



WASHERCAP™
FIXATION SYSTEM

IMPORTANT PRODUCT INFORMATION
INSTRUCCIONES IMPORTANTES PARA EL USO

ABANZA

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Explanation of symbols:
Explicación de los símbolos:

REF	Reference number Número de referencia
LOT	Lot number Número de lote
#	Model number Número de modelo
	Used-by date Fecha de caducidad
STERILE R	Sterilized using radiation Esterilizado mediante radiación
	Double sterile barrier system Doble sistema de barrera estéril
	Do not reuse No reutilizar
	Do not resterilize No reestérilizar
QTY 1	1 unit 1 unidad
MR	MR safe Seguro para RM
MD	Medical Device Dispositivo Médico
UDI	Unique Device Identification Identificador Único de Dispositivo
CE	CE mark Marcado CE

Caution: Federal (US) law restricts this device to sale by or on the order of a physician.
Precaución: la legislación federal de EE.UU. limita la venta de este dispositivo únicamente a facultativos autorizados o por una orden facultativa.

ENGLISH

A. DEVICE DESCRIPTION

WasherCap™ Fixation System is a device which provides soft tissue graft fastening, available in a range of sizes. WasherCap™ Fixation System consists of three parts:

- CAP:** main component of the system where the graft compression is achieved. It is made of biocompatible polyetheretherketone (PEEK).
- WASHER:** this part is provided assembled together with the Screw and, it is made of biocompatible PEEK. It should never be separated from the Screw.
- SCREW:** made of surgical biocompatible titanium alloy. It should never be separated from the Washer.

Models: there are 2 available models (19 & 21) of the WasherCap™ Fixation System which are described in the label. There is no difference in terms of safety and performance between both models and both are expected to perform equally. Model 21 is recommended to be used when the graft to be fixed is reinforced with suture tapes.

Sizes: the different sizes are based on the thickness of the graft used during the surgery procedure. The following sizes are available per model: 7mm, 8mm, 9mm and 10mm.

WasherCap™ Fixation System should be implanted by a trained surgeon following the surgical procedure recommended in the given Instructions for Use (IFU). As it is stated in section "E. PRECAUTIONS", please carefully inspect the device package prior implantation to ensure it has not been opened and/or any component of the device is damaged. In case of the product has been compromised or damaged, please contact your ABANZA representative or your local distributor.

B. INDICATIONS FOR USE

WasherCap™ Fixation System is intended for fixation of soft tissue grafts, including tendons and ligaments, during surgical procedures such as in Anterior Cruciate Ligament (ACL) reconstruction of the knee.

C. CONTRAINDICATIONS

The use of WasherCap™ Fixation System is contraindicated in the following cases:

- Fixation using Bone-tendon-bone graft.
- Known hypersensitivity to the implant materials. Where material sensitivity is suspected, appropriate tests should be carried out and sensitivity ruled out prior implantation.
- Insufficient quantity or quality of bone.
- Conditions which may limit the patient's ability to follow a post-operative regimen or willingness to restrict activities during the healing period.
- Active infections, either local or systemic.
- Limited blood supply and previous infections which may tend to retard healing.
- Any concomitant disease that may put at risk the stability of the implant upon doctor's judgement (for example, severe osteoporosis).

D. WARNINGS

- WasherCap™ Fixation System is provided STERILE and is a single patient use device. Do NOT RE-STERILIZE, do not re-use or re-implanted this device under any circumstances. Re-use WasherCap™ Fixation System could cause risks of malfunction, breaking or infection. Do not use after the expiration date.
- WasherCap™ Fixation System should only be implanted by surgeons who are familiar with the clinical use, surgical technique, proper selection and placement of the device and use of the WasherCap™ associated instrumentation.
- Federal (US) law restricts this device to sale by or on the order of a physician.
- Instruments are provided non-sterile and must be cleaned and sterilized prior to use following the "Reprocessing Instructions" (CI-001).
- Do not use the product for other purposes or surgical procedures other than those indicated in these Instructions for Use.
- In case of removal, the device may result in a potential biohazard and should be handled and disposed in accordance with accepted medical practices as well as applicable local and national requirements.

E. PRECAUTIONS

- Carefully inspect the device before use. Do not use the device if you suspect that the package has been opened and/or that any component of the device is damaged.
- Ensure the device is totally implanted to avoid possible discomfort after the surgery.
- Any decision to remove the implanted device should take into consideration the potential risk to the patient of a second surgical intervention. Implant removal should be followed by adequate postoperative management.

