



## » DENTAL HAND INSTRUMENTS «





**Tekno-Medical Optik Chirurgie GmbH**

Sattlerstr. 11  
D-78532 Tuttlingen  
GERMANY  
SRN: DE-MF-000005822

Phone: +49 7461 17 01 0  
Fax: +49 7461 17 01 50

Mail: [mail@tekno-medical.com](mailto:mail@tekno-medical.com)  
Web: [www.tekno-medical.com](http://www.tekno-medical.com)





## Content

1	Scope	4
2	Inspections	4
3	Handling	4
4	Purpose	4
5	Indications	4
6	Contraindication	4
7	Patient population	4
8	Disposal	4
9	Warnings	5
10	Instructions for reprocessing	5
10.1	On-site preparation	5
10.2	Transport	5
10.3	Preparation for decontamination	5
10.4	Manual pre-cleaning	5
10.5	Automated cleaning	6
10.6	Automated (thermal) disinfection	6
10.7	Functional testing	6
10.8	Care of the instruments	6
10.9	Packaging	6
10.10	Sterilization	6
10.11	Storage	6
10.12	Information on the validation of the reprocessing	7
11	Additional Instructions	7
12	Reportable events	7
13	Warranty	7
14	Service and repair	7
15	Symbols	7
16	Product listing	8





In order to keep hazards to patients, users or, if necessary, third parties as low as possible, the instructions for use must be carefully observed. The application, reprocessing and testing of the instruments may only be carried out by trained specialists. The products are delivered non-sterile and must go through the complete processing cycle (cleaning, disinfection and, if necessary, sterilization) before the first and every subsequent use.

## 1 SCOPE

These instructions for use are valid for the following reusable dental hand instruments from Tekno-Medical Optik-Chirurgie GmbH (hereinafter “Tekno-Medical”):



- Dental forceps, tweezers, root hooks and probes,
- Instruments for fillings, crowns and impressions,
- Instruments for dental care and teeth cleaning.

(See product list in the last section.)

## 2 INSPECTIONS

Before using the products, they must be inspected for breaks, cracks, deformations, damage and functionality. Areas such as cutting edges, working ends, connections and all moving parts must be checked particularly carefully. Worn, corroded, deformed, porous or otherwise damaged instruments must be discarded.

## 3 HANDLING

The products may only be used for their intended purpose by appropriately trained and qualified personnel. The treating physician or user is responsible for the selection of instruments for specific applications or operational use, the appropriate training of personnel and the experience in handling the products.

## 4 PURPOSE

Manually guided instruments for use in dental treatment on humans. The duration of use is temporary (under normal conditions intended for uninterrupted use for a period of less than 60 minutes) in accordance with Regulation (EU) 2017/745.

## 5 INDICATIONS

Dental hand instruments are used in the treatment of healthy and diseased teeth, gums and in orthodontic treatments.

## 6 CONTRAINDICATION

In general, the use of the head support system is contra-indicated in cases where the use of other surgical techniques is indicated. In addition, there are contraindications:

- in case of unwillingness of the patient;
- if the technical requirements are not met.

Not for use on the central circulatory and nervous system within the meaning of the regulation.

## 7 PATIENT POPULATION

Apart from the contraindicated uses listed in these instructions for use, there are no restrictions on the patient population.

## 8 DISPOSAL

If the instruments can no longer be repaired and reprocessed, the instruments must be disposed of in accordance with the applicable country-specific regulations and laws.

Defective products must usually have gone through the entire reprocessing process before disposal.





## 9 WARNINGS

Instruments made of stainless steel must not be placed in physiological saline solution (NaCl), prolonged contact can lead to pitting or stress corrosion. Instruments may only be sterilized after prior cleaning and disinfection.

Brand-new products must go through the entire processing process once before being used for the first time. A new medical device must be subjected to a thorough visual and functional inspection after delivery. If the medical device has externally visible defects (scratches, breaks, cracks, notches, bent parts and stiffness) or if it does not work as described in these instructions for use, we as the manufacturer or your sales partner must be notified immediately.

To ensure the safe operation of the products mentioned, correct maintenance and care of the products is essential.

Therefore, a functional or visual test should be carried out before each use. For this reason, we refer to the relevant sections in these instructions for use. There are no specific requirements for storing products before sterilization. We still recommend storing the medical devices in a clean and dry environment.

All medical instruments should always be handled with the greatest care when transporting, cleaning, maintaining, sterilizing and storing. This applies in particular to work ends, barriers and other sensitive areas.

