray adapter (REF 1942) in place for about 3 seconds (fig. 4) until only clear liquid runs out of the electronic motor.</li> </ol>  <ol style="list-style-type: none"> <li>Wipe down the electronic motor with a moist cloth.</li> <li>Screw the motor cover with the cable back onto the electronic motor.</li> </ol>	
<p>Sterilisation</p>	<p>Sterilisation of the electronic motor is performed with a fractionated pre-vacuum steam sterilisation technique (DIN EN 13060/DIN EN 285) giving due consideration to the respective national requirements.</p> <p>Minimum requirements:</p> <ol style="list-style-type: none"> <li>Pre-vacuum phases: 3</li> <li>Sterilisation temperature: minimum 132°C – maximum 137°C.</li> <li>Hold time: At least 5 minutes (full cycle).</li> <li>Drying time: At least 10 minutes.</li> </ol> <p>When sterilising several products during one sterilisation cycle, do not exceed the maximum steriliser load (see manufacturer's details).</p> <p>A drying cycle must be added in the case of autoclaves without a post-vacuum function. Sterilisation result needs to be checked using corresponding indications. According to the Robert-Koch Institute preparation ends with the documented release for use of the medical device.</p> <p>If the sterilised electronic motor is not used immediately after sterilisation, the material packaging must be labelled with the sterilisation date.</p>	
<p>Storage</p>	<p><b>Storing the sterile packaging</b></p> <p>The sterilised product must be stored away from dust, humidity and contamination. During storage ensure that there is no direct exposure to sunlight. If the expiry date exceeded, the product must be reprocessed again.</p>	<p><b>Handling the sterile packaging</b></p> <p>Before taking out the product, check that the sterile packing is intact. When taking out the product, follow the respective aseptic procedures.</p>
<p>Information for validating the preparation</p>	<p>The above preparation process has been verified by a validated procedure.</p> <p>The following materials and machines were used:</p> <ol style="list-style-type: none"> <li>Alkaline cleaner: Neodisher® Mediclean; Chemische Fabrik Dr. Weigert GmbH &amp; Co. KG</li> <li>Enzymatic cleaner: Neodisher® MediZym; Chemische Fabrik Dr. Weigert GmbH &amp; Co. KG</li> <li>Cleaning/disinfection unit: Miele G 7836 CD</li> <li>Rack trolley: Miele E429</li> <li>Screen basket/rinse strip: 3mach (Nouvag AG REF: 51401)</li> <li>Autoclave: Selectomat 666-HP (MMM)</li> <li>Sterile packaging: Sterisheet 100; Broemeda Amcor Flexibles GmbH</li> </ol> <p>Chemicals and machines other than those mentioned can also be used. In such case consult the manufacturers or suppliers to find out whether their products confer the same performance as the products that the procedure was validated with.</p> <p>If you should opt for a different procedure for reprocessing to the one given above, you are required to validate it.</p>	
<p>Note</p> 	<p>There is no experience available from conducting other sterilisation procedures such as plasma sterilisation, low temperature sterilisation procedure, etc.</p> <p>Users bear full responsibility if they use a procedure which differs from the validated sterilisation procedure described!</p>	
<p>Caution</p> 	<p>Please also comply with the applicable legislation in your country and the medical practice or hospital's hygiene rules.</p> <p>This especially applies to the varying requirements for an effective inactivation of prions.</p>	

## Post market surveillance

 In the event of problems with the product or in the event of a serious incident, please immediately download, compile and send the following form [https://nouvag.com/media/attachments/2022/05/19/for\\_8-308.pdf](https://nouvag.com/media/attachments/2022/05/19/for_8-308.pdf) as a PDF to this address: [complaint@nouvag.com](mailto:complaint@nouvag.com)

## Accessories

REF	Description	Units
2128	Lubrifluid	1

## Spare parts

REF	Description	Units
76061	Motor cable complete, for motor 2063nou (MD 10)	1
76062	Motor cable complete, for motor 2064nou (MD 20)	1
76063	Motor cable complete, for motor 2058nou (Vacuson 60 LP)	1

## Troubleshooting

Problem	Cause	Solution
Motor is not running.	Plug is not inserted properly.	Insert plug and check fitting.
Motor stops when cable is moved.	Defective cable.	Replace cable.
Motor is running but tool is not turning.	Handpiece is not properly connected to the motor.	Press handpiece firmly to the motor until it clicks in place.

## Manufacturer and service centers

**Nouvag AG** • St.Gallerstrasse 25 • CH-9403 Goldach  
Tel. +41 71 846 66 00  
[info@nouvag.com](mailto:info@nouvag.com) • [www.nouvag.com](http://www.nouvag.com)



A complete list of Nouvag certified service centers are found on the Nouvag website at:  
[www.nouvag.com/service](http://www.nouvag.com/service)

## Disposal

 When disposing of devices, device components and accessories, local, customary regulations of the legislator must be followed. Please dispose the electronic motor as electric and electronic waste (WEEE).