



Strategic Business Holdings, Inc.

...Quality Products, Superior Customer Service, & Support



100% made in Germany

**Clean-Wave™ Kerrison
and Pituitary Rongeurs**

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Clean-Wave™ Kerrison and Pituitary Rongeurs

NO MORE BIOBURDEN



**SBH offers the sharpest and long lasting
Clean-Wave™ Kerrison Rongeurs.**

100% made in Germany



Advantages of the Clean-Wave System™:

The wavelike shape of the separating plane allows 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 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.

Beyond the cleaning aspect, and also due to the wavelike shape, there is a clear reduction of friction of the sliding parts.



Special features

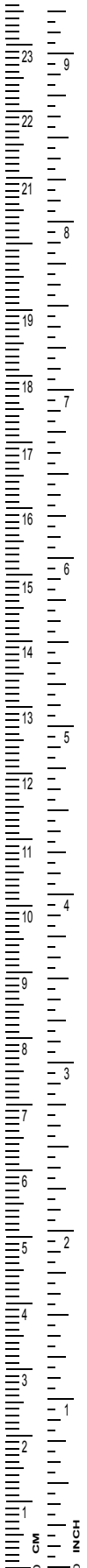
- Single-component system | Disassembling not required | Easy cleaning
- Fatigue-free operations due to smooth-running and ergonomic design
- No loss of instruments parts (screws, etc.) during cleaning and autoclavation
- Ensures easy, safe and time-saving operations

Punches: A wide array of options available

- A variety of different shaft length on offer
- Different bite width and styles available
- Optional with ejector
- Optional with thin foot plate
- Optional ceramic-coated

Rongeurs: A wide array of options available

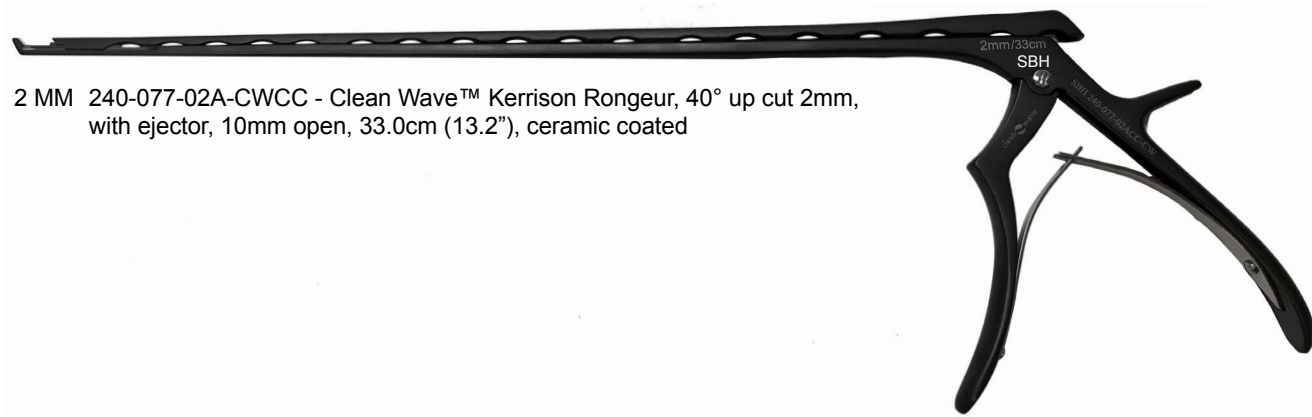
- Different lengths of shafts
- Different bite width and styles available
- Patterns: Cushing, Love-Grünwald, Spurling, Caspar, Wilde
- Optional ceramic-coated