## 10 INSTRUCTIONS FOR REPROCESSING

In general, medical instruments may only be reprocessed by persons who have the necessary expertise for the intended activities. Detailed information on the preparation of instruments can be found in the "Red Brochure" of the AKI.

Under [www.a-k-i.org](http://www.a-k-i.org) you will also find links to laws, standards and reprocessing expert committees. Steel instruments must not be placed in physiological saline solution (NaCl), prolonged contact can lead to pitting or stress corrosion.

Due to the product design and the materials used, no defined limit of maximum feasible applications can be set. The lifespan of medical devices is essentially determined by their function and careful handling. Frequent reprocessing has little impact on the product. End of product life is typically determined by wear and damage from use.

### 10.1 On-site preparation

Immediately after use, remove coarse dirt from the instruments. Do not use any fixing agents or hot water (>40°C), as this will cause residues to freeze and may affect the success of cleaning.

### 10.2 Transport

Safe storage in a closed container and transport of the instruments to the reprocessing site to avoid damage to the instruments and contamination to the environment.

### 10.3 Preparation for decontamination

If possible, the instruments must be disassembled or opened for reprocessing.

The instruments must be stored on machine-compatible instrument carriers in a washer-safe manner. The condition of the instrument panels must not impair the subsequent cleaning and disinfection by means of ultra-sound or rinsing shadows.

### 10.4 Manual pre-cleaning

For manual cleaning / pre-cleaning, never use metal brushes, metal sponges or abrasive cleaning agents.

Place the instruments in cold water for at least 5 minutes. If possible, disassemble the instruments and clean them under cold water with a soft brush until no residue is visible. Pressure flush cavities, holes and threads with a water gun for at least 10 seconds (pulsed method, minimum pressure 2 bar). Place instruments in an ultrasonic bath at 40°C for 15 minutes with 0.5% alkaline or enzymatic cleaner and sonicate. Remove instruments and rinse with cold water.

The cleaning solution should be changed at least once a day, more often if necessary. Too much contamination impairs the cleaning effect and increases the risk of corrosion. National laws and guidelines must be observed.





**10.5 Automated cleaning**

Place the opened instruments in a sieve tray on the slide-in carriage and start the cleaning process. Disassemble instruments as much as possible.

Step	Parameter	
<b>Pre-rinsing 1</b>	Rinsing-temperature + water quality	Cold tap water
	Exposure time	60 s
<b>Pre-rinsing 2</b>	Rinsing-temperature + water quality	Cold tap water
	Exposure time	180 s
<b>Cleaning</b>	Cleaning-temperature	45°C
	Water quality	Tap water
	Exposure time	300 s (worst case condition) / RKI Recommendation: 600 s
	Detergent	Neodisher Medizym
	Concentration	0,50 %
<b>Neutralization</b>	Rinsing-temperature	40°C
	Water quality	Tap water
	Exposure time	180 s
	Neutralizing detergent	Neodisher Z
	Concentration	0,10 %
<b>Post-rinsing</b>	Rinsing-temperature	40 °C
	Water quality	Deionized water
	Exposure time	120 s

**10.6 Automated (thermal) disinfection**

Step	Parameter	
<b>Thermal Disinfection</b>	Disinfection-temperature	90°C (A <sub>0</sub> 3000)
	Water quality	Deionized water
	Exposure time	300 s
<b>Drying</b>	Drying of the outside of the instruments by the drying cycle of the washer-disinfector. If necessary, manual drying can also be achieved with the help of a lint-free cloth. Dry cavities and channels of the instruments with sterile compressed air. Allow products need to cool down to room temperature.	

**10.7 Functional testing**

After each cleaning, the products must be macroscopically clean, i.e. free of visible contamination. Stained products must be sorted out immediately and given special treatment. All moving parts must be checked with particular attention. If errors or damage occur, the products must be sorted out immediately.

**10.8 Care of the instruments**

“Care” basically means the application of instrument oil or instrument milk (emulsion of white oil in water). Products with movable jaws, joints, locks or with metal sliding surfaces must be treated with steam-sterilizable paraffin oil-based care products. The paraffin oil must comply with the applicable pharmacopoeia and be physiologically harmless. (Further information can be found in DIN 96298-4.)

**10.9 Packaging**

Select standard-compliant packaging of the instruments for sterilization according to DIN EN ISO 11607-1, DIN EN 868-2 and DIN EN 868-8.

**10.10 Sterilization**

Sterilization of the products using a fractionated vacuum process (according to DIN EN ISO 17665-1), taking into account the respective national requirements.