Note: when choosing the appropriate size of the device, the surgeon will need to consider its intended use, the surgical technique to be used, and the patient's medical history to make a decision based on their professional judgment.

F. MRI SAFETY INFORMATION

The WasherCap™ Fixation System has not been evaluated for safety in the MR environment. It has not been tested for heating or unwanted movement in the MR environment. The safety of WasherCap™ Fixation System in the MR environment is unknown. Performing an MR exam on a person who has this medical device may result in injury or device malfunction.

G. POTENTIAL ADVERSE EVENTS

- Allergies and other reactions to the device materials including foreign bodies.
- Infections, both deep and/or superficial.
- Implant failure leading removal and follow-up surgeries.

H. STERILIZATION

- WasherCap™ Fixation System is provided STERILE and ready to use. Refer to the package label for the sterilization method. The implant must not be re-sterilized under any circumstance.
- The associated Surgical Instrument Set is not provided sterile. All surgical instruments must be cleaned and sterilized before use as detailed in the "Reprocessing Instructions" (CI-001). Instruments may be re-used after cleaning and sterilization.

Recessed and hidden areas within instruments should be inspected to ensure that entrapped or other residual materials are completely removed.

The sterilization parameters described in the "Reprocessing Instructions" (CI-001) are only valid for surgical instrument sets that are adequately cleaned.

It is recommended that the associated Surgical Instrument Set be sterilized only by moist heat autoclave procedures regularly used in the hospital, as detailed in the "Reprocessing Instructions" (CI-001).

The document "Reprocessing Instructions" (CI-001) indicates which instruments must be disassembled before cleaning and reassembled before sterilization.

Note: The autoclave must be properly installed, maintained, and calibrated. The autoclave manufacturer's operating instructions and recommended guidelines for maximum sterilization load should be followed.

I. CAUTION

WasherCap™ Fixation System should only be used if the original packaging and labelling are present and intact.

Note: If the package has been opened and/or that any component of the device is damaged, please inform the Customer Service or your local distributor.

J. MATERIALS

- PEEK - Polyetheretherketone, according to ASTM F-2026.
- Titanium alloy, according to ASTM F-136 and ISO 5832.

K. STORAGE CONDITIONS

WasherCap™ Fixation System should be stored within its original package.

L. IMPLANT FIXATION INSTRUCTIONS

WasherCap™ Fixation System should be implanted following the surgical procedure recommended in these Instructions for Use (IFU) by a trained surgeon. Users of this device are advised to contact their local distributor if, in their professional judgement, they require a new surgical technique training:

- Prepare the patient pre-operatively according to standard procedures.
- Measure the diameter (in mm) of the graft using a graft sizing block. The graft diameter will determine which size of WasherCap™ device is to be used.
- Use the following guidelines to determine WasherCap™ size to be selected, based on the graft measured:

Diameter (Ø) in mm				
Graft size	6.1 to 7mm	7.1 to 8mm	8.1 to 9mm	9.1 to 10mm
WasherCap™ size (models 19 & 21)	7mm	8mm	9mm	10mm

Notes:

- The same Surgical Instrument Set associated to the WasherCap™ can be used with both models 19&21.
- Both the Surgical Instrument Set associated, and the procedural steps described below are applicable for the implantation of the WasherCap™ as tibial and femoral fixation.

Procedural steps according to below illustrations:

- Create the bone tunnel according to the graft size using the universal ACL instruments.
- Select the appropriate Countersink Positioner size according to the size of the WasherCap™ Fixation System to be implanted and place it in the tunnel until the lateral stoppers reach the cortex. Then, insert the Positioner Guide in the Countersink Positioner until it stops in the trabecular bone. Finally, pass the Kirschner wire provided by ABANZA through the Positioner Guide until the laser mark is reached.
- Remove the Positioner Guide and then the Countersink Positioner, leaving the Kirschner wire provided by ABANZA in the correct position for countersinking.
- Select the appropriate cannulated Countersink size according to the size of the WasherCap™ Fixation System to be implanted, then countersink the cortex. After forming, remove the Countersink and the Kirschner wire.

Take the sterile package containing the WasherCap™ size model selected. Open the package and place all elements on an aseptic surface within surgical environment.

Visually examine the product before implantation. Do not use the device if you suspect that any component of the device is damaged.

