

M3-Pro Gold 2017

FOR DENTAL USE ONLY

Instruction for use

M3-Pro Gold 2017 INSTRUMENTS FOR ENDODONTIC TREATMENT:

- M3-Pro Gold 2017 Orifice opener: #17/08, 19mm
- M3-Pro Gold 2017 Glider path: #19/02, 21mm-25mm-31mm
- M3-Pro Gold 2017 Small: #15/06, 21mm-25mm-31mm
- M3-Pro Gold 2017 Prime: #25/04, 21mm-25mm-31mm
- M3-Pro Gold 2017 Prime: #25/06, 21mm-25mm-31mm
- M3-Pro Gold 2017 Medium:#35/04,21mm-25mm-31mm

0) COMPOSITION

The cutting part of these instruments is made of a nickel-titanium alloy.

1) INDICATIONS FOR USE

These instruments are to be used only in a clinical or hospital environment, by qualified users. Application field: for the removal of dentin and shaping of the root canal.

2) CONTRAINDICATIONS

As with all mechanically driven root canal instruments, M3-Pro Gold 2017 files should not be used in cases of severe and sudden apical curvatures due to heightened risk of separation

3) WARNINGS

This product contains nickel and should not be used for individuals with known allergic sensitivity to this material

4) PRECAUTIONS

Working length determination is imperative to ensure proper instrumentation using any mechanized or hand instrument. The use of radiographs in combination with an apex locator is a recommended method of working length determination. These instruments are to be used only in a clinical or hospital environment by qualified users following good dental practice (using gloves, glasses, a mask and a rubber dam etc.). While we have implemented safeguards against possible misuse, there are several important points to remember:



- Inspect the packaging before use and do not use the instruments if the packaging is damaged;
- For optimal usage, torque controlled motors are recommended;
- Before using any instrument, make sure it is well connected to the contra-angle head;
- Take caution in the apical area and around significant curvatures;
- These instruments should not be immersed in a sodium hypochlorite solution;
- Clean the flutes frequently during instrumentation, inspecting for signs of distortion, elongation or wear, such as uneven flutes, dull spots;
- Frequently irrigate, recapitulate and irrigate the canal throughout the procedure, after using each file;
- M3-Pro Gold files should only be used in regions of the canal that have a confirmed and reproducible glide path;
- Use the appropriate finishing files to passively follow the canal to the working length as recommended in the step-by-step instructions (part 6), and then withdraw immediately;
- The maximum preparation size for the M3-Pro Gold is given by the MEDIUM size instrument but if a larger preparation is needed we recommend refining the apical area with the necessary NiTi hand files;
- The M3-Pro Gold 2017 files are intended for Single Use only (on one patient during a single procedure).

5) ADVERSE REACTIONS

As with all mechanically driven root canal instruments, M3-Pro Gold 2017 files should not be used in cases of severe and sudden apical curvatures due to heightened risk of separation

6) STEP BY STEP INSTRUCTIONS FOR M3-Pro Gold 2017 FILES

- •Step by step instructions (see also the illustrated Step by step card):
- •Step 1:Measure the length & negotiate the canal by #10 stainless steel K FILE.
- •Step 2:Negotiation by #15 stainless steel K files.
- •Step 3:OPEN FILE to open the 1/3 upper part of orifice. Speed 300rpm, Torque 3.0N.cm.
- •Step 4:Irrigate, then build a glide path by PATH FILE #20. Speed 350rpm, Torque 1.5N.cm.
- •Step 5:Use brushing motion with #15/06, #25/04, #25/06, #35/04 and short 1-2 mm amplitude strokes to prepare to working length, until it does not glide easily any more. Speed 350rpm, Torque 2.0/1.5/1.5N.cm.
- •Step 6:It is very important to irrigate and negotiate the root canals when near 1/3 of the apical part to remove the debris. Repeat the above steps until is prepared to the working length

7) DISINFECTION, CLEANING AND STERILIZATION

Reprocessing procedure for dental instruments.



For those devices that are not labelled "single use", re-processing of the devices should be carried out as per this IFU. For hygiene and sanitary safety purposes, these instruments must be cleaned and sterilized before each re-use to prevent any contamination.

Excluded devices:

Uniclip and Mooser Calcinable plastic posts cannot be sterilized and must be disinfected by immersion NaOCl (2,5 % at least) during 5 min. at ambient temperature.