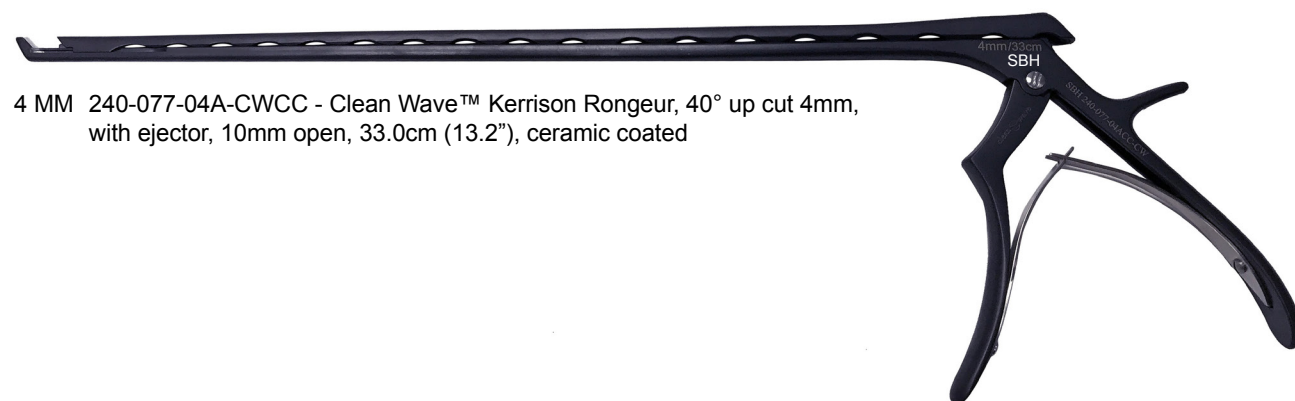


Clean-Wave™ Kerrison Rongeurs

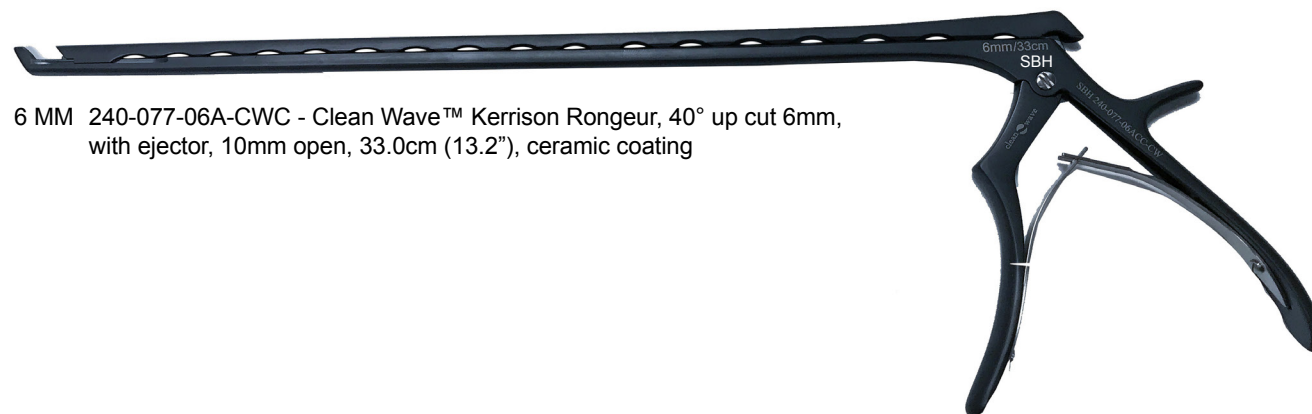
Not Actual Size Shown



2 MM 240-077-02A-CWCC - Clean Wave™ Kerrison Rongeur, 40° up cut 2mm, with ejector, 10mm open, 33.0cm (13.2"), ceramic coated



4 MM 240-077-04A-CWCC - Clean Wave™ Kerrison Rongeur, 40° up cut 4mm, with ejector, 10mm open, 33.0cm (13.2"), ceramic coated



6 MM 240-077-06A-CWC - Clean Wave™ Kerrison Rongeur, 40° up cut 6mm, with ejector, 10mm open, 33.0cm (13.2"), ceramic coating

