



clean  wave

„patent pending“

TONTARRA Medizintechnik GmbH
Surgical Instruments in Demand

**Laminectomy
Punches and Rongeurs**

KERRISON; Laminectomy Punches; **clean wave**



KERRISON with Standard footplate

Art.Nr.	Size	FL
240-072-02A-CW	2 mm	200 mm
240-072-03A-CW	3 mm	200 mm
240-072-04A-CW	4 mm	200 mm
240-072-05A-CW	5 mm	200 mm

Advantage of the clean wave system:

Especially the wavelike shape of the separating plane allows finding impurities and stains on the sliding shaft instrument which can be removed and cleaned when being detected.

The effectiveness of a standardized cleaning procedure was evaluated and documented by an independent hygiene laboratory.

The excellent cleaning results can be attributed to the fact that any type of cleaning utensil reaches very easily the area between upper and lower part of the sliding shaft instrument.

Beyond the cleaning aspect thanks to the wavelike shape there is a clear reduction of friction of the sliding parts.

FL = function length

KERRISON; Laminectomy Punches; **clean wave**

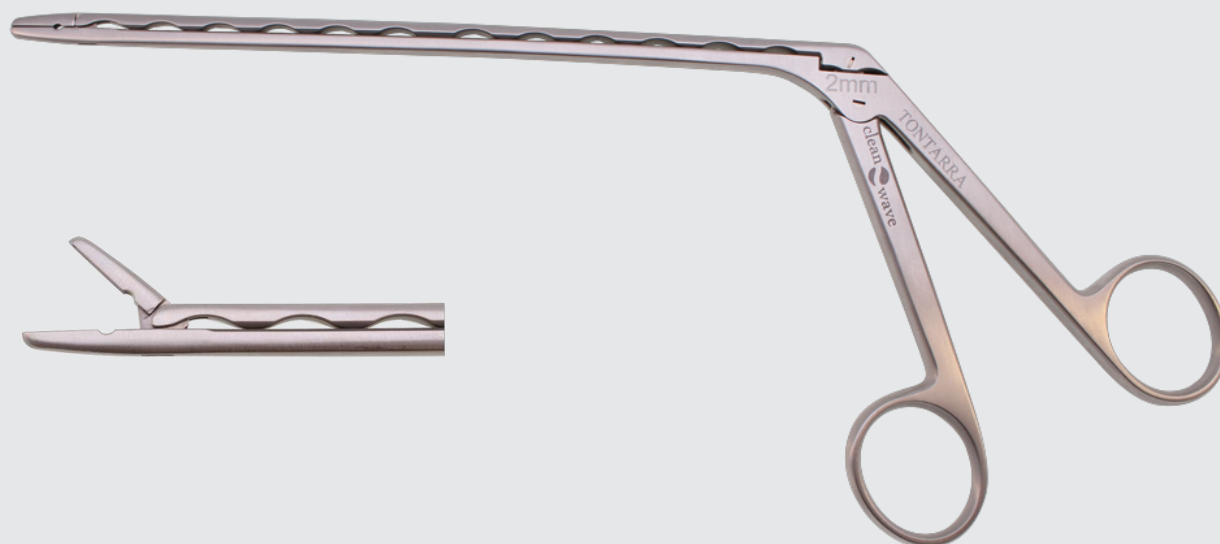


KERRISON **thin footplate**

Art.Nr.	size	FL
240-072-02AT-CW	2 mm	200 mm
240-072-03AT-CW	3 mm	200 mm
240-072-04AT-CW	4 mm	200 mm
240-072-05AT-CW	5 mm	200 mm