GENERAL RECOMMENDATION:

- 1) Use only a detergent solution, with disinfecting effect, which is approved for its efficacy (VAH/DGHM-listing, CE marking, FDA approval) and in accordance with the IFU of the detergent solution manufacturer. For all metal devices, it is recommended to use anticorrosion disinfecting and cleaning agents.
- 2) For your own safety, please wear personal protective equipment (gloves, glasses, mask).
- 3) The user is responsible for the sterilization or disinfection of the product for the first cycle and each further usage as well as for the usage of damaged or dirty devices where applicable after sterilization.
- 4) It is safest for the practitioner to use our devices only once. Should our devices be reused, we recommend that they should not be used more than 5 times. After each processing they should be carefully inspected before use: the appearance of defects such as deformations (bent, unwound), breakage, corrosion, loss of colour coding or marking, indicate that the devices are not able to fulfil the intended use with the required safety level and must therefore be discarded.
- 5) Single use marked devices are not approved for re-use.
- 6) For the final rinsing step deionised water use is mandatory, whether using an automated washerdisinfector or a manual cleaning method. Tap water is permissible for the other rinsing steps.
- 7) Instruments with plastic handles, and NiTi instruments should not be used with Hydrogen Peroxide solution which is known to degrade them.
- 8) Only the active part of the NiTi instrument, which is in contact with the patient should be immersed in a NaOCl solution concentrate at NOT more than 5%.
- 9) Avoid device to dry out, prior to, or during pre-disinfection, or cleaning. Dried biological material can be difficult to remove.
- 10) Use only device appropriated support for reprocessing.
- 11) Do not use label systems or identification markers directly on the device.



Instruction A

	Operation	Activities	Warning and remarks	
1	Disassembling	-Disassemble the device, if applicable.	-Remove and discard silicone stops.	
2	Pre-Disinfection	-Soak all devices immediately after use in a	-Follow instructions and respect	
		disinfection solution. Use a tray made from high	concentrations and immersion times given by	
		density polyethylene or stainless steel.	the manufacturer (an excessive	
			concentration may cause corrosion or others	
			defects on devices).	
			-The pre-disinfection solution should be a	
			specific solution targeted by the supplier for	
			pre-disinfection. It should be used at the	
			dilution specified by the supplier. It should contain, or be combined with a proteolytic enzyme.	
			-The pre-disinfection solution should be	
			aldehyde free (to avoid blood impurities	
			fixation) and without di- or triethanolamines	
			as corrosion inhibitor. Change the pre-disinfection solution regularly i.e. When it becomes soiled, or when efficacy is	
			diminished due to exposure to microbial	
			loads.	
			-Do not use pre-disinfecting solutions	
			containing Phenol or any products, which are	
			not compatible with the devices(See general recommendations). -For visible impurities observed on instruments a pre-cleaning is recommended	
			with a soft brush (made from either nylon,	
			polypropylene, acrylic). Manually brush the	
			device until visible impurities are removed.	
3	Rinsing	- Abundant rinsing (at least 1 min) under running	-Use tap water for rinsing.	
		water (ambient temperature).	-If a pre-disinfectant solution contains a	
			corrosion inhibitor, it is recommended to do	
			the rinsing step just before starting the	
			cleaning step	



4	Automated Cleaning	- Place the devices in a kit, support, or container	-Discard any devices with large obvious
·	with washer- disinfector	(made from stainless steel or titanium) to avoid	defects (broken, bent,).
		any contact between devices or posts.	-Avoid any contact between instruments or
		, i	,
		-Place the devices in the washerdisinfector and	posts when placing in the washer
		execute the defined cycle (Ao value > 3000 or, at	disinfector use kits, supports or containers.
		least 5 min at 90°C).	-Follow instructions and concentrations given
		-Use a detergent solution with cleaning properties	by the manufacturer of the detergent
			solution(see also general recommendations).
			-Follow the instructions of the
			washer-disinfector and verify the success
			criteria after each cycle have been met as
			stated by the manufacturer.
			-The final rinse step should be with deionised
			water. For other steps follow the water
			quality defined by the manufacturer
			-Use only approved washer-disinfector
			according to EN ISO 15883, maintained and
			validated regularly.
			-It is recommended to use an alkaline
			detergent with tensides, which has grease
			removal, disinfection (against bacteria/ fungi)
			and corrosion inhibition properties. The
			detergent should be approved for its efficacy
			(VAH/DGHM-listing, CE marking, FDA
			approval) and used in accordance with its IFU
			The detergent should be aldehyde free and
			without di- or triethanolamines as corrosion
			inhibitor.