Also available in Stainless Steel

Clean-Wave™ Pituitary Rongeurs



Not Actual Size Shown



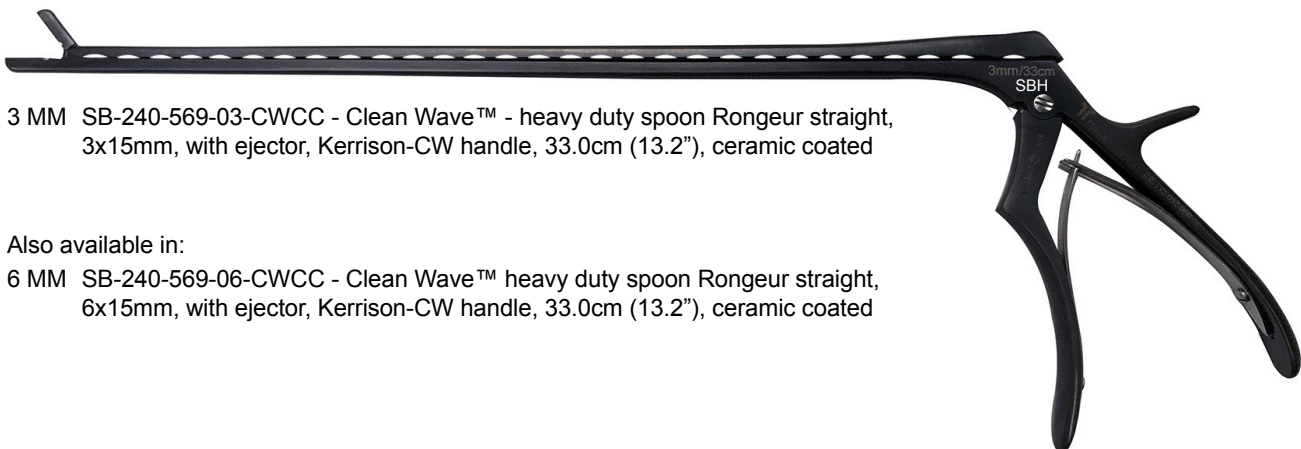
240-511-04/30CW - Clean Wave™ Caspar Disc Rongeur straight
4x12 mm, toothed, 30cm Long



240-515-02/30CW - Clean Wave™ Caspar Disc Rongeur Angled Up,
2x12mm, toothed, 30cm Long



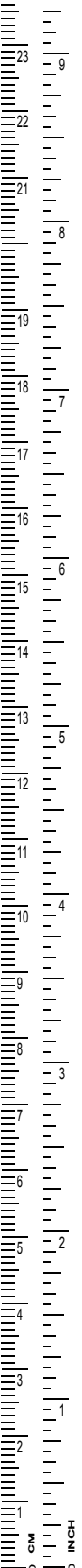
240-515-03/30CW - Clean Wave™ Caspar Disc Rongeur Angled Up,
3x12mm, toothed, 30cm long



3 MM SB-240-569-03-CWCC - Clean Wave™ - heavy duty spoon Rongeur straight,
3x15mm, with ejector, Kerrison-CW handle, 33.0cm (13.2''), ceramic coated

Also available in:

6 MM SB-240-569-06-CWCC - Clean Wave™ heavy duty spoon Rongeur straight,
6x15mm, with ejector, Kerrison-CW handle, 33.0cm (13.2''), ceramic coated

