



INSTRUCTIONS FOR THE PREPARATION OF PLIERS AND INSTRUMENTS

These instructions apply to all Dentaaurum pliers, instruments and rotary instruments that are approved for use on patients.

These instructions comply with the requirements of the latest version of DIN EN ISO 17664 and the RKI (Robert Koch Institute) guidelines.



PREMIUMLINE



Find our Premium-Line
pliers here



WEINGART UNIVERSAL PLIERS
REF 003-120-00



TOMAS®-TORQUE RATCHET
REF 302-004-41

GENERAL REQUIREMENTS

Pliers and instruments must be cleaned, disinfected and if necessary, sterilized before each use. This also applies for initial use following delivery. Pliers and instruments are normally delivered non-sterile (clean and disinfect following removal of the protective transport packaging; sterilize after packing). Effective cleaning and disinfection is an indispensable requirement for effective sterilization. This includes rotary instruments (drills), hereafter referred to as instruments.

During use, ensure that contaminated instruments are collected separately and are not placed back in the instrument tray to avoid greater contamination of the loaded instrument tray. Clean / disinfect the contaminated instruments. Then replace them in the instrument tray and sterilize the fully loaded instrument tray if necessary.

Should the dental professional and/or the patient become aware of serious problems arising from the use of the product, it is important that the manufacturer and the competent authority in the country in which the dental professional and/or the patient is resident are informed accordingly.

MANUAL PRECLEAN



Surface contamination must be removed from the pliers and instruments immediately after use, **at the latest within one hour**.

Rinse pliers and instruments under water and immerse in a disinfectant solution. Use only a soft brush (nylon brush) or a clean soft cloth for manual removal of contamination.

Do not use metal brushes or steel wool.



Disinfectants should be aldehyde-free (otherwise fixation of blood residue), have a certified efficacy (e.g. DGHM [German Society for Hygiene and Microbiology] or FDA approval or CE marking), be suitable for disinfecting instruments and compatible with the instruments.

MACHINE CLEANING / DISINFECTION



WHEN USING A DISINFECTOR, MAKE SURE:

- that the efficacy of the disinfector has been certified (e.g. DGHM or FDA approved or CE marking according to DIN EN ISO 15883),
- a certified program for thermal disinfection (minimum 10 min. at 93°C / 199 °F or an A0 > 3000) is used (with chemical disinfection there is the risk of disinfectant residue on the instruments),
- it uses only water that is sterile or has a low bacteria count (max. 10 bacteria / ml) and is low in endotoxins (max. 0.25 endotoxin units / ml) (e.g. purified water / highly purified water) for rinsing, and
- the air used for drying is filtered.



WHEN CHOOSING A CLEANING AGENT SYSTEM, MAKE SURE:

- it is suitable for cleaning metal and plastic instruments,
- an additional disinfectant with certified efficacy (e.g. DGHM or FDA approved or CE marking) is used – provided that thermal sterilization is not used – and that it is compatible with the cleaning agent used, and
- the chemicals used are compatible with the instruments (see chapter Material resistance).

Adhere to the concentrations given by the manufacturer of the cleaning agent and disinfectant.

WORKING PROCEDURE



- Dismantle the pliers and instruments as far as possible.
- Place the disassembled, half-opened (hand-width) pliers and instruments in the disinfectant. Pliers and instruments should not come into contact with one another.
- Start the program.
- Remove the pliers and instruments from the disinfectant at the end of the program.
- Check and pack the instruments, immediately after removal if possible.
- **If the disinfectant does not have an automatic drying program, leave the door of the unit slightly open to dry the instruments.**



Proof of basic suitability for effective automatic cleaning and disinfecting was provided by an independent, accredited test laboratory using a G 7836 GD disinfectant (thermal disinfection, Miele & Cie. GmbH & Co., Gütersloh, Germany) and the cleaning agent neodisher® Medizym (Dr. Weigert GmbH & Co. KG, Hamburg). The procedure described above was taken into account during the tests.



MANUAL CLEANING AND DISINFECTION



OBSERVE THE FOLLOWING POINTS WHEN CHOOSING A CLEANING AGENT AND DISINFECTANT:

- metal and/or plastic pliers and instruments must be suitable for cleaning and disinfecting.
- the cleaning agent must be suitable for ultrasonic cleaning.
- use only disinfectants with certified effectiveness (e.g. DGHM or FDA approval and CE marking). Disinfectants should be compatible with the cleaning agent used.