<b>Pre-vacuum</b>	3 times
<b>Sterilization temperature</b>	134 °C
<b>Sterilization time</b>	5 min
<b>Drying time</b>	20 min.

The use of other sterilization methods is beyond our responsibility.

**10.11 Storage**



The sterilized instruments must be stored in suitable packaging in a dry, clean and dust-free environment and at a constant level of humidity. The distance between the floor and the shelf should be at least 30cm. The storage period is to be determined by the user himself.





## 10.12 Information on the validation of the reprocessing

The following materials and machines were used in the processing process:

<b>Detergent</b>	Neodisher Medizym 0,5 % (v/v)
<b>Neutralisator</b>	Neodisher Z 0.1% (v/v)
<b>Washer-disinfector (RDG)</b>	Miele PG 8535
<b>Steam-autoclave</b>	Lautenschläger ZentraCert
For details see test reports: 23277 / 23278 / 23279 (CleanControlling Medical GmbH & Co. KG, 08-2021)	

## 11 ADDITIONAL INSTRUCTIONS



If the chemicals and machines described above are not available, it is up to the user to validate his process accordingly. It is the responsibility of the user to ensure that the remanufacturing process, including resources, materials and personnel, is suitable to achieve the required results.

The state of the art and national laws require the following of validated processes.

During reprocessing, the temperature acting on the instrument should not exceed 140°C. In principle, mechanical cleaning and disinfection are always preferable to manual cleaning. With mechanical cleaning and disinfection, there is greater safety in the process. The instruments must not be sterilized in hot air sterilizers. Strongly alkaline cleaning agents damage plastics and anodized coatings.

## 12 REPORTABLE EVENTS



In accordance with the requirements of the Medical Device Regulation EU MDR 2017/745 and our quality management system, even the smallest problems with this product should always be reported to Tekno-Medical.

If you cannot reach us directly for reportable events, please send an e-mail to: [safety@tekno-medical.com](mailto:safety@tekno-medical.com).

Serious incidents must also be reported to the competent authority in their place

## 13 WARRANTY

The products are made of high-quality materials and undergo quality control before delivery. However, if errors occur, please contact our service. Tekno-Medical cannot guarantee that the products are suitable for the respective procedure. This must be determined by the user himself. Tekno-Medical accepts no liability for any incidental or consequential damages. Tekno-Medical assumes no liability if it can be proven that these instructions for use have been violated.



**Attention:** In case of use of the instruments in patients with Creutzfeldt-Jakob disease or its variants (vCJD, BSE, TSE), Tekno-Medical declines any responsibility for reuse.

## 14 SERVICE AND REPAIR

Do not carry out repairs or modifications of the product on your own. Repairs only by authorized personnel.

Defective products must have gone through the entire remanufacturing process before being returned for repair. For returns, use our RMA request form and decontamination certificate.

Forms at: [https://www.tekno-medical.com/de/service/repair\\_service](https://www.tekno-medical.com/de/service/repair_service)

## 15 SYMBOLS

The symbols used in this instruction and on the label have the following meaning according to DIN EN ISO 15223-1:

	Attention!		Manufacturer
	Medical device		Date of manufacturing
	Non-sterile		Read the instructions for use
	Catalogue number		Protect from sunlight
	Lot-number		Store in a dry place
	Unique device identification		CE marking