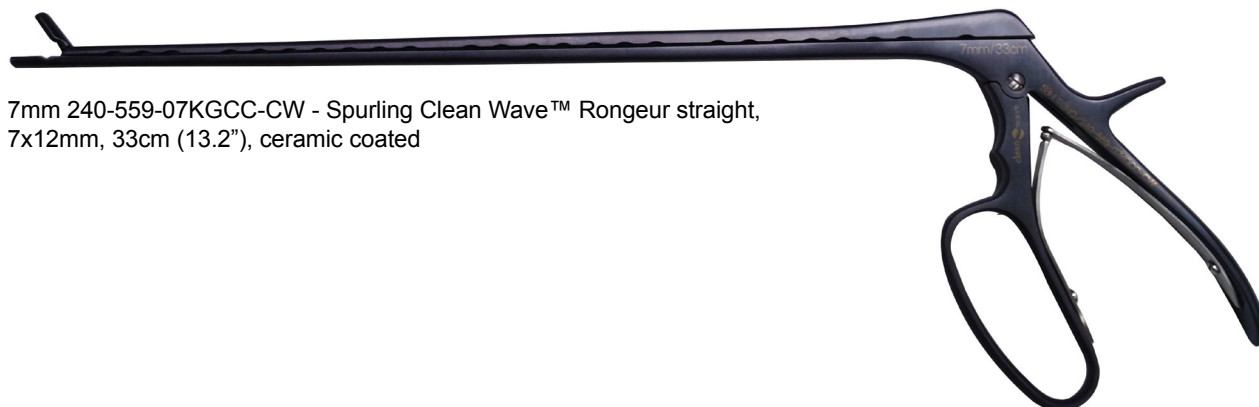


Also available in Ceramic Coating



Clean-Wave™ Pituitary Rongeurs

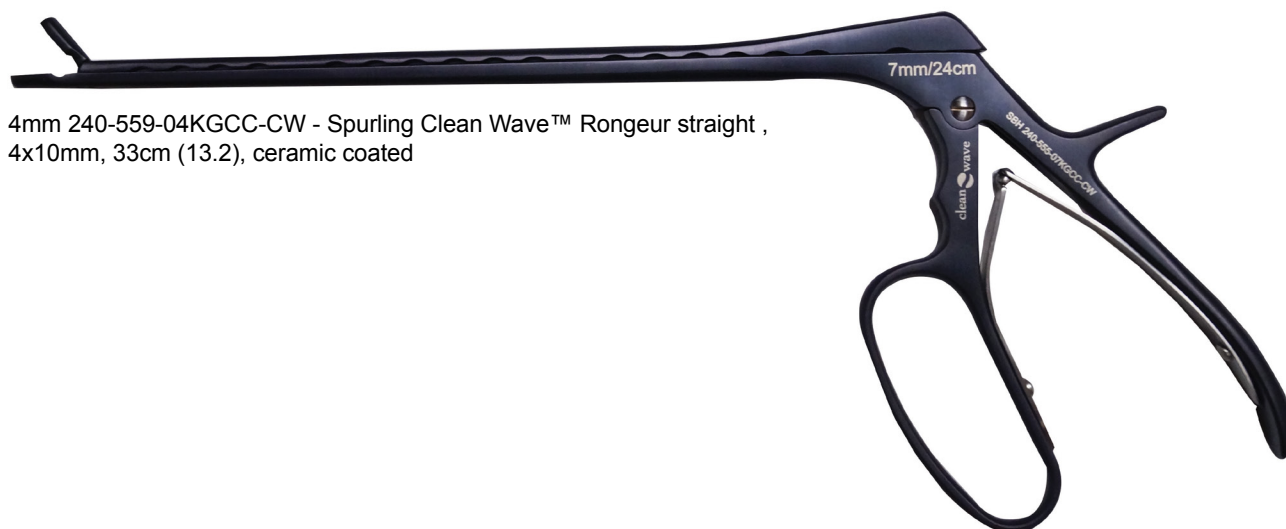
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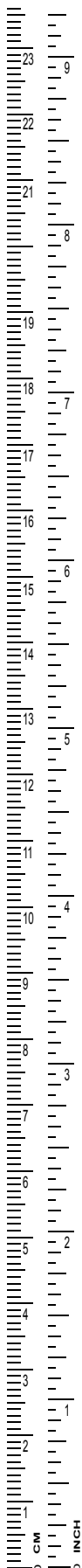
7mm 240-559-07KGCC-CW - Spurling Clean Wave™ Rongeur straight,
7x12mm, 33cm (13.2''), ceramic coated



