TSUNAMI MEDICAL

THE WAVE OF INNOVATION

Surgical Technique

CAPRAIA-Z

ACIF 3D Printed Titanium Cage

Built-in Fixation

Bone InGrowth Technology®

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Capraia-Z Overview

Capraia-Z, ACIF 3D printed Interbody Fusion Cage, presents the following main characteristics:

- **Excellent Stability**

The unique "net" structure, obtained through additive manufacturing technology, provides strong primary fixation and elimination of implant migration risk.

- **Wide Variety of Footprints, Heights & Lordosis Angles**

One system matching patients' natural anatomy and surgeons' preferences.

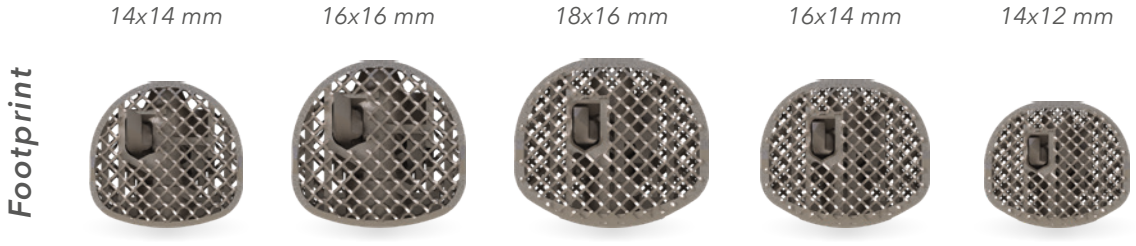
- **Bone InGrowth Technology**

Pore size of the net structure and the surface roughness of the implant edges facilitate fast and effective osteo-integration.
The elasticity modulus of the implant, similar to PEEK, is close to natural bone characteristics and is a key success factor.

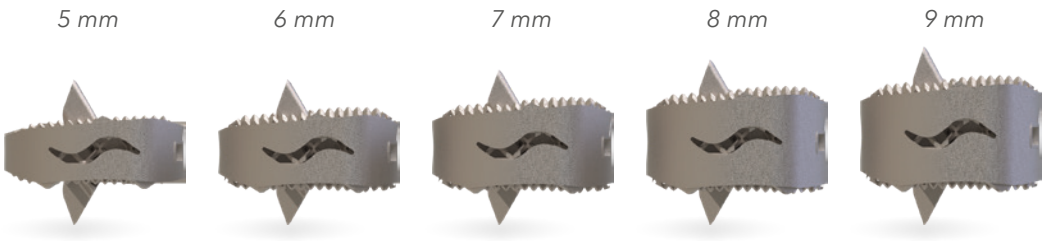
- **Additional Built-in Fixation**

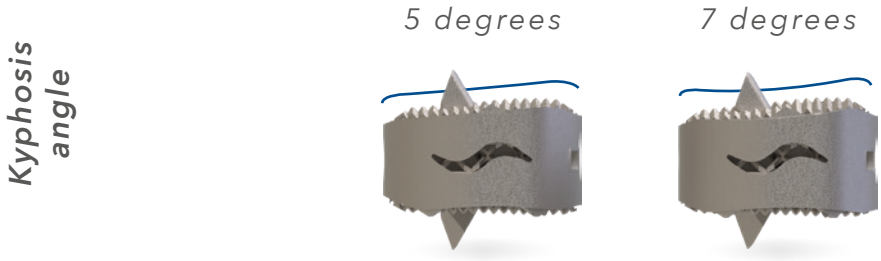
Built-in pins contribute to further enhance primary fixation, as already guaranteed by the excellent stability provided by the "net" structure.
By using pins instead of screws as an additional fixation feature, there is no extra material on the implant required to secure the fixation mechanism. Thus, the elasticity features of the implant are not compromised, allowing for bone in-growth. The diagonal position of the pins secures rotation stability. Capraia-Z is manufactured in one production step, thanks to the additive manufacturing technology used. No additional instruments are required for implantation: the pins are extracted by a feature on the amended original Capraia implant inserter. It is possible to retract the pins, when needed.

For Capraia-Z, Tsunami Medical offers five footprints and six heights with one possible Lordosis angle of 5 degrees, as outlined below.



Capraia-Z Overview





Product Reference Codes

Ref. Code	Dimensions
	Square footprints
ACCZ141405**	Footprint Size **14x14mm** - Angle **5°** Range of Heights [mm] **05, 06, 07, 08, 09**
ACCZ161605**	Footprint Size **16x16mm** - Angle **5°** Range of Heights [mm] **05, 06, 07, 08, 09**
	Rectangular footprints
ACCZ141205**	Footprint Size **14x12mm** - Angle **5°** Range of Heights [mm] **05, 06, 07, 08, 09**
ACCZ141207**	Footprint Size **14x12mm** - Angle **7°** Range of Heights [mm] **05, 06, 07, 08, 09**
ACCZ161405**	Footprint Size **16x14mm** - Angle **5°** Range of Heights [mm] **05, 06, 07, 08, 09**
ACCZ161407**	Footprint Size **16x14mm** - Angle **7°** Range of Heights [mm] **05, 06, 07, 08, 09**
ACCZ181605**	Footprint Size **18x16mm** - Angle **5°** Range of Heights [mm] **05, 06, 07, 08, 09**

** Choose preferred height and use it instead of the asterisks to get the final reference.

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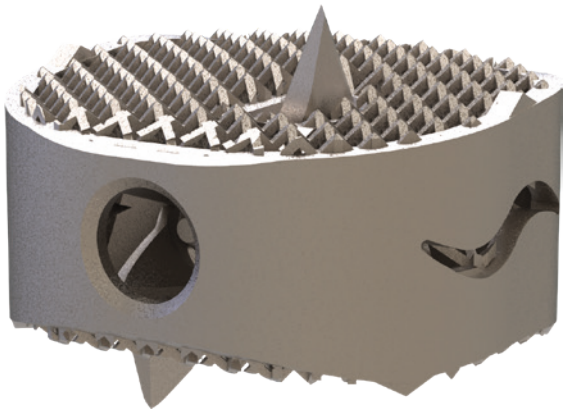
CAPRAIA

Capraia Intended Use

Capraia-Z is intended to recreate and maintain distance between vertebras to support biologic fusion in the cervical spine. When surgeons deem necessary to add an additional bone growth accelerator, Tsunami Medical's Universal Filling System supports the bone substitute filling procedure, either at pre-implantation or post-implantation stage of the surgical procedure, in an effective way.



Because of the built-in fixation with pins feature, Capraia-Z doesn't require supplemental fixation. However, based on surgeons' preference Capraia-Z can be used in combination with supplemental fixation, such as:

- Posterior stabilisation with pedicle screw systems
- Anterior fixation (cervical plate)
- Facet fixation (Tsunami Medical's Filicudi)

Interbody fusion cages are intended to be used exclusively by professionals with appropriate trainings accomplished.
The Instructions For Use (IFU) should be respected at all times.

Indications

Capraia-Z is intended for cervical interbody fixation for the following indications:

(1) Degenerative disc disease.
(2) Spinal stenosis.
(3) Revision surgery for failed disc surgery or progressive degenerative discopathies.
(4) Foraminal stenosis or nerve compression.
(5) Tumour.
(6) Pseudo-arthrosis.
(7) Instability of motion segments.

Contraindications

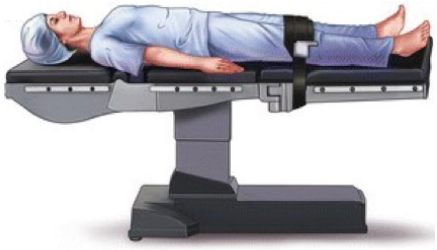
Contraindications include, but are not limited to:

(1) Risk of infection or infection in progress, or fever or inflammation.
(2) Obesity.
(3) Pregnancy.
(4) Mental illness.
(5) Allergy on any system components.
(6) Any anatomical, medical or surgical conditions which may preclude potential or intentional benefits of spinal implants application.
(7) Bone, joints or ligaments conditions such but not limited as: osteopenia, bone absorption, osteomalacia. Osteoporosis is relative contraindications a must be carefully evaluated prior surgery.
(8) Implants size, shape or anchorage functionality might be not enough to achieve expected clinical results.
(9) Combination with implants from other manufacturers.
(10) Potential risk of unexpected patient's anatomy destruction, interference with neurological, functional or other deficits.
(11) Any risk of patient's unwillingness to follow postoperative instructions.
(12) Any other not described in indications.

Caution: in case of reuse there is a danger of cross contamination; any reuse is therefore not permitted.

Patient Positioning

Patient position should expose the spine level, which is going to be fused. Hyper-lordosis or kyphosis should be avoided. By using the C-Arm, the proper level of the cervical spine must be verified. Skin incision should allow an adequate approach to the stabilising spine segment(s). Additional instruments like a vertebral distractor and soft tissue retractors are subject of additional spacing requirements.
To maintain a comfortable surgical field, a tissue retractor system is highly recommended: (**BOK-CS-07** L or R in combination with **BOK-CS-05** and **BOK-CS-10-12-14-16**, after bone preparation with **BOK-CS-08**).

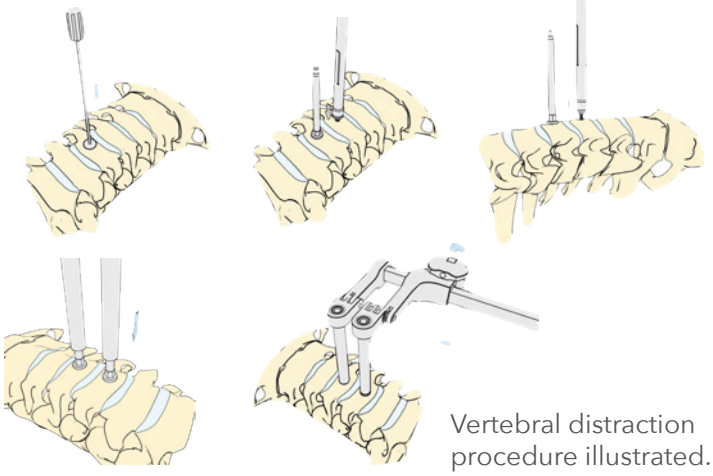


Vertebral Distraction

Determine the length of the Distraction Screw (**BOK-CS-10-12-14-16**) on a lateral X-ray. Assemble an appropriate Distraction Screw into the Distraction Screw Driver (**BOK-CS-05**).

Define the midline and mark up the entering point by using the Vertebral Body Perforator (**BOK-CS-08**).

Insert the Distraction Screws, install the Caspar Distractor (**BOK-CS-07 L** or **R**) and perform vertebral distraction.



Vertebral distraction procedure illustrated.

BOK-CS-10

Please keep positioning the distraction screws parallel in order to facilitate further distraction engagement.

BOK-CS-05

BOK-CS-08

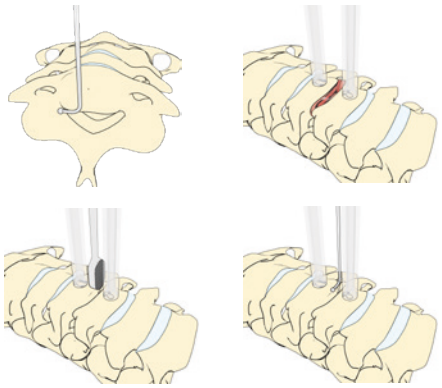
BOK-CS-07L

Disc Removal and Endplate Preparation

Remove the disc and cartilage layer on both the superior and inferior vertebral endplates. Use the Square Curette (**BOK-CS-04**) to facilitate cartilage removal. In order to check root decompression a Cervical Nerve Hook may be used.

Capraia-Z ACIF Cage facilitates Bone InGrowth on and through the unique titanium net structure that allows free flow of bone growth cells. The use of the Capraia-Z shaver (**BOK-CS-03**) is recommended when preparing the endplates in order to create efficient bone contact.