Combined cleaning agents / disinfectants should not be used if possible. Combined cleaning / disinfecting agents can only be used if there is minimal contamination (no visible contamination).

The concentrations and reaction times given by the cleaning agent and disinfectant manufacturer should be strictly adhered to. Use only freshly mixed solutions, only sterile or low-germ (max. 10 germs / ml) as well as low-endotoxin (max. 0.25 endotoxin units / ml) water (e.g. purified water / highly purified water) and only filtered air for drying.

CLEANING PROCEDURE

- Dismantle the pliers and instruments as far as possible.
- Place the disassembled pliers and instruments half-opened (hand-width) into the cleaning solution for the prescribed reaction time; ensure that the pliers and instruments are adequately covered. Pliers and instruments should not come into contact with one another. Rinse all cavities in the instruments using a single-use syringe (minimum volume 5 ml) before and after the reaction time. Special holders, e.g. bur blocks, should be used if necessary.
- Remove the pliers and instruments from the cleaning solution and rinse thoroughly with water.
- **Check that the pliers and instruments have been properly cleaned.**

DISINFECTION PROCEDURE



- Place the disassembled pliers and instruments in the disinfectant solution according to the prescribed reaction time. Ensure that the pliers and instruments are covered and are not in contact with one another. Rinse all cavities in the instruments using a single-use syringe (minimum volume 5 ml) before and after the reaction time.
- Remove the pliers and instruments from the disinfectant solution and rinse thoroughly at least three times with water.
- Do not pack the pliers and instruments until they are dry. Pack the dry pliers and instruments immediately.

Proof of basic suitability for effective manual cleaning and disinfecting was provided by an independent, accredited test laboratory using Bodedex® forte cleaning agent and Korsolex® plus disinfectant (Bode Chemie, Hamburg, Germany). The procedure described above was taken into account during the tests.

CHECK

Check all pliers and instruments after cleaning or cleaning / disinfecting for corrosion, damaged surfaces, chipped areas or contamination and discard damaged pliers and instruments. Pliers and instruments that are still contaminated must be cleaned and disinfected again.

PLIERS AND INSTRUMENT CARE



GENERAL:

Instrument oils should not be used if possible. If oil is to be used, ensure that only instrument oils (white oils) for contra angles are used, which – depending on the maximum sterilization temperature used – are approved for steam sterilization and are certified to be biocompatible.

PLIERS:

Following drying and before sterilization, plier jaws, locks, sliding surfaces for springs and other critical surfaces must be conditioned with medical white oil, which is steam permeable and temperature resistant. The oil protection on the extra-hard plier inserts reduces the risk of corrosion. We recommend cleaning/ protective oil (white oil) for pliers and instruments (REF 055-201-00).

PACKAGING



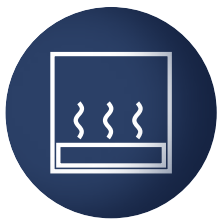
Wrap the pliers and instruments or sterilization tray in disposable sterilization packaging (single or double wrap) and / or pack in sterilization containers that meet the following requirements:

- DIN EN ISO/ANSI AAMI ISO 11607-1/2 (formerly: DIN EN 868/ANSI AAMI ISO 11607)
- suitable for steam sterilization (temperature resistant to min. 134°C/ 273 °F and adequate steam permeability)
- adequate protection of pliers and instruments and sterilization packaging against mechanical damage
- regularly maintained according to the manufacturer's instructions (sterilization containers)

STERILIZATION

Only the following sterilization procedures should be used for sterilization. Other sterilization procedures are not suitable. Flash sterilization is not permitted. Do not use hot-air sterilization, X-ray sterilization, formaldehyde or ethylene oxide sterilization or plasma sterilization.