25236-23	70100-79.	70120-18L	70217-13L	71127-18	71195-78*	71510-01*
25237-24	70100-79A	70120-18R	70217-13R	71127-19	71197-01	71582-00*
25238-19	70100-79C	70120-201	70217-14L	71127-20	71197-02	71584-00*
25239-19	70100-86A	70120-203	70217-14R	71130-17*	71197-03	71586-00
25329-19*	70100-86B	70120-210H	70219-41	71130-19	71198-01*	71588-01*
25345-10	70100-86C	70120-210S	70219-42	71136-00*	71199-01	71590-05*
70050-01	70100-87	70120-210S.	70219-43	71136-01*	71199-02	71590-06*
70050-02	70100-94*	70120-222	70219-44	71136-02*	71200-03*	71590-07*
70050-03	70100-95*	70120-222.	70219-45	71136-03*	71200-04*	71593-00*
70050-04	70101-01*	70120-23	70219-46	71136-04*	71200-07*	71593-01*
70050-05	70101-02*	70120-23.	70219-47	71137-01*	71208-11	71595-02*
70050-06	70102-01	70120-24*	70219-48	71137-02*	71208-12	71597-03*
70052-01	70102-02	70120-286	70219-49	71137-03*	71208-13	71597-04*
70052-02	70102-04	70120-288*	70219-50	71137-03A*	71208-14	71597-05*
70052-03	70102-07	70120-32	70219-51	71137-04*	71210-05*	72180-01
70052-04	70102-13	70120-32A	70219-52	71137-05	71210-06*	72180-02
70052-05	70102-17	70120-35*	70219-53	71137-05A	71211-04	72180-03
70052-06	70102-18	70120-53L	70219-54	71137-05B	71211-07	72180-04
70054-01	70102-22	70120-53L.	70219-55	71137-06	71211-56	72180-05
70054-02	70102-33	70120-53R	70220-01	71137-07	71212-01	72181-01
70054-03	70102-51A	70120-53R.	70220-02	71137-10	71212-02	72181-02
70054-04	70102-67A	70120-62*	70220-03	71137-13	71212-03	72181-03
70056-02*	70102-74	70120-65	70220-04	71137-14	71212-04	72181-04
70060-01*	70102-79	70120-65.	70220-05	71138-00	71212-05	72182-01
70060-02*	70104-00	70120-69	70220-06	71138-01	71212-06	72182-02
70060-03	70104-22L	70120-69.	70220-07	71138-02	71212-07	72183-01
70060-04	70104-22R	70120-85	71018-00	71138-11	71212-08	72185-01
70060-05	70104-43A*	70120-85A*	71018-01	71138-12	71212-09	72185-02
70060-05.	70104-51LX	70120-88L	71018-02	71138-13	71212-10	72185-03
70060-05HF	70104-59L	70120-88L.	71020-01	71141-01	71212-23	72185-04
70060-06	70105-01MD	70120-88R	71020-02	71141-02	71213-01	72185-05
70060-08	70105-02MD	70120-88R.	71020-03	71141-03	71213-02	72186-01
70061-03.*	70105-03MD	70120-89*	71020-08	71141-04	71213-03	72186-02
70063-16	70105-03MD.	70120-89.*	71020-09	71141-05	71213-04	72186-03
70064-01*	70105-04MD	70120-90*	71020-11	71141-64	71213-05	72186-04
70064-03*	70106-01	70120-90.*	71020-12	71141-65	71213-06	72188-01
70064-03.	70106-07	70120-99A*	71020-13	71141-66	71213-07	72188-02
70064-05	70106-13	70120-99C*	71020-14	71143-02*	71213-08	72188-03
70064-07	70106-17	70130-150*	71020-15	71143-03*	71213-09	72188-04
70064-08	70106-18	70130-17SK	71020-16	71143-04*	71213-10	72189-01
70064-08.	70106-22	70130-23SK	71025-15	71143-05*	71215-01*	72189-02
70066-10*	70106-33	70200-00*	71026-13	71143-06*	71215-03*	72189-03
70070-15*	70106-34	70200-01	71027-13	71143-07*	71230-00*	72190-01
70070-15.	70106-36	70200-02	71027-13.	71145-02*	71240-51	72190-02
70075-12	70106-46L.*	70200-03	71028-13	71150-05	71240-53*	72190-03
70075-12.	70106-49	70200-04	71028-13.	71150-06	71240-63	72192-00
70075-12D	70106-51A	70200-05	71029-11	71150-07	71240-65	72192-01
70075-12M*	70106-51B	70200-06	71029-11HF	71150-08	71240-77*	72192-02
70078-15	70106-66L	70200-07	71030-15	71150-09	71240-78*	72192-03
70078-15.	70106-66R	70200-09	71031-15	71150-10	71240-79*	72192-04
70078-15HF	70106-73A*	70201-00*	71032-01	71150-11	71240-80*	72194-01