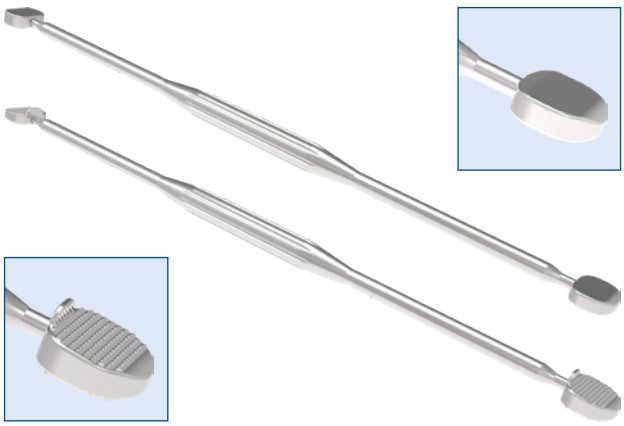
BOK-CS-04



Endplate preparation procedure illustrated.

Implant Dimension Choice

When trialing is performed, using Capraia implant trials, in accordance with the appropriate footprint **(BOK-CS-0*0*W*)** a Lateral X-ray is highly recommended in order to determine the implant's height and depth. Implant Trials should be inserted in the mid-line. Implant's width is determined based on visual evaluation.



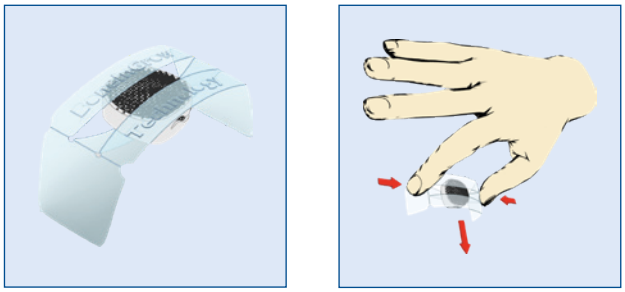
Release the distraction of the Caspar Distractor and check if the Implant Trial fits firmly between endplates.

Please note that Implant Trials are designed in 0 degrees/ "flat" lordosis angle, whereas Capraia-Z implants have a standard lordosis angle of 5 degrees. **Once the appropriate size and footprint is selected, the use of Capraia-Z Implant trial rasps (BOK-CSZ-R****W*) is mandatory to facilitate expansion of the the implant's fixation pins.**

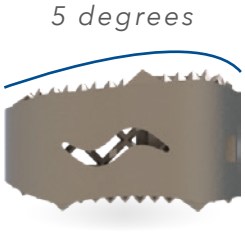
After sizing and end-plate preparation, choose the implant selection according to the outcome of the trial procedure.

Implant Packaging

The implant is supplied in a double rigid blister pack with a special internal holder.
The rotation nurse opens the outer (non-sterile) blister of the implant and hands the implant to the sterile OR nurse or scrub technician. The sterile OR nurse removes the inner (sterile) blister, opens it, takes out the holder and presses as indicated next to this text to release the implant. Always ensure that the sterility of the implant, which is located in the inner blister, is maintained.



Implant packaging and release process.

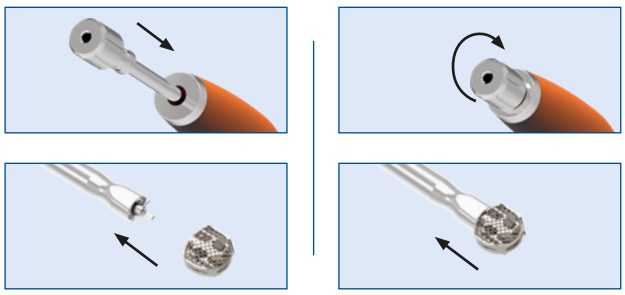


Implant Preparation

Capraia-Z ACIF Bone Ingrowth fusion cages may be filled with a bone substitute. This should be delivered in paste/putty-like form. Please use the Tsunami Filling System in order to secure appropriate filling. The implant can be filled before or after the implantation procedure. Insert the Implant holder shaft (**BOK-CSZ-02**) into the implant holder (**BOK CSZ-01**).

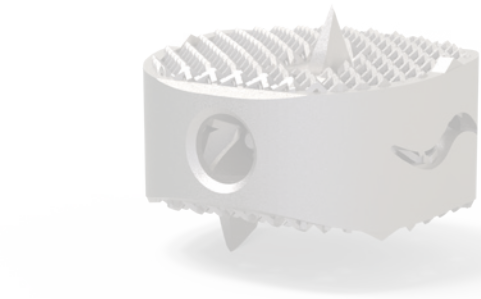
BOK-CSZ-01 &
BOK-CSZ-02 & BOK-CSZ-03

Connect the Implant Holder shaft to the Cage and secure the position by turning the knob clockwise on the silicone handle. Double check if the UP sign corresponds with the upper side of the cage.



1. Insert the Holder Shaft.

2. Screw the knob to lock the cage.



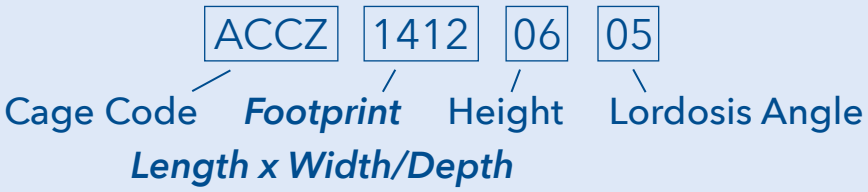
The correct implant size is the one that corresponds with the footprint and height of the appropriate implant trial (**BOK-CS-0*0*W***), such determined after evaluation of fluoroscopy imaging: Lateral X-Ray for Height and Depth, Width based on visual evaluation.

Example

Cage Height > Probe height: 6mm

Cage Footprint > 14x12 mm

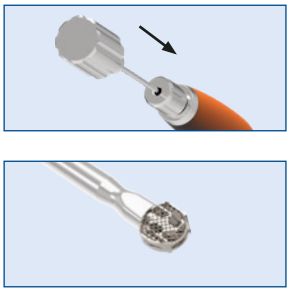
Cage Angle > Lordosis angle: 5°



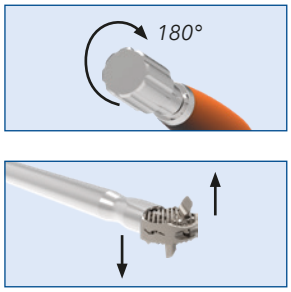
Cage Implantation

Implant the cage. A Lateral X-ray during the procedures is highly recommended to control the final (height/depth) position of the implant before releasing distraction and extending the pins.

An AP X-ray is recommended to control the final center position.



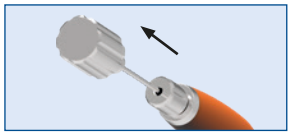
3. Insert the Pins Expansion Shaft.



4. Screw the knob to expand the pins.

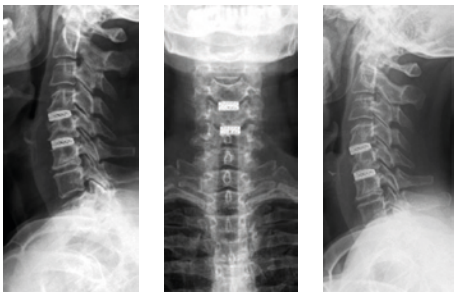
Only after the final position of the cage has been reached, insert the pins expansion shaft (**BOK-CSZ-03**) **into the implant holder.** Make sure the distal tip of the expansion shaft grabs inside the cage (:gently, using only thumb and index finger) and then turn the expansion shaft 180 ° clockwise till resistance is being felt; the pins are now fully extended (you may consider an X-ray to confirm). Turning the expansion shaft beyond 180° (experiencing a severe resistance during), may damage the cage, the expansion shaft or both. When needed, for example when you would like to amend the final implant position, pins can be distracted (back into the implant) by turning the pins expansion shaft (**BOK- CSZ-03**) 180° counterclockwise, after which above procedure can be repeated. Proper extension of the pins can be seen both in Lateral and AP X-rays.

Once the implant is in its final position and pins are extended **FIRST take out the pins expansion shaft**, before releasing the implant holder from the cage.

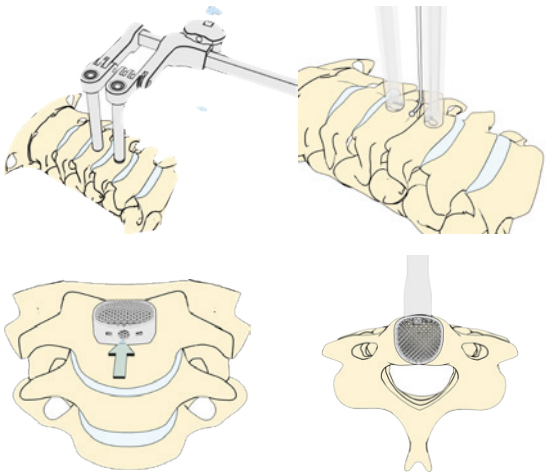


Cage Fixation

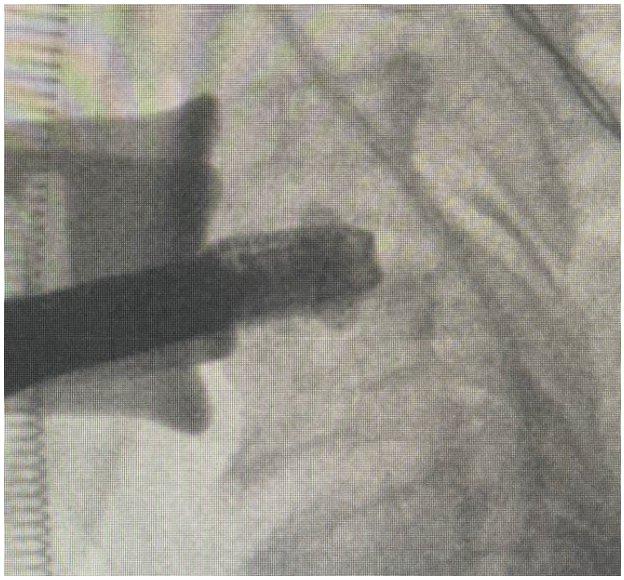
After final positioning has been confirmed detach the Implant Holder by turning the Implant holder shaft (**BOK-CSZ-02**) counterclockwise. Remove the Implant Holder and check again the implant positioning with X-rays, both in AP and Lateral direction.



X-rays of Capraia cage, 3 months post implantation.

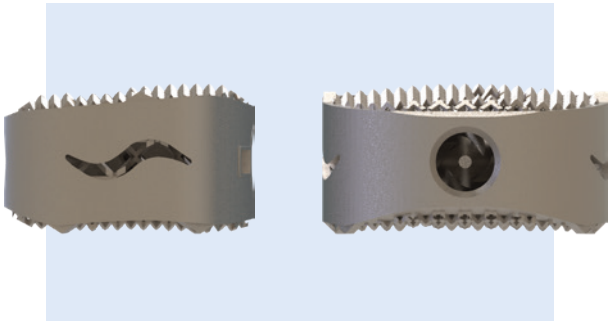


Cage implantation procedure illustrated.

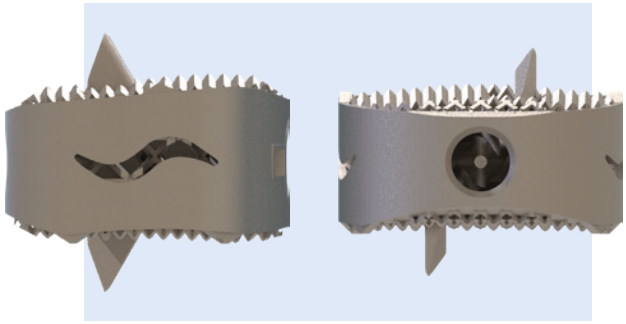


X-rays of Capraia-Z during implantation.

PINS IN



PINS OUT



INSTRUCTIONS FOR USE

AANTERIOR CAGE FOR CERVICAL ARTHRODESIS IMPORTANT INFORMATION ABOUT THE ANTERIOR CAGE FOR CERVICAL ARTHRODESIS

The ACC/ACCK/ACCZ Spinal System is intended to recreate and maintain distance between vertebras to support biologic fusion in the cervical spine. Can be used independently up to two levels or used with additional fixation device whatever appropriate.