STEAM STERILIZATION



- Fractionated vacuum process or gravitational method* (with adequate product drying)
- Steam sterilizer in accordance with DIN EN 13060 or DIN EN 285
- Validated in accordance with DIN EN ISO/ANSI AAMI ISO 17665 (formerly: DIN EN 554 / ANSI AAMI ISO 11134) (valid commissioning and product-specific performance evaluation)
- Maximum sterilization temperature 134°C / 273 °F (plus tolerance in accordance with DIN EN ISO / ANSI AAMI ISO 17665 (formerly: DIN EN 554 / ANSI AAMI ISO 11134))
- Sterilization time (exposure time at the sterilization temperature) minimum 5 mins at 134°C / 273 °F

Proof of basic suitability for effective steam sterilization was provided by an independent, accredited test laboratory using a EuroSelectomat steam sterilizer (MMM Münchener Medizin Mechanik GmbH, Planegg, Germany) and the fractional vacuum process as well as a Systec V-150 steam sterilizer (Systec GmbH Labor-Systemtechnik, Wettenberg, Germany) and the gravitation process. The procedure described above was taken into account during the tests.

* Use of the less effective gravitation process is only permitted if a fractional vacuum process is not available.

STORAGE



Following sterilization, pliers and instruments should be stored dry and dust-free in the sterilization packaging.

MATERIAL RESISTANCE

When choosing the cleaning agent and disinfectant ensure that they do not contain the following components:

- organic, mineral or oxidizing acids (maximum permitted pH 9.5, neutral / enzymatic cleaner recommended)
- strong alkali
- organic solvents (e.g. alcohols, ethers, ketones, benzines)
- oxidation agents (e.g. hydrogen peroxides)
- halogens (chlorine, iodine, bromine)
- aromatic/halogenated hydrocarbons
- heavy metal salts

Never clean pliers and instruments, sterilization and tomas® trays with metal brushes or steel wool. Do not expose pliers and instruments, sterilization and tomas® trays to temperatures above 134 °C / 273 °F !

REUSABILITY

All rotary instruments can be reused up to 5 times. The operator bears responsibility for any further reuse or use of damaged and/ or contaminated rotary instruments.

SPECIAL INSTRUCTIONS REGARDING DENTAURUM PLIERS AND INSTRUMENTS

PLIERS:

- only pretreat in half-opened (hand-width) position (open and close several times when conditioning)
- clean
- disinfect
- after each cleaning process, apply oil to plier jaws, locks, sliding surfaces for springs and other critical areas of the pliers using the cleaning / protective oil (white oil) for pliers and instruments (REF 055-201-00)
- pack and sterilize

Note: The oil protection on the extra-hard plier inserts reduces the risk of corrosion.

INSTRUMENTS:

The ligator (and its individual parts) must always be cleaned and disinfected by machine.

REFERENCES

Further tips on the correct reprocessing of pliers and instruments in the practice and laboratory are provided by the "Instrument Reprocessing Working Group" in its "Yellow Brochure".

www.a-k-i.org





OVERVIEW PLIERS & INSTRUMENTS

The overview contains all pliers and instruments approved for use on patients. The processing instructions given should be adhered to, unless directed otherwise. Further information is included in the respective Instructions for use; brochures and the Orthodontics catalog at www.dentaurum.com.

OVERVIEW OF PLIERS & INSTRUMENTS




























	Designation	REF
	Nance loop bending pliers	000-001-00
	Needle holder Medium Clean and disinfect in the open position, sterilize in the first lock.	000-030-00
	Needle holder Mini Clean and disinfect in the open position, sterilize in the first lock.	000-031-00
	Needle holder Medium, with finger ring Clean and disinfect in the open position, sterilize in the first lock.	000-035-00
	Mosquito forceps, without hook Clean and disinfect in the open position, sterilize in the first lock.	000-730-00
	Mosquito forceps, with hook Clean and disinfect in the open position, sterilize in the first lock.	000-731-00
	Mosquito forceps, curved Clean and disinfect in the open position, sterilize in the first lock.	000-732-00
	Nance loop closing pliers, Premium-Line	001-002-00
	Lingual bending pliers, Premium-Line	003-001-00
	Band seater Do not use alkaline/ acid cleaners.	003-006-00
	How pliers, curved, Premium-Line	003-111-00
	How pliers, straight, Premium-Line	003-112-00
	Johnson contouring pliers, Premium-Line	003-114-00
	Weingart universal pliers, Premium-Line	003-120-00
	Weingart universal pliers Mini, Premium-Line	003-121-00
	Jarabak Light Wire pliers, Premium-Line	003-125-00
	Light Wire pliers, Premium-Line	003-130-00
	Angle wire bending pliers Standard, Premium-Line	003-139-00
	Facebow bending pliers Magnum, Premium-Line	003-180-01
	Lingual arch bending pliers, Premium-Line	003-185-00
	Anderer 3-Prong pliers Extra-Mini, Premium-Line	003-205-00
	Bracket removing pliers, Premium-Line Remove the insert for cleaning and disinfecting.	003-349-00
	Hollow chop pliers Extra-Mini, Premium-Line	003-350-00
	Hollow chop pliers Mini, Premium-Line	003-351-00
	Hammerhead pliers, Premium-Line	003-355-00

















