

TD4 Instructions for use

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PRECISION DENTAL INSTRUMENTS

Rotary endodontic instruments

(1) Peesos/Gates (2) DIAtaper (3) Spring paste fillers

Date of issue: 21.11.2017

Last revision date: 05.04.2020

Revision: 04/20

The New World of Endodontics

Precision Dental
Instruments
in Swiss quality



*Example (Gates)



*Example (Peesos)



*Example (DIAtaper)



*Example (Spring paste fillers)

Rotary endodontic DIASWISS instruments

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DIASWISS S.A.
Rte de St Cergue 293
CH-1260 Nyon
Switzerland

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General information

User group

The instruments may only be used by appropriately qualified personnel in dental surgery or clinics.

- Dentist
- Maxillo-facial surgeons / dental/oral surgeons

Target patient group

Patients with dental medical indications in the area of the described indications and applications.

Reprocessing

For reprocessing (cleaning, disinfection and sterilization) see the separate instructions for reprocessing of endodontic instruments.

Protective measures / Warnings

- Do not store instruments in plastic pouches (damaged pouches can cause contamination of the instruments)
- Store at ambient temperature in dry conditions
- Protect yourself by wearing appropriate protective gear (gloves, goggles, mask)

Traceability

We recommend keeping the original packaging over the entire lifetime of the instrument in order to ensure traceability via the lot number.

Disposal

Used and/or defective instruments need to be sterilized before disposal to avoid transmission of germs. Please be careful with sharp edges or tips.

After sterilization instruments can be discarded with general clinical waste.

Notification to competent authorities

Competent national authorities and the manufacturer need to be notified about all serious incidents occurring in the context of the product without delay.

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Access cavity preparation // (1) Peesos / Gates

Materials / Components

Martensitic chromium steel (1.4035)

Product description

Peesos and gates are carbide instruments with a non-cutting tip for reciprocal enlargement of the root canal.

Indication

- Preparation of root canal orifice and enlargement of the coronal part
- For Preparation of coronal parts of the root canal, before or after use of files or K-drills
- Enlargement of root canal orifice and creation of a linear transition to the lateral axial walls
- Drilling of cavities when using root pins



Application/usage only in the straight part of the root canals!

Contraindication

- The instruments may not be used for any other than the described indication or application area.
- The indicated torques and speeds may not be exceeded
- Usage in root canals with strong and abrupt apical curvatures as well as application with lateral cut is strictly forbidden.

Speed specifications

The instruments may only be used in an endodontic contra angle handpiece with torque control.

Instruments	 Speed	 Torque
Gates (050) / Peesos (070)	max. 800 - 1.200 rpm	0,6 - 1 Ncm
Gates (070) / Peesos (090)	max. 800 - 1.200 rpm	1 - 1,5 Ncm
Gates (090) / Peesos (110)	max. 800 - 1.200 rpm	2 - 3 Ncm
Gates (110-150) / Peesos (130-170)	max. 800 - 1.200 rpm	3 - 4 Ncm

Application mode

- Use Gates and Peesos with brushing movements according to the indicated speed
- Reciprocal enlargement or preparation of root canals and creation of a linear transition to the lateral axial walls
- When operating we recommend leading the shank in curved lines while moving the tool backwards in order to cut dentine selectively

Please note our additional general instructions and safety recommendations for the use of rotary instruments (www.diaswiss.ch).

Residual risks

Possible residual risks are fracture or deformation due to gross faulty handling or contamination due to inappropriate sterilization which may lead to harm of the patient, user or third persons.

These residual risks are highly unlikely and are not expected in case of appropriate use and handling over the lifecycle of the instrument.

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Rotary root canal preparation // (2) DIAtaper

Materials / Components

Instruments with nickel-titanium working piece (NiTi) with memory effect

Product description

These rotary instruments (DSX, DS1, DS2, DF1, DF2, DF3) are intended for endodontic root canal preparation. The flexibility of the working piece increases the user comfort as well as the application possibilities and offers an excellent adaptation to curvatures and difficult access areas. (due to memory effect)

Indication



- Treatment and preparation of root canal systems (applies also to apical curvatures)

Contraindication

- The instruments may not be used for any other than the described indication or application area.
- The indicated torques and speeds may not be exceeded
- This product contains nickel and should not be used on persons with known nickel allergy

Speed specifications

The instruments may only be used in an endodontic contra angled handpiece with torque control.

Instrument	 Speed	 Torque
DIAtaper (DSX/DS1)	max. 250 - 350 rpm	3 - 4 Ncm
DIAtaper (DS2)	max. 250 - 350 rpm	1 - 1,5 Ncm
DIAtaper (DF1)	max. 250 - 350 rpm	1,5 - 2 Ncm
DIAtaper (DF2/DF3)	max. 250 - 350 rpm	2 - 3 Ncm

Application mode

- 1) Create a linear access to the root canal orifice
- 2) Always rinse and use a file size ISO 015 to create a reproducible glide
- 3) Treatment Procedure:
 - Localize root canal access
 - Insert the file (ISO 015) passively until resistance is felt
 - Use DIAtaper DS1 with brushing movement until you reach the same depth as with the file (ISO 015)
 - Repeat this procedure until the working length is determined by the file (ISO 015) and is reached with the DIAtaper DS1.
 - Use DIAtaper DS2 with brushing movement until you reach the working length
 - Check working length again
 - Insert DIAtaper DF1 (non-brushing movement) at each step deeper than before until you reach the working length
 - Measure the diameter of the opened area with files
 - If additional enlargement is required or in case of a larger foramen use the appropriate DIAtaper (DF2, DF3) also with non-brushing movements up to the working length

If necessary, use the DSX instrument with brushing movements to enlarge the coronal part of the root canal from the furcation area and/or to create a larger coronal conicity.

Please note our additional general instructions and safety recommendations for the use of rotary instruments (www.diaswiss.ch).

Residual risks

Residual risks can be injury or harm of patient, user and/or third party due to gross faulty handling or an inappropriate sterilization.

These residual risks are highly unlikely and are not expected in case of appropriate use and handling over the lifecycle of the instrument.

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Obturation // (3) Spring paste Fillers

Materials / Components

Austenitic chromium nickel steel (1.4310)

Product description

These instruments are made of spring-hard medical grade steel and are intended for the insertion of drugs and obturation materials.


Indication

- Application of pasty root canal fillings and cements into the root canal up to the apex
- Insertion of calcium hydroxide as temporary medication

Contraindication

- The instruments may not be used for any other than the described indication or application area.
- The indicated torques and speeds may not be exceeded
- This product contains nickel and may not be used on persons with known nickel allergy

Speed specification

Instrument		Speed
Spring paste Fillers (<i>all sizes</i>)		max. 800 rpm

Application mode

- Dip the instrument into the obturation material
- Insert the instrument carefully near the apex while the contra angle handpiece is still switched off
- Use the indicated speed to spin the obturation material into the root canal while slowly pulling out the instrument

Please note our additional general instructions and safety recommendations for the use of rotary instruments (www.diaswiss.ch).

Residual risks

Residual risks can be injury or harm of patient, user and/or third party due to gross faulty handling or an inappropriate sterilization.

These residual risks are highly unlikely and are not expected in case of appropriate use and handling over the lifecycle of the instrument.