DESCRIPTION

The ACC/ACCK/ACCZ Spinal System consists of cages in variable sizes and shapes. The dimensions of implants are designed based on anatomical conditions and decisions hereto are made by physicians.

ACC/ACCK/ACCZ Spinal System can be used as a single implant option ("stand-alone") up to two levels, or with other spinal or other fixation systems in order to achieve better stabilization, according to the physician's indication only.

Any application of any of the components from the ACC/ACCK/ACCZ Spinal System in combination with any other systems or other manufactures releases Tsunami Medical from any liability. Do not use titanium implant systems in combination with steel implant systems.

All components of ACC/ACCK/ACCZ Spinal System cannot be reused under any circumstances.

ACC/ACCK/ACCZ Spinal System is designed to be applied with anterior surgical approach only.

In particular, these instructions for use apply to the following code:

ACC/ACCK/ACCZ Arthrodesis Cervical Cage (ACCXXXXXXXX/ACCKXXXXXXXX/ ACCZXXXXXXXX).

MATERIALS

The entire system is made of medical grade titanium described by ISO 5832-3 or 10993-5 or ASTM F2026 or ASTM F136 standards. Tsunami Medical warrants that all devices are manufactured from one of the foregoing material specifications. Please see the Tsunami Medical product brochure for further information.

INDICATIONS

ACC/ACCK/ACCZ Spinal System is intended for cervical interbody fixation for the following indications:

(1) Degenerative disc disease.
(2) Spinal stenosis.
(3) Revision surgery for failed disc surgery or progressive degenerative discopathies.
(4) Foraminal stenosis or nerve compression.
(5) Tumour.
(6) Pseudo-arthrosis.
(7) Instability of motion segments.

CONTRAINDICATIONS

Contraindications include, but are not limited to:

(1) Risk of infection or infection in progress, or fever or inflammation.
(2) Obesity.
(3) Pregnancy.
(4) Mental illness.
(5) Allergy on any system components.
(6) Any anatomical, medical or surgical conditions which may preclude potential or intentional benefits of spinal implants application.

POTENTIAL ADVERSE EVENTS

Possible adverse events which might occur after spinal surgery with or without instrumentation including, but are not limited to:

(1) Disassembly, bending, and/or breakage of any or all of the system's components.
(2) Migration of any of the system's components.
(3) Pressure on the skin from component parts in patients with inadequate tissue coverage.
(4) Tissue or nerve damage caused by

improper positioning and placement of implants or improper use of instruments.

(5) Dura leakage, distortion or damage.

(6) Neurologic dysfunctions and/or physiological dysfunctions like paresthesia, radiculopathy, paralysis, hypertension, or any others related to surgery in general associated to anesthesia.

(7) Infections.

(8) Loss of urinary functions.

(9) Permanent or temporary or developing sexual dysfunctions.

(10) Postoperative change of body curvature, change of physiological range of movement.

(11) Pseudo-arthrosis or non-fusion or delayed fusion.

(12) Bone loss or overgrowth, or any other bone malformations.

(13) Permanent or temporary limitation or inability to perform daily activities.

(14) Change in mental behavior.

(15) Permanent or temporary or developing respiratory problems.

(16) Permanent or temporary or developing cardiovascular deteriorations or dysfunctions.

(17) Death.

In some cases, additional surgery or surgeries might be necessary to correct or change potential adverse events.

WARNINGS

The effectiveness and safety of interbody fixation is only applicable for certain conditions with significant instability, which require fusion supported by a medical device. Correct placement and appropriate size selection are crucial to achieve optimal results. The device might be supportive for mechanical instability such as – but not limited to - deformity, fracture, listhesis, dislocation, tumor, pseudoarthrosis. The effectiveness and safety for any other conditions are unknown.

PRECAUTIONS

The ACC/ACCK/ACCZ Spinal cage, may be supported by an additional fixation device. In some cases additional fixation is highly recommended. The applications of pedicle screws, cervical screws and/or interbody cages should be performed by experienced surgeons with specific training when using the ACC/ACCK/ACCZ Spinal System.

The spinal screw fixation system and/or inter body cage system should not be considered as sole spinal support. No implants can withstand body loads without bone support. Therefore bends, breakages, loosening, disassembling may occur over the time. A successful result is not always achievable. The factors as proper preoperative and operative procedure, comprehensive knowledge of surgical techniques, proper selection of implant's size and type are considerably important in the overall treatment process. Patients with obesity, smokers and alcoholics are at risk for non-fusion. Also, patients with weak muscle or bone conditions and/or nervous system dysfunctions are poor candidates for spinal fusion. Prior or during or after the surgery to evaluate or check the positioning of the implants or patient's anatomy or implant correction, X-ray or CT or any other diagnostic examinations may be necessary.

The proper, patient's individual implant selection in terms of type, size, shape, or design is vital to successful surgery performance. Proper implants and instruments' handling are crucial. Extensive bending or contouring should be avoided. Sharp cutting edges, reversed bending, scratching, or notching may generate internal stress, which may weak the implants or construct.

IMPORTANT: All necessary information about surgery, potential risks, benefits, and adverse effects should be conveyed to the patient prior to surgery.

MAGNETIC RESONANCE ENVIRONMENT

The ACC/ACCK/ACCZ Anterior Cage for Cervical Arthrodesis has not been evaluated for safety and compatibility in the Magnetic Resonance environment. The ACC/ACCK/ACCZ Anterior Cage for Cervical Arthrodesis has not been tested for heating or migration in the Magnetic Resonance environment.

PRE-OPERATIVE

(1) Patients that meet the criteria described in the indications should only be selected.

(2) Patients' conditions should be checked prior to surgery; any required diagnostics should be performed.

(3) The efficient and adequate implants and instruments inventory must be secured and be available during the surgery.

(4) All implants, instruments and any other components should be cleaned and sterilised before use. Any implants, instruments or components delivered in sterile packaging must be checked on sterility and expiration date of sterility prior surgery.

(5) Implants and instruments should be stored in certain conditions to warrant the sterility and protection from any contamination or corrosive environment.

(6) It's highly recommended that all personnel interacting with any mechanical components of the spinal system should be familiar with all components before use.

INTRA-OPERATIVE

(1) Extreme caution should be taken when working close to or around the spinal cord and nerve roots.

(2) Whenever possible or required, intra-operative diagnostic systems should be used to facilitate surgery.

(3) Breakage, bends, scratch, slippage, part loosening or improper use of any implant or instrument during the surgery may cause injury to OR personal or patient.

(4) It's very important to follow the surgical technique carefully. Proper application of any instrument or implant may facilitate surgery.

(5) Before closing of soft tissue, double check of all implants' positioning, geometrical relations, and fixing, tightening or mounting maneuvers for all screws, nuts or other fixing parts have been performed. Image diagnostics is highly recommended at this stage.

(6) When trialing is performed, lateral x-ray is highly recommended to asset implants' height, angulation, and footprint size. Implant Trials should be inserted in the mid-line. Release the distraction and check if the Implant Trial fits firmly between the endplates of the superior and inferior vertebral bodies. Once the appropriate size is selected, please follow the implant preparation in accordance with the marks on the Implant Trial.

POST-OPERATIVE

The physician's post-operative directions and warnings to the patient, and the corresponding patient's compliance, are extremely important.

(1) Detailed instructions about the use and limitations of the device should be communicated with the patient.

(2) The patient should be warned to avoid falls or sudden jolts in spinal position.

(3) The patient should be warned for this possibility and instructed to limit and restrict physical activities, especially lifting and twisting movements and any type of sports participation. The patient should be advised not to smoke, or to consume alcohol or non-steroids or use anti-inflammatory medications such as aspirin during the bone graft healing.

(4) As a precaution, before patients with implants receive any subsequent surgery (such as surgical dental procedures), prophylactic antibiotics may be considered, especially for high-risk patients.

(5) Any retrieved implants should be treated

in such a manner that reuse in another surgical procedure is not possible. As with all orthopaedic implants, the the ACC/ACCK/ACCZ Spinal System components should never be reused under any circumstances.

PACKAGING

ACC/ACCK/ACCZ Spinal System is sterile packaged; to control the correct sterilization, make sure that the package arrives properly closed.
Do not use if the blister is open or damaged.

STORAGE

The implant components of the ACC/ACCK/ ACCZ Spinal System should be completely dry before storing and must be handled with care to prevent damage. Store in designated trays and in areas which provide protection from dust, insects, chemical vapours and extreme changes in temperature and humidity. Sterile parts must be stored in original packages as a precaution for prevented to any damages.

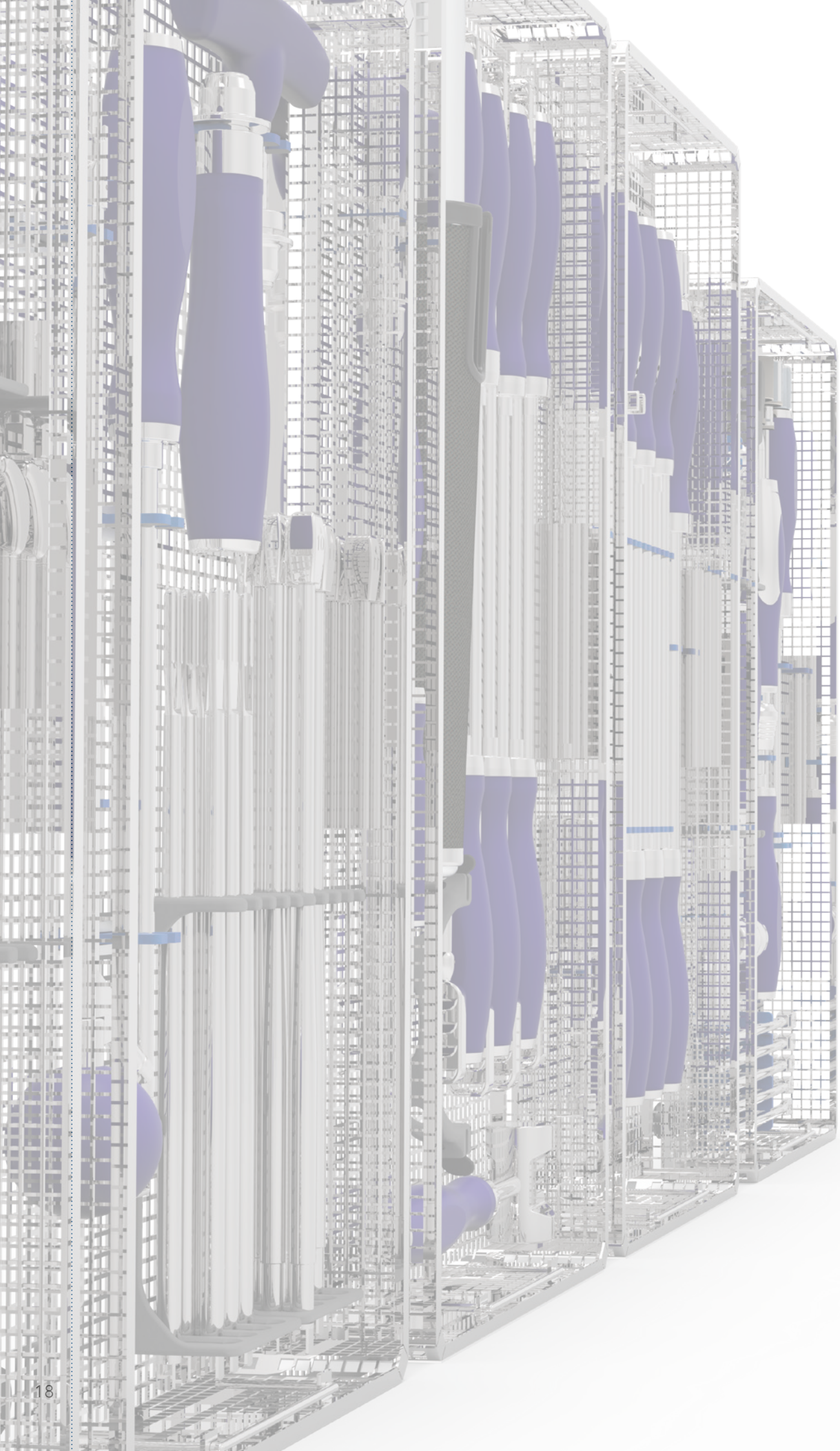
WARRANTY AND PRODUCT COMPLAINTS

Every spinal product from Tsunami Medical is guaranteed to be free of defects in handling and materials when used properly for its intended purpose. Any implant or instrument delivered from Tsunami Medical proving to be defective after proper use following the instructions provided and used for its intended purpose will be replaced or repaired, at Tsunami discretion, without charge. Any customer or user, who has any complaint or who has experienced any dissatisfaction in the product quality, durability, safety, or reliability should inform Tsunami Medical or its dedicated Distributor in the customer's territory. When filing a complaint, please provide the component(s) name, part number, lot number(s), your name and address and a detailed description of the complaint. Please provide the report directly to Tsunami Medical or to its dedicated Distributor.