Designation	REF
Angle / Tweed ribbon arch pliers, Premium-Line	003-442-00
Distal end cutter Maxi, Premium-Line	003-700-00
Distal end cutter Mini, Premium-Line	003-701-00
Distal end cutter Mini with longer handle, Premium-Line	003-702-00
Distal end cutter, lingual	003-703-00
Flush Cutter Mini, with silicone O-ring, Premium-Line <small>Remove silicone O-Ring for cleaning, disinfecting and sterilizing.</small>	003-705-00
Flush Cutter Maxi, with silicone O-ring, Premium-Line <small>Remove silicone O-Ring for cleaning, disinfecting and sterilizing.</small>	003-706-00
Crimping pliers, for Herbst TS/SUS, Premium-Line	003-710-00
Crimping pliers, Premium-Line	003-711-00
Ortho-Cast M-Series cap removal pliers, Premium-Line <small>Remove the blade for cleaning and disinfection; sterilize when the blade has been put back into place.</small>	003-805-00
De La Rosa contouring pliers, Premium-Line	004-109-00
Begg Light Wire pliers, Premium-Line	004-130-00
Angle wire bending pliers, Premium-Line	004-139-00
Side cutter Maxi, Premium-Line	004-266-00
discovery® pearl debonding instrument	019-001-00
Bracket removing pliers, straight, Premium-Line	004-346-00
Bracket removing pliers, angled, Premium-Line	004-347-00
Bracket removing pliers, Premium-Line <small>Remove the insert for cleaning and disinfecting.</small>	004-349-00
Special bracket debonding pliers, 45° angled, Premium-Line	004-350-00
Tweed loop forming pliers, Premium-Line	012-350-00
Tweed loop forming pliers with individually replaceable hard metal tip, Premium-Line <small>Remove the insert for cleaning and disinfecting.</small>	012-351-00
Ligature cutter Mini, Premium-Line	014-151-00
Ligature cutter 45°, Premium-Line	014-152-00
Ligature cutter, lingual	014-153-00
Ligature cutter	014-154-00
Double beak pliers, Premium-Line	015-157-00
Ligature forming pliers, Premium-Line	015-158-00










Designation	REF
Separating pliers, Premium-Line	015-160-00
Side cutter Medium, Premium-Line	016-153-00
Separating strip holder Remove the separating strip before cleaning, disinfecting and sterilizing.	018-000-00
Distal end bender, double-ended	019-000-00
Ligature adapter, double-ended	021-273-00
Ligature tightener and adapter	022-274-00
LinguBall instrument	023-275-00
sl-instrument, for discovery® sl	023-276-00
sl-instrument, for discovery® sl 2.0	023-277-00
sl-Instrument, for discovery® smart sl	023-274-00
Positioning tool, lingual	023-278-00
Dental mirror with reference lines (assembled), lingual Fully disassemble for cleaning and disinfecting	023-279-00
Dental mirror with reference lines (without grip), lingual	023-279-10
Ligator Completely disassemble for cleaning and disinfecting; remove the wire from the guidance. The ligator (and its individual parts) must always be cleaned and disinfected by machine.	023-292-00
Ligator Completely disassemble for cleaning and disinfecting; remove the wire from the guidance. The ligator (and its individual parts) must always be cleaned and disinfected by machine.	023-288-00
Ligator Completely disassemble for cleaning and disinfecting; remove the wire from the guidance. The ligator and its individual parts must always be cleaned and disinfected by machine.	023-284-00
Band pusher	024-300-01
Mershon band pusher	024-300-00
Crimping tweezers, with long placement and angulation aid Blow dry the joint gap after reprocessing (e.g. with compressed air gun).	025-276-00
Crimping tweezers, delicate design Blow dry the joint gap after reprocessing (e.g. with compressed air gun).	025-277-00
Crimping tweezers, for posterior teeth Blow dry the joint gap after reprocessing (e.g. with compressed air gun).	025-279-00
Crimping tweezers, delicate tweezer design Blow dry the joint gap after reprocessing (e.g. with compressed air gun).	025-280-00
Oliver-Jones band removing pliers, Premium Line Remove the insert for cleaning and disinfecting.	026-347-00
Molar band seater, with replaceable plastic head and hard metal triangular tip Do not use cleaning agents or disinfectants that contain solvents. Unscrew the head before cleaning and disinfecting.	026-354-00
Molar band seater, plastic Do not use disinfectants that contain solvents.	026-355-00
Scaler, double-ended	027-349-00
Bracket positioning gauge, with metal tips	030-390-00