7mm 240-555-07KGCC-CW - Spurling Clean Wave™ Rongeur straight,
7x12mm, 33cm (13.2''), ceramic coated



4mm 240-559-04KGCC-CW - Spurling Clean Wave™ Rongeur straight ,
4x10mm, 33cm (13.2''), ceramic coated





Not Actual Size Shown

CASPAR



Article #	Specification	Jaw Size	FL
SB-511-02-CW	straight	2x12	185mm
SB-511-03-CW	straight	3x12	185mm
SB-511-04-CW	straight	4x14	185mm
SB-515-02-CW	angled up	2x12	185mm
SB-515-03-CW	angled up	3x12	185mm
SB-515-04-CW	angled up	4x14	185mm
SB-518-02-CW	angled down	2x12	185mm
SB-518-03-CW	angled down	3x12	185mm
SB-518-04-CW	angled down	4x14	185mm

Also available in Ceramic Coating



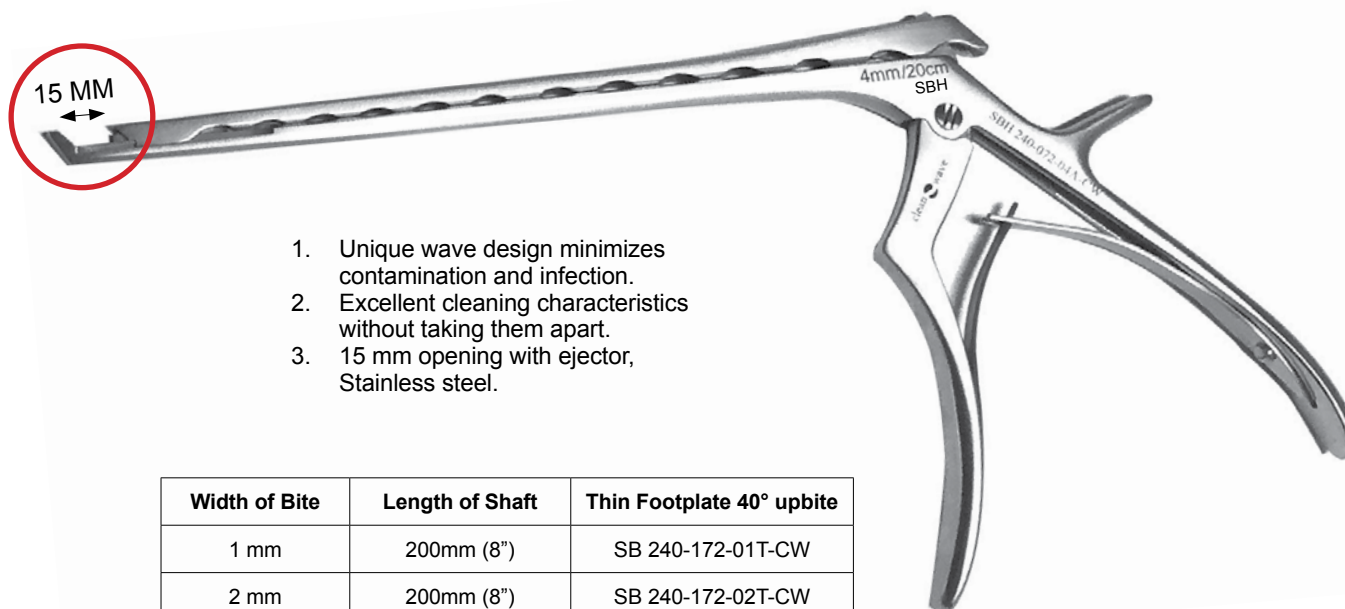
Clean-Wave™ Kerrison Rongeurs

Not Actual Size Shown



1. Unique wave design minimizes contamination and infection.
2. Excellent cleaning characteristics without taking them apart.
3. 15 mm opening with ejector, Ceramic coated.