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70078-15HFE	70106-74	70201-01	71032-02	71150-14	71240-82*	72194-03
70079-15	70106-79	70201-02	71032-03	71150-15	71240-84*	72195-01
70079-16	70106-79C	70201-03	71033-01	71150-16	71245-12*	72196-11
70080-15	70106-97.	70201-10*	71033-02	71150-46	71265-28*	72196-13
70081-15	70110-13S	70201-19*	71033-03	71150-47	71265-31*	73355-02*
70100-01	70110-22S	70201-21	71034-01	71150-48	71265-33*	73356-02*
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70100-02	70110-30S	70202-06	71034-03	71150-60	71267-03*	73361-13
70100-04	70110-33S	70203-01	71100-02*	71151-01	71267-04*	73368-01
70100-07	70110-37	70203-02	71100-05*	71151-02	71267-05*	73368-02
70100-07.	70110-38	70203-03	71100-06*	71151-03	71267-06*	73369-12*
70100-08*	70110-39	70203-04	71100-08	71151-04	71269-01	73375-01*
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70100-17	70110-51S	70205-03*	71100-17	71151-07	71279-14*	73380-15*
70100-17.	70111-03	70205-04	71100-23	71152-01	71300-67*	73381-15*
70100-18	70111-03.	70205-05	71101-08	71152-02	71305-72*	73382-15+
70100-18.	70111-05	70206-01	71101-09	71152-03	71306-10	73383-16
70100-18A	70111-05.	70206-02	71101-17	71153-01	71306-20	73384-16
70100-19	70111-06	70206-03	71101-23	71153-02	71306-25	73385-14*
70100-20*	70111-07	70206-04	71113-06*	71153-03	71306-30	73389-13
70100-21	70111-07.	70207-27	71113-06A*	71153-04	71306-35	73389-23
70100-22	70111-137	70207-28	71113-07*	71154-01	71306-40	73389-30*
70100-22.	70111-137.	70207-39	71113-20*	71154-02	71309-84*	73394-13
70100-23	70111-139	70207-40	71113-23*	71154-03	71309-85*	73395-00
70100-24	70111-51S	70208-01	71113-42*	71154-04	71315-01*	73395-13
70100-29	70111-51S.	70208-02	71115-05	71160-01	71315-02	73397-00
70100-30	70120-01	70208-03	71115-09	71160-02	71317-01*	73398-00
70100-31*	70120-01.	70208-04	71115-11*	71160-03	71319-01*	73400-01
70100-33	70120-01A	70208-05	71116-01	71160-04	71319-02*	73400-03
70100-33.	70120-01B	70208-06	71116-05	71160-05	71327-03*	73400-06*
70100-33A*	70120-06	70208-07	71116-09	71160-06	71327-03S*	73400-07
70100-33L	70120-101	70208-08	71120-06	71161-01	71330-16*	73400-08*
70100-41	70120-101.	70208-09	71120-12	71161-02	71333-13.	73400-12*
70100-44	70120-103	70208-34	71120-14	71162-01	71337-18*	Z0000012668
70100-45	70120-10H	70208-34S	71120-71	71183-01	71403-01*	Z0000093273
70100-46LX	70120-10S	70210-01	71120-73	71183-02	71403-02*	Z0000100740
70100-49	70120-10S.	70210-02	71120-75	71183-03	71403-06*	Z0000100747
70100-51	70120-15	70210-03	71120-77	71183-04	71403-07*	Z0000103050
70100-51A	70120-150	70211-01	71120-79	71183-05	71405-01*	Z0000120211
70100-51A.	70120-150.	70211-02	71122-05*	71183-06	71405-02*	Z0000122770
70100-51L*	70120-150A	70211-03	71122-07*	71183-07	71405-04*	Z0000122941
70100-55	70120-150A.	70211-04	71122-09*	71183-08	71407-00	Z0000123242
70100-56	70120-150AB.*	70212-03	71122-11*	71184-01	71409-01	Z0000125143
70100-66L	70120-150S	70213-20	71122-13*	71184-02	71409-02	Z0000128967
70100-66R	70120-150S.	70213-21	71122-15*	71184-03	71409-03	Z0000128968
70100-67	70120-150X	70213-22	71122-17*	71184-04	71409-04	Z0000129096
70100-67A	70120-151	70213-23	71122-19*	71185-01	71445-00	Z0000129101
70100-67A.	70120-151.	70213-70	71122-21*	71185-02	71448-00	Z0000129426
70100-67L*	70120-151A	70213-71	71125-25*	71187-01	71450-00	Z0000129825
70100-67R*	70120-151A.	70215-00	71125-29*	71190-01*	71451-00	Z0000129831
70100-68	70120-151AB.*	70216-01*	71125-33*	71190-02*	71452-17	Z0000130035
70100-73	70120-151S	70216-02*	71126-01	71190-03*	71453-15	Z0000131299
70100-73.	70120-151S.	70216-03*	71126-02	71190-04*	71454-14	Z0000131300





# Instructions for use – Please read before use

10 / 10

70100-74	70120-151X	70217-01L	71126-03	71190-05*	71456-14	Z0000131309
70100-74.	70120-16	70217-01R	71126-04	71190-07*	71457-01	Z0000131310
70100-74N	70120-16.	70217-11L	71126-05	71193-05*	71457-02	
70100-74N.	70120-16S	70217-11R	71127-05	71195-12*	71457-03	
70100-75	70120-17	70217-12L	71127-14	71195-34*	71490-15	
70100-79	70120-17.	70217-12R	71127-17	71195-56*	71510-00	