Laminectomy Rongeurs; **clean wave**

CUSHING, LOVE-GRUENWALD, SPURLING

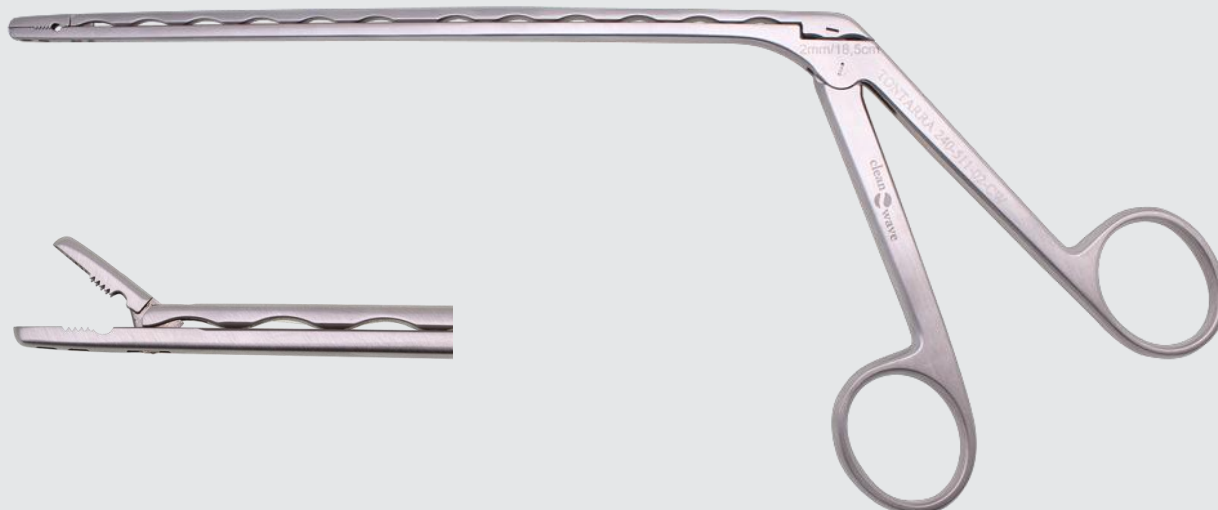


Art.Nr.	Spez.	Jaw Size	FL
CUSHING			
240-552-02-CW	straight	2,0x 10,0 mm	180 mm
240-602-02-CW	angled up	2,0x 10,0 mm	180 mm
240-652-02-CW	angled down	2,0x 10,0 mm	180 mm
LOVE-GRUENWALD			
240-552-03-CW	straight	3,0x 10,0 mm	180 mm
240-602-03-CW	angled up	3,0x 10,0 mm	180 mm
240-652-03-CW	angled down	3,0x 10,0 mm	180 mm
SPURLING			
240-552-04-CW	straight	4,0x 10,0 mm	180 mm
240-602-04-CW	angled up	4,0x 10,0 mm	180 mm
240-652-04-CW	angled down	4,0x 10,0 mm	180 mm

Laminectomy Rongeurs; **clean wave**

Caspar

Laminectomy Rongeurs; **clean wave**; **toothed**



Art.Nr.	Spez.	Jaw Size	FL
240-511-02-CW	straight	2x12	185 mm
240-511-03-CW	straight	3x12	185 mm
240-511-04-CW	straight	4x14	185 mm
240-515-02-CW	angled up	2x12	185 mm
240-515-03-CW	angled up	3x12	185 mm
240-515-04-CW	angled up	4x14	185 mm
240-518-02-CW	angled down	2x12	185 mm
240-518-03-CW	angled down	3x12	185 mm
240-518-04-CW	angled down	4x14	185 mm

Manual Cleaning Process:

1. Immerse the instrument for 10 min into an ultrasonic bath at a minimum frequency of 35 kHz. For ultrasonic cleaning use an enzyme cleaning agent (MediZym 1% (v/v); Dr. Weigert GmbH) in demineralised water. Cleaning solution temperature at the beginning of ultrasonic treatment: 20 +/- 2°C.
2. Use a soft non-metallic brush (e. g. medium-hard toothbrush). The entire surface, especially the hardly accessible parts of the instrument must be brushed until no residues were visible (for at least 1 min) under running tap water (minimum quality: drinking water; temperature of 30 +/- 5°C).
3. All sliding surfaces, recesses and openings must be flushed under running tap water (minimum quality: drinking water; temperature of 30 +/- 5°C) for 1 min. Move at the same time the articulations and sliding surfaces by opening up and closing the instrument for 20 times.
4. Afterwards rinse the instrument for 5 seconds with demineralised water.
5. Finally rub down the instrument by using a lint free cloth. Insufflate cavities of the instrument by using sterile compressed air.

Automated Cleaning Process:

Transfer the instruments with non-contact into the washer/disinfector Miele G7882 (or into an adequate washer/disinfector) equipped with a standard cabinet with two levels.

Steps of the automated cleaning procedure:

1. Cold water rinse
2. Cleaning at 55 °C (-0 °C + 3 °C) for 5 min with cleaning agent Sekumatic Multiclean 0.7 % v/v (Ecolab # 5109TE062).
3. Neutralization with cold water and neutralizer Sekumatic FNP 0.1 % v/v (Ecolab # 5436TE015).
4. Cold water rinse.

Sterilisation:

Sterilization of instruments by applying a fractionated pre-vacuum process (according. ISO 13060 / ISO17665) under consideration of the respective country requirements.

Parameters for the pre-vacuum cycle:

- 3 prevacuum phases
- Heat up to a sterilization temperature of 132° +/- 1 ° C
- Minimum Holding time: 4 min
- Drying time: minimum 10 min

Additional Instructions:

It is the duty of the user to ensure that the reprocessing processes including resources, materials and personnel are capable to reach the required results. State of the art and often national law requiring these processes and included resources to be validated and maintained properly.

Attention!

The customer should be made aware, that prior to use always a visual test as well as a functional test should take place to assure that the device is safe and effective for its intended use. Instruments that are not in proper condition and not properly cleaned should be immediately removed from the tray.



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