CUSTOMER SERVICE

Additional information about the ACC/ACCK/ ACCZ Spinal System or any other Tsunami Medical's Spinal System is available from Tsunami Medical. You may also contact your local Tsunami Sales Representative.

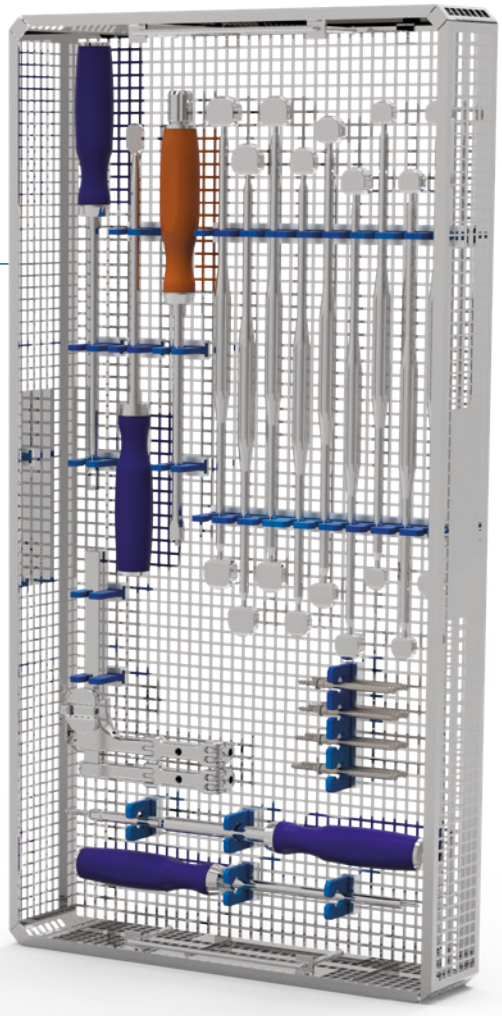
For more informations on our products



TSUNAMI MEDICAL

THE WAVE OF INNOVATION

ACIF
Surgery Set **Full Din**



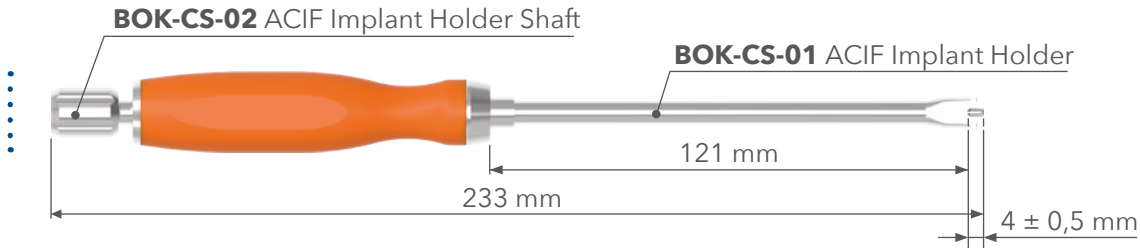
ACIF
Surgery Set **Full Din**

• *First Generation*

ACIF *Implant Holder*

Instrument Ref. Codes: **BOK-CS-01**

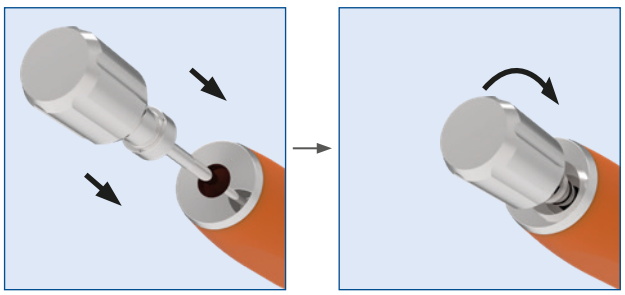
BOK-CS-02



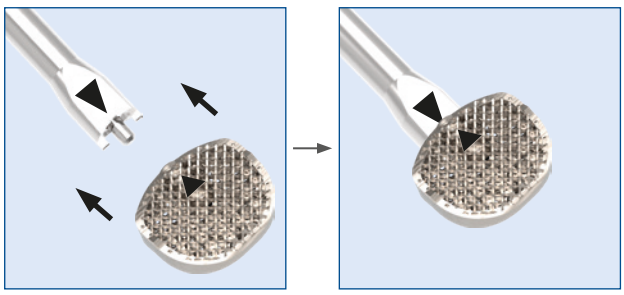
Components:

1	 **BOK-CS-02**	2	 **BOK-CS-01**

Assembly Scheme:



Insert the Shaft in the Holder and screw the knob.



Connect the Cage to the coupling.

ACIF *Implant Holder (Dismantable)*	
BOK-CS-01	ACIF Implant Holder
BOK-CS-02	ACIF Implant Holder Shaft

**Dimensional tolerance ± 2 mm

CE

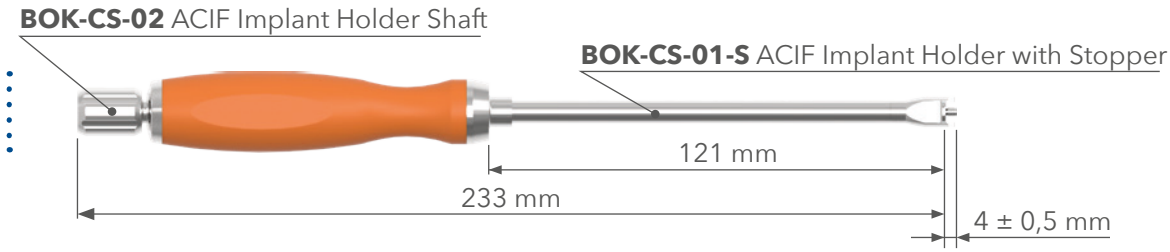
ACIF
Surgery Set **Full Din**

• *First Generation*

***ACIF** Implant Holder with Stopper*

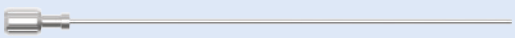
Instrument Ref. Codes: **BOK-CS-01-S**

BOK-CS-02



Components:

1

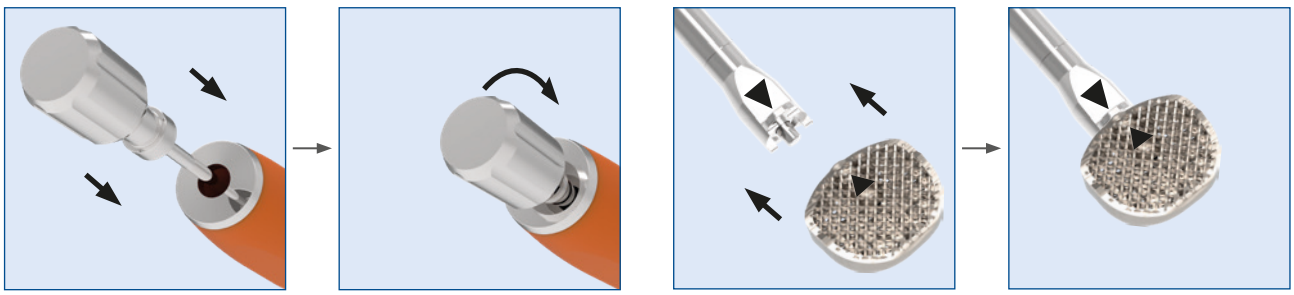


BOK-CS-02

2

BOK-CS-01-S

Assembly Scheme:



Insert the Shaft in the Holder and screw the knob.

Connect the Cage to the coupling.

***ACIF** Implant Holder With Stopper*	
BOK-CS-01-S	ACIF Implant Holder with Stopper
BOK-CS-02	ACIF Implant Holder Shaft

**Dimensional tolerance ± 2 mm

CE

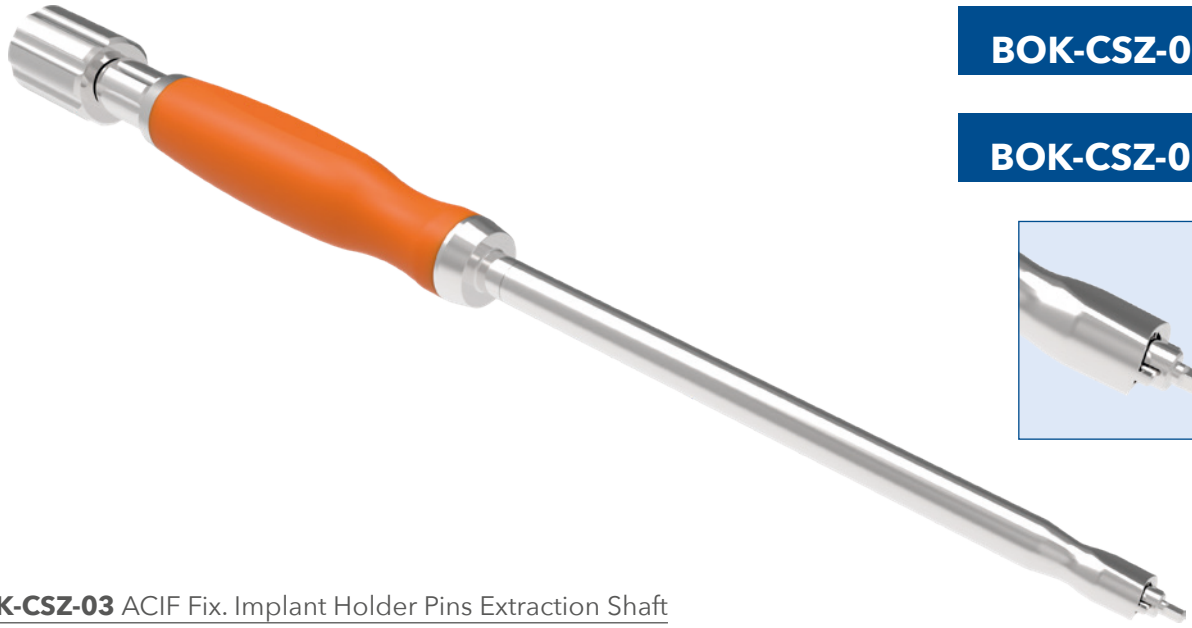
ACIF
Surgery Set **Full Din**

• *Built-In Fixation*

***ACIF** Fix. Implant Holder* Instrument Ref. Codes: **BOK-CSZ-01**

BOK-CSZ-02

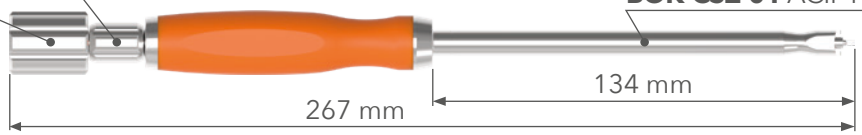
BOK-CSZ-03



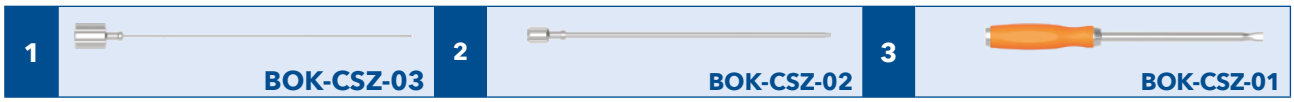
BOK-CSZ-03 ACIF Fix. Implant Holder Pins Extraction Shaft