	Designation	REF
	Ruler	044-730-01
	Angle/Tweed ribbon arch pliers, EQ-Line	045-000-00
	Tweed loop forming pliers, EQ-Line	045-001-00
	Angle wire bending pliers, EQ-Line	045-002-00
	Weingart universal pliers, EQ-Line	045-003-00
	Oliver-Jones band removing pliers, EQ-Line Remove the insert for cleaning and disinfecting.	045-004-00
	Bracket removing pliers, EQ-Line Remove the insert for cleaning and disinfecting.	045-005-00
	How pliers, straight, EQ-Line	045-006-00
	Jarabak Light Wire pliers, EQ-Line	045-009-00
	Nance loop bending pliers, EQ-Line	045-010-00
	Distal end cutter, EQ-Line	045-021-00
	Side cutter Medium, EQ-Line	045-022-00
	Eby band seater Fully disassemble for cleaning and disinfecting: unscrew the tip; unscrew the sleeve from the handle; remove the hammer and spring Only sterilize the tip.	051-023-00
	Lip retractor, large Reprocessing: max. 50 x; cleaning/disinfecting: only use cleaning and disinfecting agents suitable for polycarbonate and observe the manufacturer's instructions; sterilization: steam sterilization, 121 °C / 249.8 °F, holding time 15 mins	075-600-00
	Lip retractor, small Reprocessing: max. 50 x; cleaning/disinfecting: only use cleaning and disinfecting agents suitable for polycarbonate and observe the manufacturer's instructions; sterilization: steam sterilization, 121 °C / 249.8 °F, holding time 15 mins	075-601-00
	tomas®-screwdriver Fully disassemble for cleaning and disinfecting. Sterilize fully assembled.	302-004-10
	tomas®-applicator	302-004-20
	tomas®-applicator, long version	302-004-70
	tomas®-wheel	302-004-30
	tomas®-torque ratchet Fully disassemble for cleaning and disinfecting.	302-004-40
	tomas®-driver	302-004-50
	tomas®-driver, long version	302-004-60
	tomas®-guide driver	302-080-00
	Manually turned unit mod. acc. to Pauls Fully disassemble for cleaning and disinfecting. Sterilize fully assembled.	302-004-81
	tomas®-stop screw	302-013-01
	tomas®-tool tray	302-156-00
	tomas® PI-reusable punch	303-210-10

	Designation	REF
	tomas® PI-round drill	303-220-00
	tomas® PI-lance drill	303-230-00
	tomas® PI-pre drill 2.0	303-240-20
	tomas® PI-final drill 3.4	303-204-34
	tomas® PI-depth gauge	303-240-54
	tomas® PI-driver 2.5	303-310-00
	tomas® PI-applicator	303-320-00
	tomas® PI-wheel	303-340-00
	tomas® PI-lock key	303-350-00
	tomas® PI-driver 1.3	303-360-00
	tomas® PI-guide sleeve	303-500-10
	tomas® PI-trepan	303-500-20
	tomas® PI-tool tray	303-010-10
	Hexagon socket key 0.9	607-129-00
	Hexagon socket key 1.5	607-144-00
	Expansion screw key, large	611-116-00

ROTATING INSTRUMENTS:

	Description	REF
	tomas®-drill SD 1.1, short pilot drill	302-103-00
	Carbide burs, coarse	123-603-01 123-603-31
	Carbide bur, fine	123-604-01 123-604-31
	Adhesive residue remover, cone	123-700-01
	Adhesive residue remover, wheel	123-701-01
	Adhesive residue remover, pear shaped, large	123-702-01
	Adhesive residue remover, pear shaped, small	123-703-01



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