Instruction B

1	Manual Cleaning assisted by an ultrasonic device	-Place the devices in a kit,	-No visible impurities should
		support or container (made	be observed on the devices.
		from stainless steel,	-If visible impurities are
		polypropylene or titanium) to	observed on the devices, the
		avoid any contact between	device must be manually
		devices.	brushed t with a soft brush
		-Immerse in the detergent	(made from either nylon,
		solution with cleaning	polypropylene, acrylic) until
		properties.	visible impurities are removed.
			-Discard any devices with large
			obvious defects (broken, bent,
			and unwound).
			-Follow instructions, observe
			water quality, concentrations
			and cleaning time stated by the
			manufacturer of the cleaning
			solution (see also general
			recommendations).
			-It is recommended to use an
			alkaline detergent with
			tensides, which has grease
			removal, disinfection (against
			bacteria/ fungi) and corrosion
			inhibition properties. The
			detergent should be approved
			for its efficacy
			(VAH/DGHM-listing, CE
			marking, FDA approval) and
			used in accordance with the
			IFU of the detergent solution
			manufacturer).
			-The detergent should be
			aldehyde free and without di-
			or triethanolamines as
			corrosion inhibitor.



2	Dincing	Abundant ringing (at least 1	UNITED DEN
2	Rinsing	-Abundant rinsing (at least 1	-Use deionised water for
		min) under running water	rinsing.
		(ambient temperature).	-If the previously used cleaning
			solution contains a corrosion
			inhibitor, it is recommended to
			do the rinsing step just before
			starting the autoclaving.
3	Drying	- Devices should be thoroughly	-Dry on a single use non-woven
		dried before inspection and	cloth, or with a hot air drier at
		packaging.	not more than 110°C.
			-Devices should be dried until
			visual traces of moisture are
			eliminated
			-Particular attention has to be
			paid to effectively dry joints or
			cavities within a device
4	Inspection	-If applicable assemble the	-Dirty devices must be cleaned
		devices (including the	again.
		placement of new silicon	-Do not re-use silicon stops.
		stops).	-Discard devices, which show
		-Inspect the devices	any defect as described in the
		functionality.	General Recommendation
		-Inspect devices and sort out	above .
		those with defects.	
5	Packaging	-Place the devices in a kit,	-Use packaging which are
		support or container to avoid	resistant up to a temperature
		any contact between	of 141°C (286°F) and in
		instruments or posts and pack	accordance with EN ISO 11607.
		the devices in "Sterilisation	-Avoid any contact between
		pouches".	instruments or posts during
			sterilization. Use kits, supports
			or containers.
			-For sharp devices that are not
			contained within a box, silicon
			tubes should be placed around
			the devices to prevent
			packaging piercing.
			-Seal the pouches according to
			the recommendation of the
			pouch manufacturer. If a
			thermo-sealer is used, the
		I	



process	must be validated.
-Check	the validity period of
the pou	ich given by the pouch
manufa	cturer to determine the
shelf life	е.
6 Sterilization - Steam sterilisation at 134°C -The in	nstruments and posts
/ 273°F during 18 min is must be	e sterilized according to
recommended for these the pac	kaging labelling.
devices, for the purpose of de-	the pouches in the
activating potential prions. steam	steriliser according to
the rec	ommendation given by
the ster	iliser manufacturer.
-Use or	nly steam steriliser that
are mat	ching the requirements
of EN	13060 (class B, small
sterilise	r), EN 285 (full size
sterilise	r).
-Use a	validated sterilisation
procedu	ure according to ISO
17665	with a minimum drying
time of	20 min.
-Respec	t the maintenance
procedu	ure of the steriliser
given	by the steriliser
manufa	cturer.
-Contro	I the efficiency and
accepta	nce criteria of the
sterilisa	tion procedure
(packag	ing integrity, no
humidit	y, no colour change of
packagi	ng, positive
physico	-chemical indicators,
conform	nity of actual cycle
parame	ters, to reference cycle
parame	ters).
-Store t	raceability records and
define	shelf-life according to
packagi	ng manufacturer
guidelin	es.
-Shorte	r sterilisation cycles
accordi	ng to local regulations
are po	ossible but are not
guarant	eed to de-activate



			prions.
7	Storage	-Keep devices in sterilization	-Sterility cannot be guaranteed
		packaging in a clean	if packaging is open, damaged
		environment, away from	or wet.
		sources of moisture and direct	-Check the packaging and the
		sunlight. Store at ambient	medical devices before using
		temperature.	them (packaging integrity, no
			humidity and use by date).



Manufacturer

EC REP



United Dental Changzhou
Add:Buliding,B1,No.9
Changyang road,Wujin District,
Changzhou, Jiangsu Province
213145,China.
www.udg-dental.com



Prolinx GmbH Brehmstr. 56, 40239, Duesseldorf, Germany