- Select the appropriate Inserter size according to the size of the WasherCap™ Fixation System to be implanted and attach it to the Handle with AO connection system. Carefully accommodate the Cap on the Inserter with the appropriate Inserter Coupling Screw according to the size of the Inserter selected and screw it to ensure its correct manipulation.

Diameter (Ø) in mm				
WasherCap™ size (Models 19 & 21)	7mm	8mm	9mm	10mm
Inserter size	7mm-8mm		9mm-10mm	
Inserter Coupling Screw Size	7mm-8mm		9mm-10mm	

- Insert the Cap in the tunnel and hits in the end of the handle with a mallet. Ensure the Cap is totally inserted according to the illustration. Then, remove the Coupling Screw and the Inserter.

- Select the appropriate Awl size according to the size of the WasherCap™ Fixation System to be implanted and attach it to the Handle with AO connection system. Use the Awl to create a space on the bone for a correct screw threading. Insertion and removal of the Awl must be on the same screw's hole direction, perpendicular to the bone surface.

Diameter (Ø) in mm				
WasherCap™ size (models 19 & 21)	7mm	8mm	9mm	10mm
Awl size	7mm-8mm		9mm-10mm	

- Pass the graft with the sutured extremes through the Cap to the opposite side.

- While tightening the graft, pointing at 4 and 8 hours respectively, put the assembly "Screw and Washer" on the thread of the Cap and then screw them, using the WasherCap™ Screwdriver, until the Washer is fully enclosed to the Cap.

Once WasherCap™ is fully implanted, remove the remaining graft using a sterile cutting tool leaving at least 5mm protrusion excess.

Finish the surgical process according to the standard procedures.

M. POSSIBLE SIDE EFFECTS AFTER INTERVENTION

- Wounds or lesions on the site of intervention.
- Pain, discomfort or abnormal feeling due to the presence of the device.
- In case the implant requires removal and a follow-up surgery is scheduled, a device of the same size or one size larger than the one initially implanted should be used. In any case, please contact with your ABANZA representative or your local distributor.

N. DISCLAIMER

Please contact ABANZA's customer service for a copy of the Instructions For Use (IFU) and the "Reprocessing Instructions" (CI-001) for the associated Surgical Instrument Set Management. All surgical instruments which may be damaged, scratched, showing defects, corrosion, cracked joints or discoloration, should not be used and be managed according to hospital protocol rules. Any misuse, modification or substitution of WasherCap™ Fixation System or the Surgical Instrument Set it is strictly forbidden. If this recommendation is not followed by the surgical team, ABANZA rejects any responsibility derived from any subsequent consequence.

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O. POSSIBLE EFFECTS ADVERSOS

- Alergias y otras reacciones a los materiales, incluidas las reacciones a cuerpos extraños.
- Infecciones, tanto profundas como superficiales.
- Fallo del implante que requiera retirarlo y una segunda intervención.

P. IMPLICACIONES DE USO DEL IMPLANTE

El Sistema de Fijación WasherCap™ es suministrado ESTÉRIL y listo para su uso. Consulte la etiqueta del producto para conocer el método de esterilización. El implante no debe ser reesterilizado bajo ningún concepto.

El Set de Instrumental Quirúrgico asociado no se suministra estéril. Todos los instrumentos quirúrgicos del set se deben limpiar y esterilizar antes de su uso tal y como se detalla en el documento "Instrucciones de Reprocado" (CI-001). Los instrumentos pueden ser reutilizados después de su limpieza y esterilización.

Deberán revisarse las cavidades y áreas ocultas del interior del instrumental para garantizar que los materiales atrapados u otros materiales residuales se eliminan por completo.

Los parámetros de esterilización descritos en el documento "Instrucciones de Reprocado" (CI-001) solo son válidos para sets de instrumental que se han limpiado adecuadamente.

Se recomienda que el Set de Instrumental Quirúrgico asociado se esterilice únicamente por calor húmedo en autoclave (procedimientos usados normalmente en hospitales), tal y como se detalla en el documento de "Instrucciones de Reprocado" (CI-001).

En el documento "Instrucciones de Reprocado" (CI-001) se indican aquellos instrumentos que deben desmontarse antes de la limpieza y volver a montarse antes de la esterilización.

Nota: el autoclave se debe instalar, mantener y calibrar correctamente. Se deberán seguir las instrucciones recomendadas por el fabricante del autoclave y las pautas recomendadas de esterilización.

Q. PRECAUCIÓN

El Sistema de Fijación WasherCap™ solo debe utilizarse si el embalaje y el etiquetado original están presentes e intactos.