Width of Bite	Length of Shaft	Thin Footplate 40° upbite
1 mm	200mm (8")	SB 240-172-01TCW-CC
2 mm	200mm (8")	SB 240-172-02TCW-CC
3 mm	200mm (8")	SB 240-172-03TCW-CC
4 mm	200mm (8")	SB 240-172-04TCW-CC
5 mm	200mm (8")	SB 240-172-05TCW-CC



1. Unique wave design minimizes contamination and infection.
2. Excellent cleaning characteristics without taking them apart.
3. 15 mm opening with ejector, Stainless steel.

Width of Bite	Length of Shaft	Thin Footplate 40° upbite
1 mm	200mm (8")	SB 240-172-01T-CW
2 mm	200mm (8")	SB 240-172-02T-CW
3 mm	200mm (8")	SB 240-172-03T-CW
4 mm	200mm (8")	SB 240-172-04T-CW
5 mm	200mm (8")	SB 240-172-05T-CW



Not Actual Size Shown

CUSHING, LOVE-GRUENWALD, SPURLING



CUSHING, Laminectomy Rongeurs

Length of Shaft 180mm, Jaw Size 2.0 x 10.0mm

Straight	Angled-up	Angled down
SB-552-02-CW	SB-602-02-CW	SB-652-02-CW

LOVE-GRUENWALD, Laminectomy Rongeurs

Length of Shaft 180mm, Jaw Size 3.0 x 10.0mm

Straight	Angled-up	Angled down
SB-552-03-CW	SB-602-02-CW	SB-652-03-CW

SPURLING, Laminectomy Rongeurs

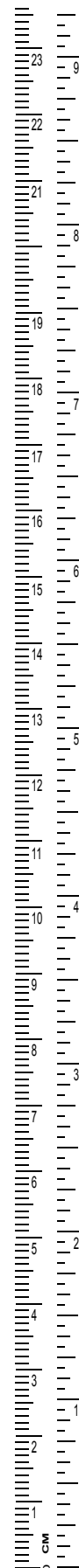
Length of Shaft 180mm, Jaw Size 4.0 x 10.0mm

Straight	Angled-up	Angled down
SB-552-04-CW	SB-602-04-CW	SB-652-04-CW

Also available in shaft lengths of:

- a. 13cm, 5.2"
- b. 15cm, 6"
- c. 23cm, 9.2"
- d. 28cm, 11.2"