BOK-CSZ-02 ACIF Fix. Implant Holder Shaft

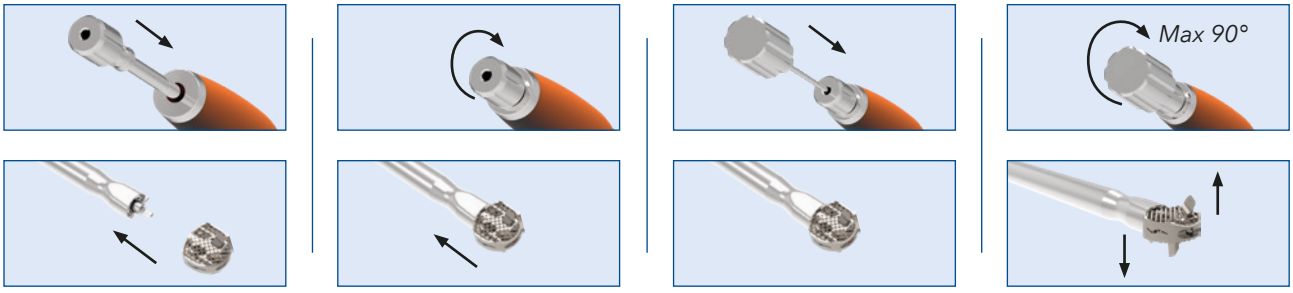
BOK-CSZ-01 ACIF Fix. Implant Holder



Components:



Usage Scheme:



1. Insert the Holder Shaft.

2. Screw the knob to lock the cage.

3. Insert the Pins Expansion Shaft.

4. Screw the knob to expand the pins.

***ACIF** Fix. Implant Holder*	
BOK-CSZ-01	ACIF Fix. Implant Holder
BOK-CSZ-02	ACIF Fix. Implant Holder Shaft
BOK-CSZ-03	ACIF Fix. Implant Holder Pins Extraction Shaft

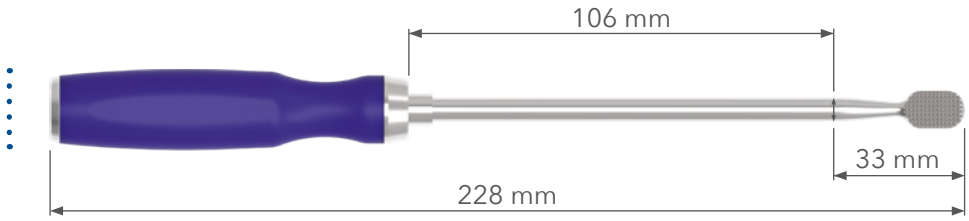
CE

**Dimensional tolerance ± 2 mm

ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

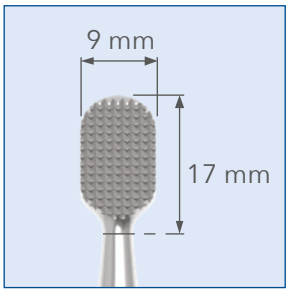
***ACIF** Rasp* Instrument Ref. Code: **BOK-CS-03**

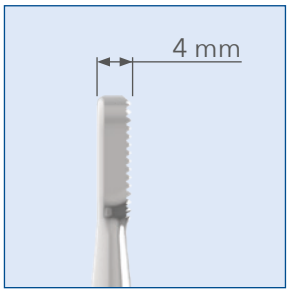


Components:

1	

Dimensions:





***ACIF** Rasp*
BOK-CS-03

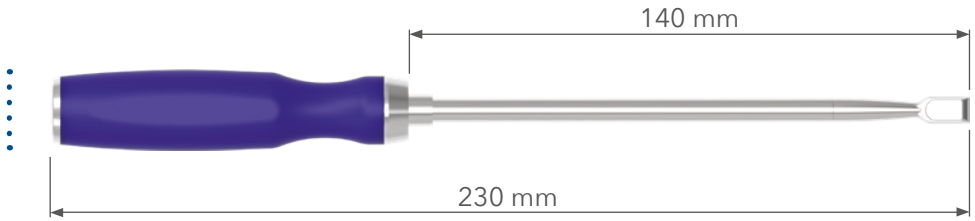
**Dimensional tolerance ± 2 mm

CE

ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

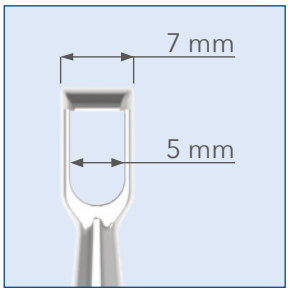
***ACIF** One Side Squared Curette* Instrument Ref. Code: **BOK-CS-04**

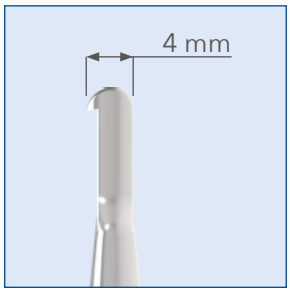


Components:

1

Dimensions:





***ACIF** One Side Squared Curette*
BOK-CS-04

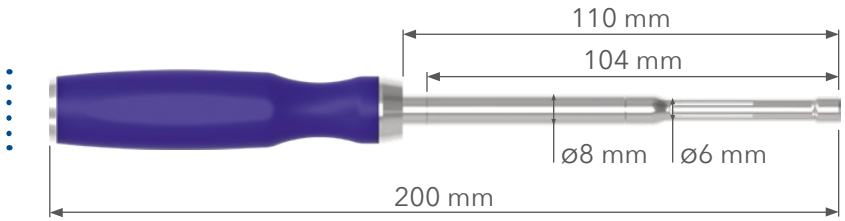
**Dimensional tolerance ± 2 mm

CE

ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

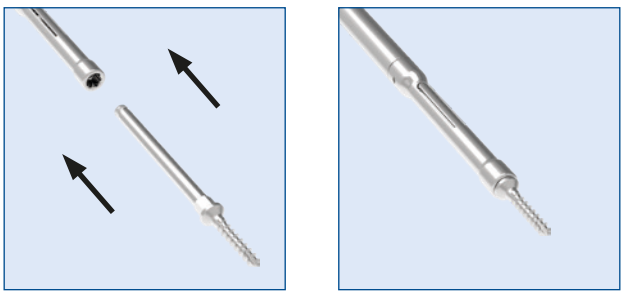
Distraction Screwdriver Instrument Ref. Code: **BOK-CS-05**



Components:

1	

Assembly Scheme:



Insert the Screw in the Holder.

Distraction Screwdriver
BOK-CS-05

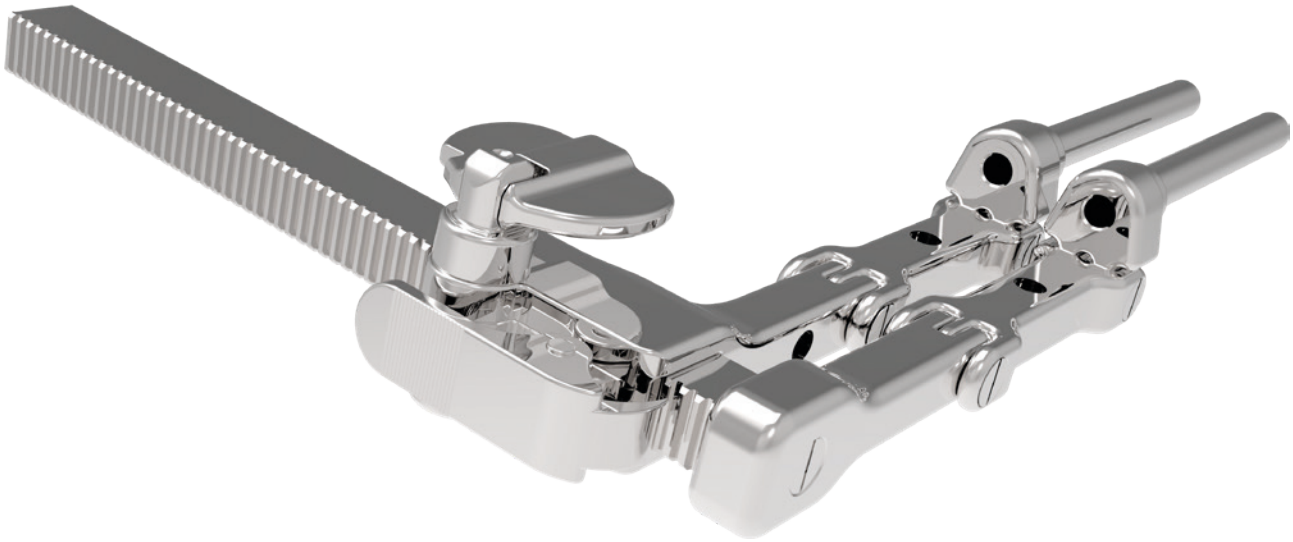
**Dimensional tolerance ± 2 mm

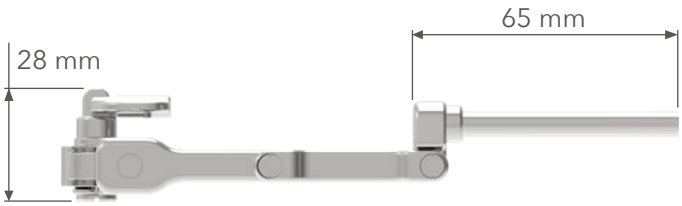
CE

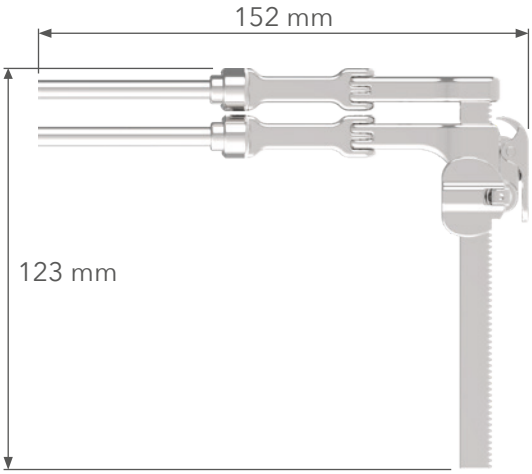
ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

Caspar Distractor Left Instrument Ref. Code: **BOK-CS-07 L**



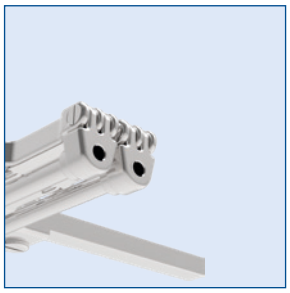
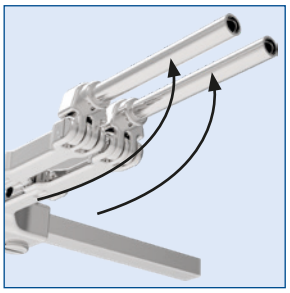
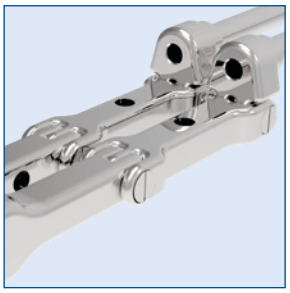
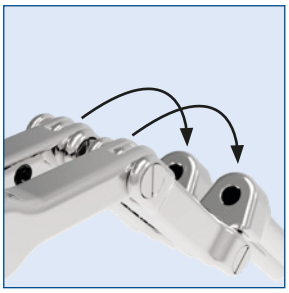




Components:

1	

Features of use:

Caspar Distractor Left
BOK-CS-07 L

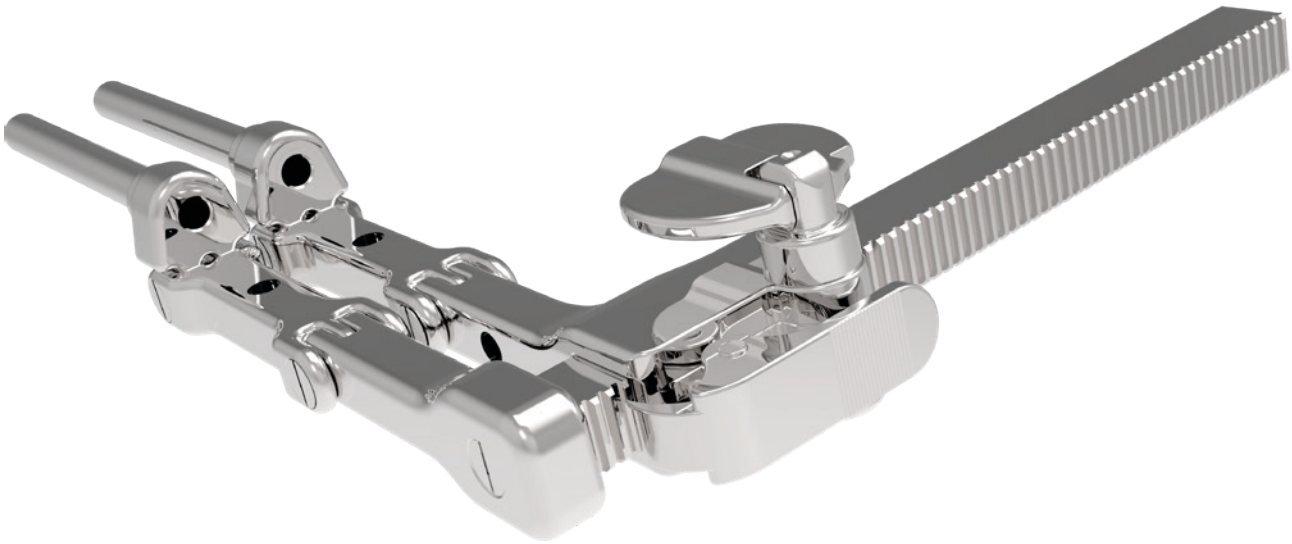
**Dimensional tolerance ± 2 mm

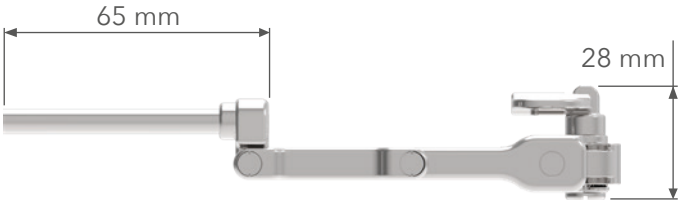
CE

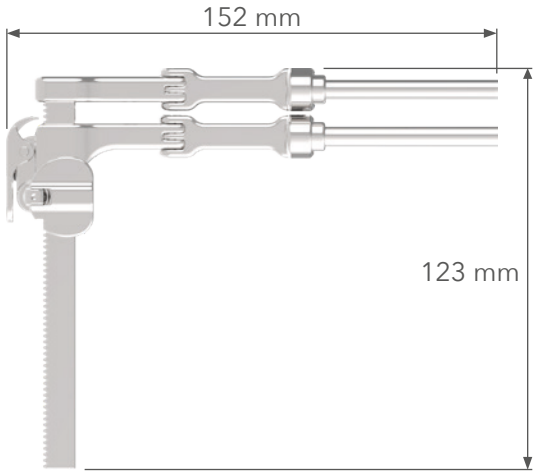
ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

Caspar Distractor Right Instrument Ref. Code: **BOK-CS-07 R**



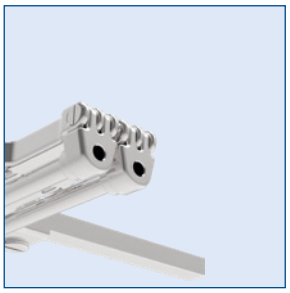


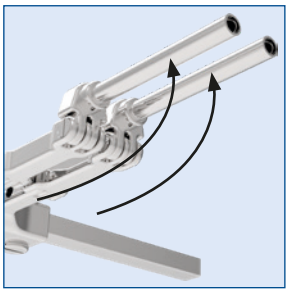


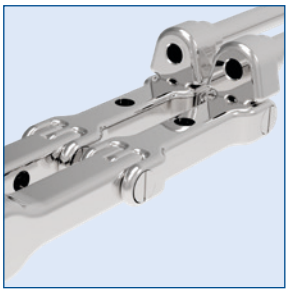
Components:

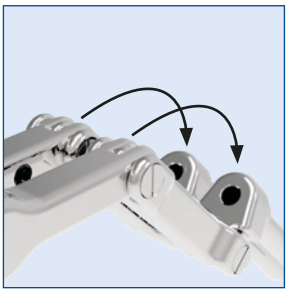
1	

Features of use:









Caspar Distractor Right
BOK-CS-07 R

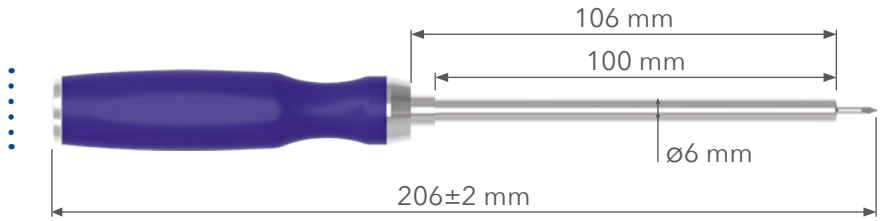
**Dimensional tolerance ± 2 mm

CE

ACIF
Surgery Set **Full Din**

- *First Generation*
- *Built-In Fixation*

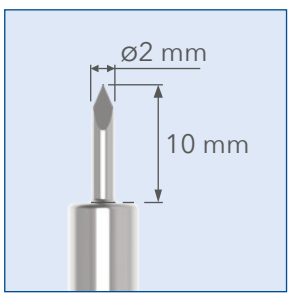
Vertebral Body Perforator Instrument Ref. Code: **BOK-CS-08**



Components:

1	

Dimensions:



Vertebral Body Perforator
BOK-CS-08

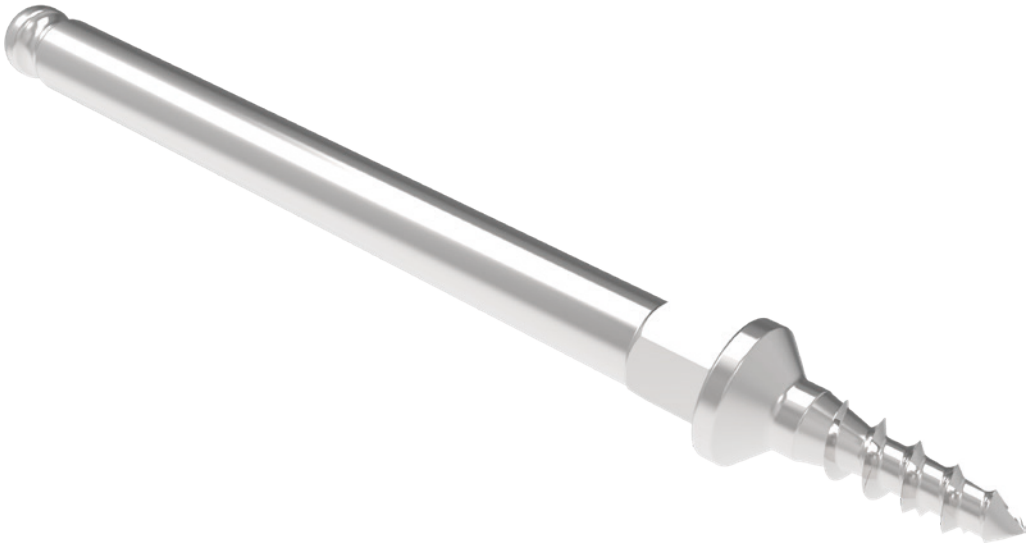
**Dimensional tolerance ± 2 mm

CE

ACIF
Surgery Set **Full Din**

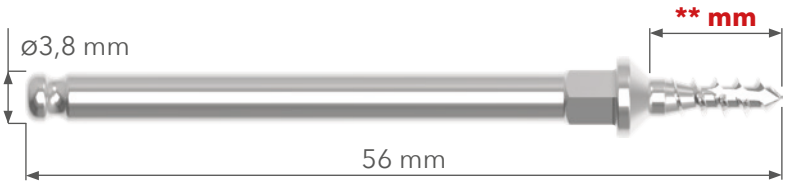
- *First Generation*
- *Built-In Fixation*

Distraction Screw Instrument Ref. Code: **BOK-CS-****



** Choose preferred height and use it instead of the asterisks to get the final reference.

Details



Description	Code
Distraction Screw ***10 mm***	**BOK-CS-10**
Distraction Screw ***12 mm***	**BOK-CS-12**
Distraction Screw ***14 mm***	**BOK-CS-14**
Distraction Screw ***16 mm***	**BOK-CS-16**

**Dimensional tolerance ± 2 mm

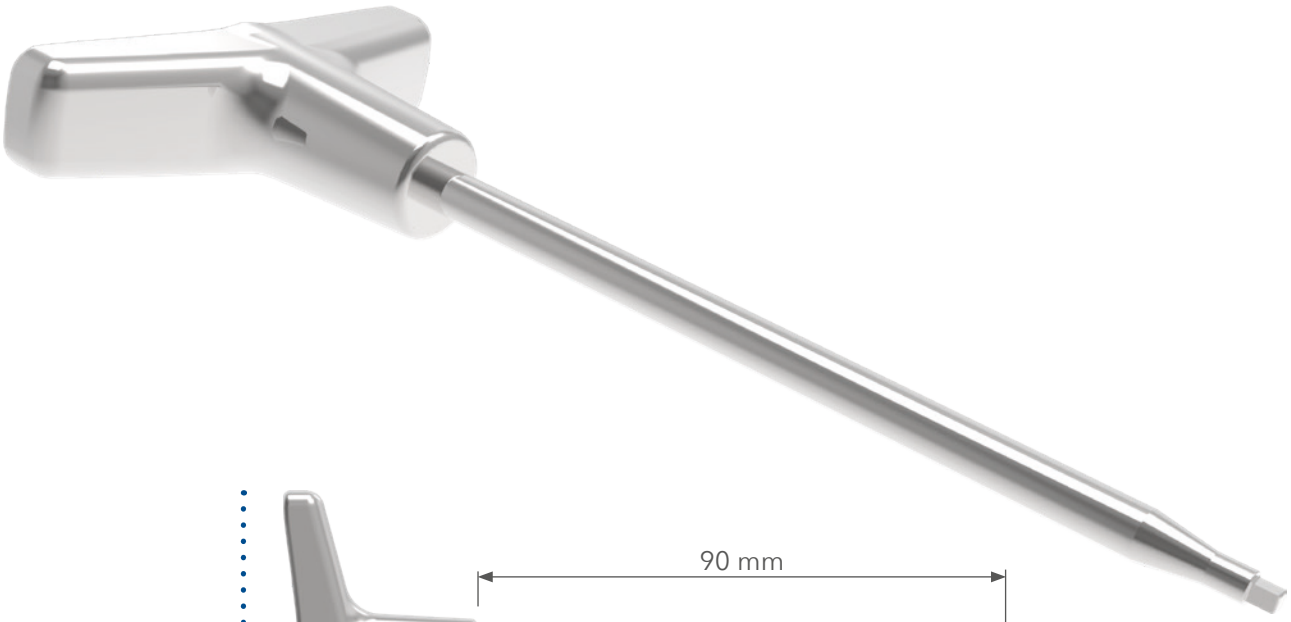
CE

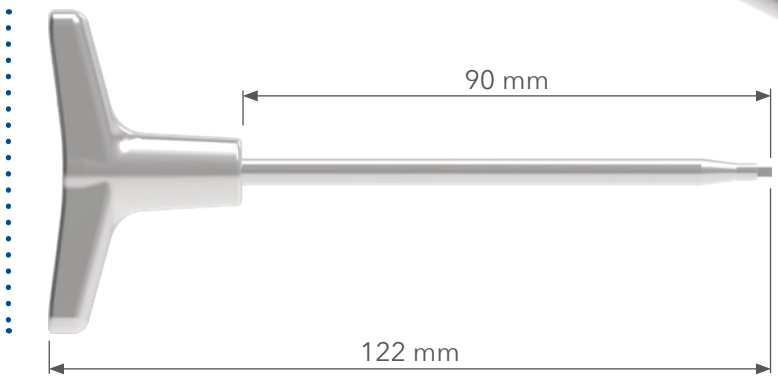
ACIF
Surgery Set **Full Din**

• *Built-In Fixation*

***ACIF** Fix. Reinforce Pin Extractor Shaft*

Instrument Ref. Code: **BOK-CSZ-06**

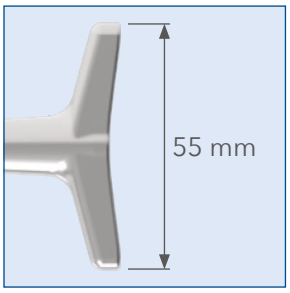


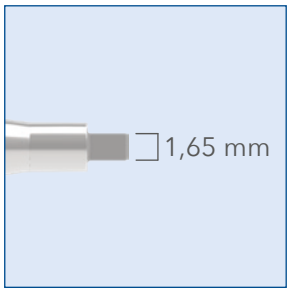


Components:

1

Dimensions:





***ACIF** Fix. Reinforce Pin Extractor Shaft*
BOK-CSZ-06

**Dimensional tolerance ± 2 mm

CE

ACIF
Surgery Set **Full Din**

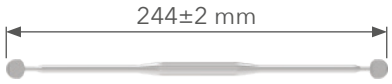
- *First Generation*
- *Built-In Fixation*

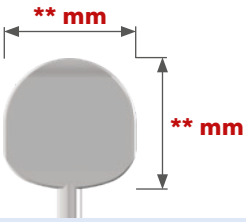
ACIF** Implant Trial* Instrument Ref. Code: **BOK-CS-0*0*

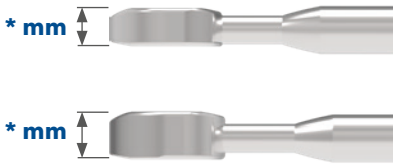
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
ACIF Implant Trial ***4-5 mm*** *Small* ***(12mmx12mm)***	**BOK-CS-0405S**
ACIF Implant Trial ***4-5 mm*** *Medium* ***(14mmx14mm)***	**BOK-CS-0405M**
ACIF Implant Trial ***4-5 mm*** *Large* ***(16mmx16mm)***	**BOK-CS-0405L**
ACIF Implant Trial ***6-7 mm*** *Small* ***(12mmx12mm)***	**BOK-CS-0607S**
ACIF Implant Trial ***6-7 mm*** *Medium* ***(14mmx14mm)***	**BOK-CS-0607M**
ACIF Implant Trial ***6-7 mm*** *Large* ***(16xmm16mm)***	**BOK-CS-0607L**
ACIF Implant Trial ***8-9 mm*** *Small* ***(12mmx12mm)***	**BOK-CS-0809S**
ACIF Implant Trial ***8-9 mm*** *Medium* ***(14mmx14mm)***	**BOK-CS-0809M**
ACIF Implant Trial ***8-9 mm*** *Large* ***(16mmx16mm)***	**BOK-CS-0809L**

ACIF
Surgery Set **Full Din**

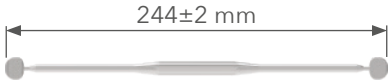
- *First Generation*
- *Built-In Fixation*

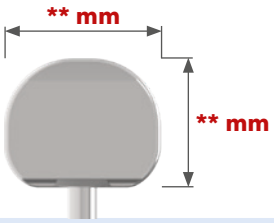
ACIF** Wide Implant Trial* Instrument Ref. Code: **BOK-CS-0*0*W

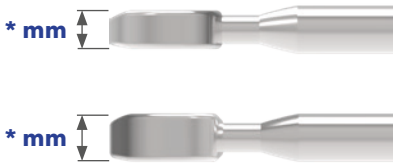
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
ACIF Wide Implant Trial ***4-5 mm*** *Small* ***(12mmx14mm)***	**BOK-CS-0405WS**
ACIF Wide Implant Trial ***4-5 mm*** *Medium* ***(14mmx16mm)***	**BOK-CS-0405WM**
ACIF Wide Implant Trial ***4-5 mm*** *Large* ***(16mmx18mm)***	**BOK-CS-0405WL**
ACIF Wide Implant Trial ***6-7 mm*** *Small* ***(12mmx14mm)***	**BOK-CS-0607WS**
ACIF Wide Implant Trial ***6-7 mm*** *Medium* ***(14mmx16mm)***	**BOK-CS-0607WM**
ACIF Wide Implant Trial ***6-7 mm*** *Large* ***(16mmx18mm)***	**BOK-CS-0607WL**
ACIF Wide Implant Trial ***8-9 mm*** *Small* ***(12mmx14mm)***	**BOK-CS-0809WS**
ACIF Wide Implant Trial ***8-9 mm*** *Medium* ***(14mmx16mm)***	**BOK-CS-0809WM**
ACIF Wide Implant Trial ***8-9 mm*** *Large* ***(16mmx18mm)***	**BOK-CS-0809WL**

ACIF
Surgery Set **Full Din**

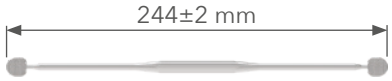
• *First Generation*

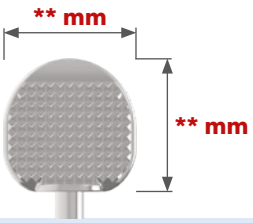
ACIF** Implant Trial Rasp* Instrument Ref. Code: **BOK-CS-R0*0*

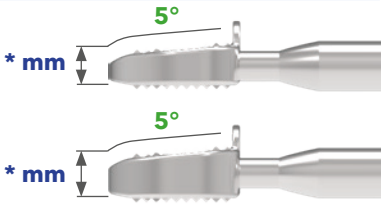
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
ACIF Implant Trial Rasp ***4-5 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CS-R0405S**
ACIF Implant Trial Rasp ***4-5 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CS-R0405M**
ACIF Implant Trial Rasp ***4-5 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CS-R0405L**
ACIF Implant Trial Rasp ***6-7 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CS-R0607S**
ACIF Implant Trial Rasp ***6-7 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CS-R0607M**
ACIF Implant Trial Rasp ***6-7 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CS-R0607L**
ACIF Implant Trial Rasp ***8-9 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CS-R0809S**
ACIF Implant Trial Rasp ***8-9 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CS-R0809M**
ACIF Implant Trial Rasp ***8-9 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CS-R0809L**

ACIF
Surgery Set **Full Din**

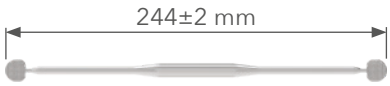
• *First Generation*

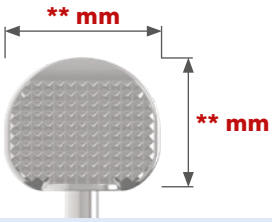
ACIF** Wide Implant Trial Rasp* Instrument Ref. Code: **BOK-CS-R0*0*W

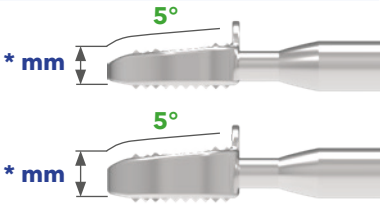
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
ACIF Wide Implant Trial Rasp ***4-5 mm*** *Small* ***(12mmx14mm)*** *-* ***5°***	**BOK-CS-R0405WS05**
ACIF Wide Implant Trial Rasp ***4-5 mm*** *Medium* ***(14mmx16mm)*** *-* ***5°***	**BOK-CS-R0405WM05**
ACIF Wide Implant Trial Rasp ***4-5 mm*** *Large* ***(16mmx18mm)*** *-* ***5°***	**BOK-CS-R0405WL05**
ACIF Wide Implant Trial Rasp ***6-7 mm*** *Small* ***(12mmx14mm)*** *-* ***5°***	**BOK-CS-R0607WS05**
ACIF Wide Implant Trial Rasp ***6-7 mm*** *Medium* ***(14mmx16mm)*** *-* ***5°***	**BOK-CS-R0607WM05**
ACIF Wide Implant Trial Rasp ***6-7 mm*** *Large* ***(16mmx18mm)*** *-* ***5°***	**BOK-CS-R0607WL05**
ACIF Wide Implant Trial Rasp ***8-9 mm*** *Small* ***(12mmx14mm)*** *-* ***5°***	**BOK-CS-R0809WS05**
ACIF Wide Implant Trial Rasp ***8-9 mm*** *Medium* ***(14mmx16mm)*** *-* ***5°***	**BOK-CS-R0809WM05**
ACIF Wide Implant Trial Rasp ***8-9 mm*** *Large* ***(16mmx18mm)*** *-* ***5°***	**BOK-CS-R0809WL05**

ACIF
Surgery Set **Full Din**

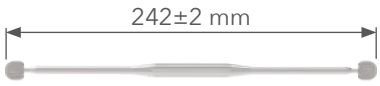
• *Built-In Fixation*

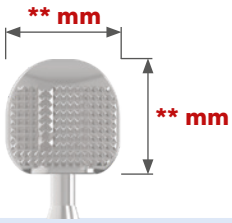
ACIF** Fix. Implant Trial Rasp* Instrument Ref. Code: **BOK-CSZ-R0*0*

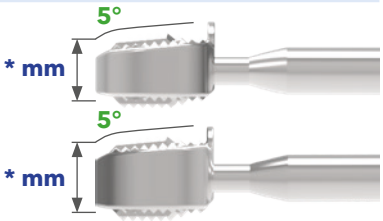
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
ACIF Fix. Implant Trial Rasp ***4-5 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CSZ-R0405S**
ACIF Fix. Implant Trial Rasp ***4-5 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CSZ-R0405M**
ACIF Fix. Implant Trial Rasp ***4-5 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CSZ-R0405L**
ACIF Fix. Implant Trial Rasp ***6-7 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CSZ-R0607S**
ACIF Fix. Implant Trial Rasp ***6-7 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CSZ-R0607M**
ACIF Fix. Implant Trial Rasp ***6-7 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CSZ-R0607L**
ACIF Fix. Implant Trial Rasp ***8-9 mm*** *Small* ***(12mmx12mm)*** *-* ***5°***	**BOK-CSZ-R0809S**
ACIF Fix. Implant Trial Rasp ***8-9 mm*** *Medium* ***(14mmx14mm)*** *-* ***5°***	**BOK-CSZ-R0809M**
ACIF Fix. Implant Trial Rasp ***8-9 mm*** *Large* ***(16mmx16mm)*** *-* ***5°***	**BOK-CSZ-R0809L**

ACIF
Surgery Set **Full Din**

• *Built-In Fixation*

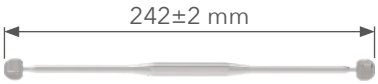
***ACIF** Fix. Wide Implant Trial Rasp*

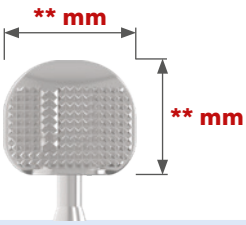
Instrument Ref. Code: **BOK-CSZ-R0*0*W***

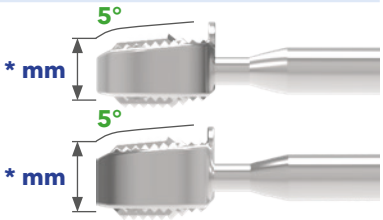
CE

** Choose preferred height and dimension and use them instead of the asterisks to get the final reference.

Details







Description	Code
*ACIF Fix. Wide Implant Trial Rasp **4-5 mm** Small **(12mmx14mm)** - **5°***	**BOK-CSZ-R0405WS**
*ACIF Fix. Wide Implant Trial Rasp **4-5 mm** Medium **(14mmx16mm)** - **5°***	**BOK-CSZ-R0405WM**
*ACIF Fix. Wide Implant Trial Rasp **4-5 mm** Large **(16mmx18mm)** - **5°***	**BOK-CSZ-R0405WL**
*ACIF Fix. Wide Implant Trial Rasp **6-7 mm** Small **(12mmx14mm)** - **5°***	**BOK-CSZ-R0607WS**
*ACIF Fix. Wide Implant Trial Rasp **6-7 mm** Medium **(14mmx16mm)** - **5°***	**BOK-CSZ-R0607WM**
*ACIF Fix. Wide Implant Trial Rasp **6-7 mm** Large **(16mmx18mm)** - **5°***	**BOK-CSZ-R0607WL**
*ACIF Fix. Wide Implant Trial Rasp **8-9 mm** Small **(12mmx14mm)** - **5°***	**BOK-CSZ-R0809WS**
*ACIF Fix. Wide Implant Trial Rasp **8-9 mm** Medium **(14mmx16mm)** - **5°***	**BOK-CSZ-R0809WM**
*ACIF Fix. Wide Implant Trial Rasp **8-9 mm** Large **(16mmx18mm)** - **5°***	**BOK-CSZ-R0809WL**

GENERAL
INSTRUMENTS

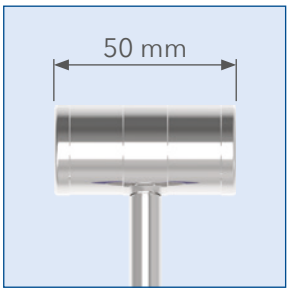
- *First Generation*
- *Built-In Fixation*
- *Expandable*

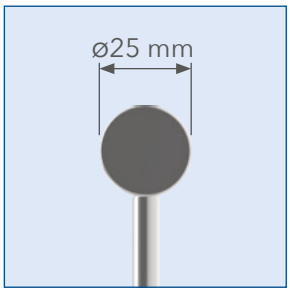
Hammer Instrument Ref. Code: **BOK-LC-59**

Components:

1

Dimensions:





Hammer
BOK-LC-59

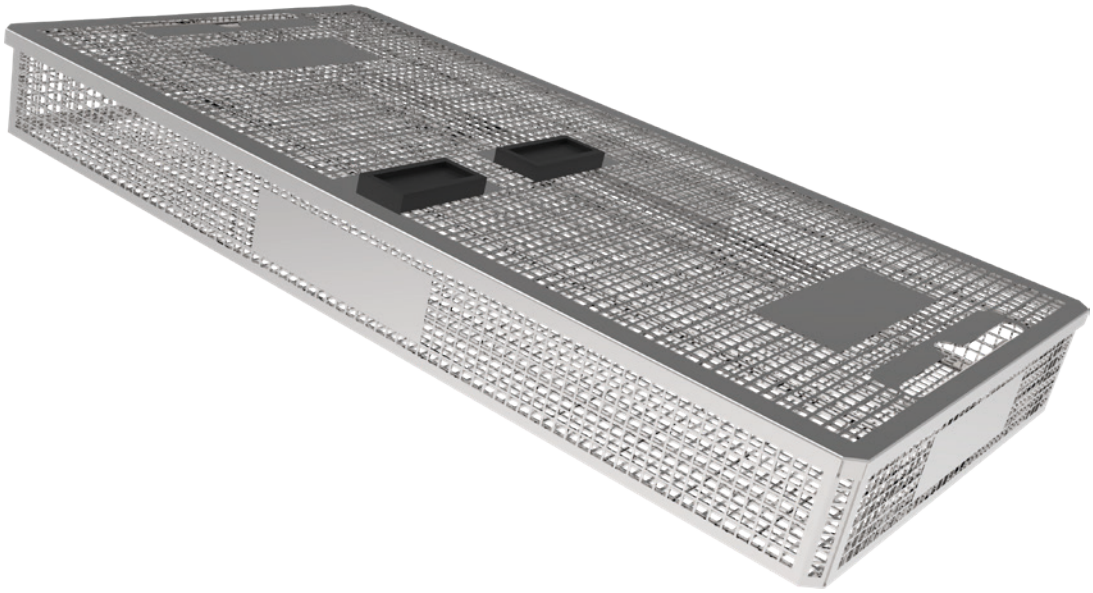
**Dimensional tolerance ± 2 mm

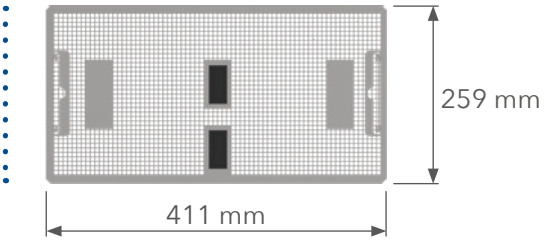
CE

GENERAL
INSTRUMENTS

- *First Generation*
- *Built-In Fixation*
- *Expandable*

Small Tray Instrument Ref. Code: **K3-729**

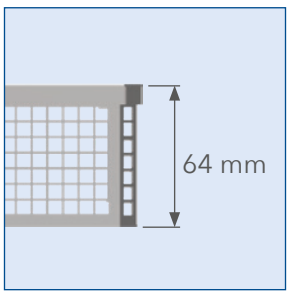




Components:

1	

Dimensions:



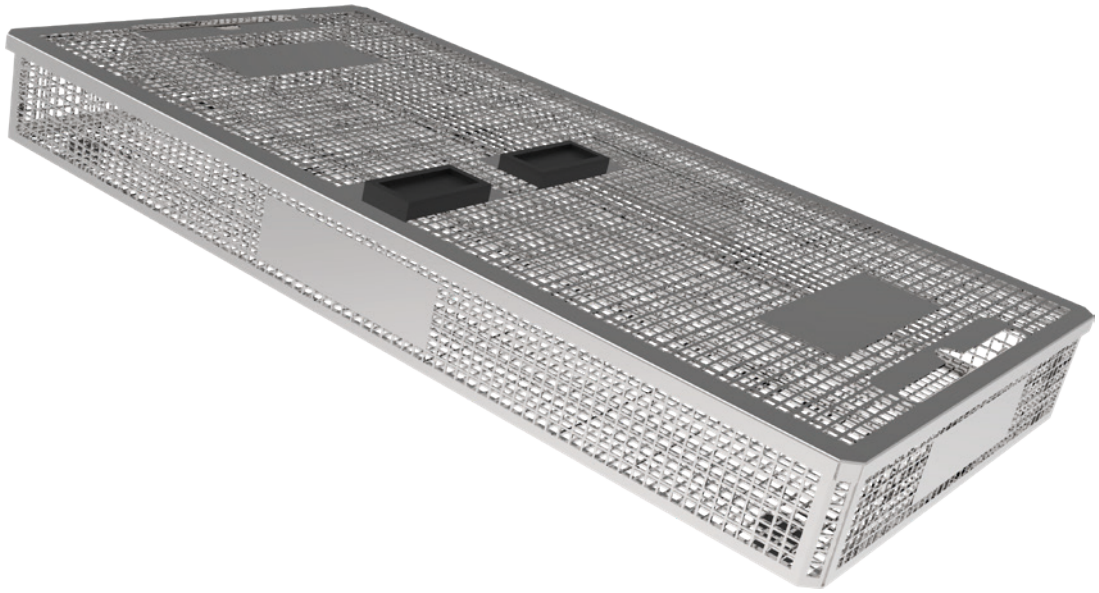
Small Tray
K3-729

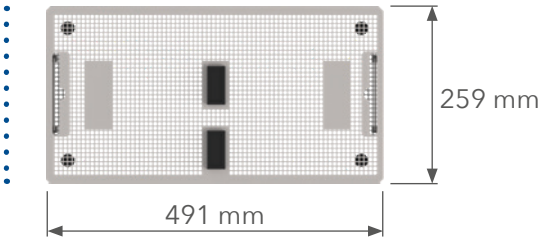
**Dimensional tolerance ± 2 mm

GENERAL
INSTRUMENTS

- *First Generation*
- *Built-In Fixation*
- *Expandable*

Medium Tray Instrument Ref. Code: **K3-725**

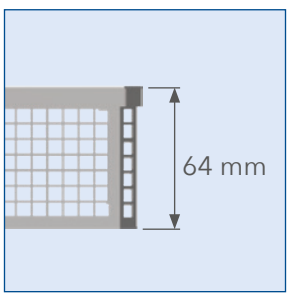




Components:

1

Dimensions:



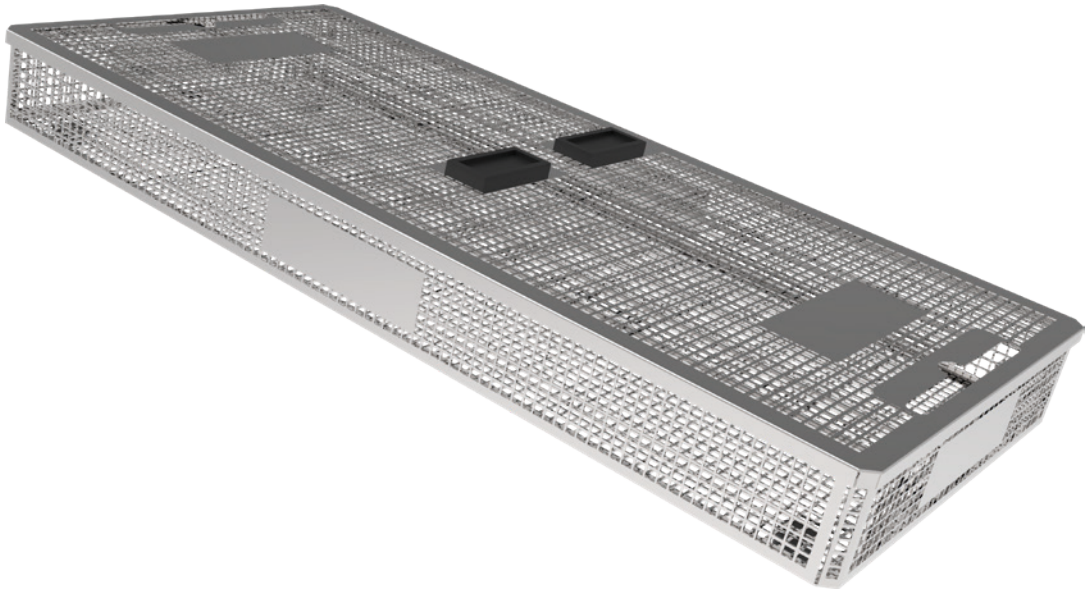
Medium Tray
K3-725

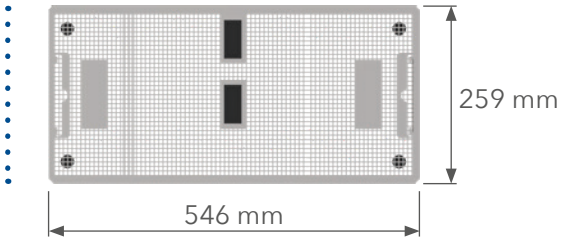
**Dimensional tolerance ± 2 mm

GENERAL
INSTRUMENTS

- *First Generation*
- *Built-In Fixation*
- *Expandable*

Large Tray Instrument Ref. Code: **K3-721**

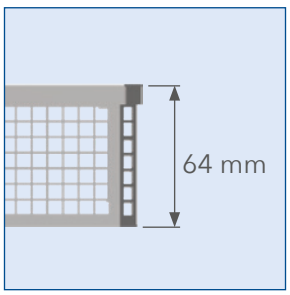




Components:

1	

Dimensions:



Large Tray
K3-721

**Dimensional tolerance ± 2 mm

CE

For more informations on our products

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info@biospine.info

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