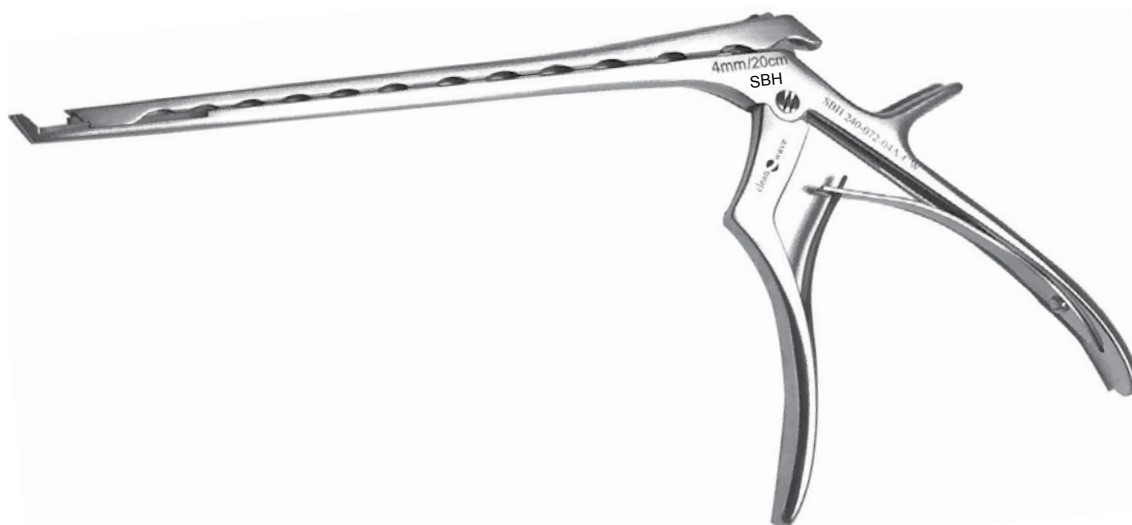
Also available in Ceramic Coating





Clean-Wave™ Kerrison Rongeurs

Not Actual Size Shown



With ejector

Width of Bite	Length of Shaft	Standard Footplate 40°	Thin Footplate 40°
1 mm	180 mm	SB-071-01A CW	SB-071-01AT CW
2 mm	180 mm	SB-071-02A CW	SB-071-02AT CW
3 mm	180 mm	SB-071-03A CW	SB-071-03AT CW
4 mm	180 mm	SB-071-04A CW	SB-071-04AT CW
5 mm	180 mm	SB-071-05A CW	SB-071-05AT CW

With ejector

Width of Bite	Length of Shaft	Standard Footplate 40°	Thin Footplate 40°
1 mm	200mm	SB-072-01A CW	SB-072-01AT CW
2 mm	200mm	SB-072-02A CW	SB-072-02AT CW
3 mm	200mm	SB-072-03A CW	SB-072-03AT CW
4 mm	200mm	SB-072-04A CW	SB-072-04AT CW
5 mm	200mm	SB-072-05A CW	SB-072-05AT CW

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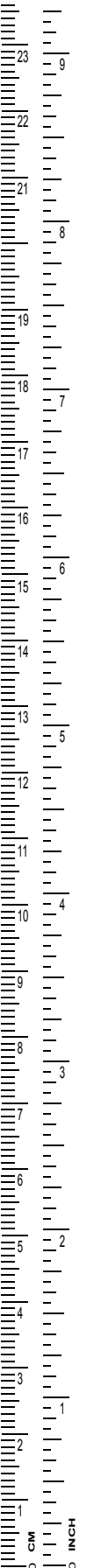


With ejector

Width of Bite	Length of Shaft	Standard Footplate 40°	Thin Footplate 40°
1 mm	180 mm	SB-071-01A CWCC	SB-071-01AT CWCC
2 mm	180 mm	SB-071-02A CWCC	SB-071-02AT CWCC
3 mm	180 mm	SB-071-03A CWCC	SB-071-03AT CWCC
4 mm	180 mm	SB-071-04A CWCC	SB-071-04AT CWCC
5 mm	180 mm	SB-071-05A CWCC	SB-071-05AT CWCC

With ejector

Width of Bite	Length of Shaft	Standard Footplate 40°	Thin Footplate 40°
1 mm	200mm	SB-072-01A CWCC	SB-072-01AT CWCC
2 mm	200mm	SB-072-02A CWCC	SB-072-02AT CWCC
3 mm	200mm	SB-072-03A CWCC	SB-072-03AT CWCC
4 mm	200mm	SB-072-04A CWCC	SB-072-04AT CWCC
5 mm	200mm	SB-072-05A CWCC	SB-072-05AT CWCC





Cleaning and Sterilization Process

Manual Cleaning Process:

1. Immerse the instrument for 10 minutes into an ultrasonic bath at a minimum frequency of 35 kHz. For ultrasonic cleaning use an enzyme cleaning agent 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 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.

Sterilization:

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:

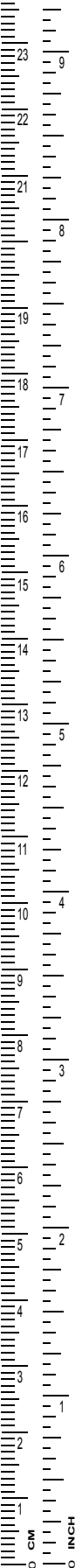
- 3 prevacuum phases
- Heat up to a sterilization temperature of 134°
- Minimum holding time: 4 min
- Drying time: minimum 10 min

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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