

# Implants for Osteosynthesis

# Instruction for Use

# ENGLISH

IMPORTANT PRODUCTINFORMATION! PLEASE READ CAREFULLY BEFORE EACH CLINICAL accordingly. APPLICATION!



Dear customer!

contact us

product, the proper use of which is described in the in areas that are not, or lightly, stressed. following. In order to minimize hazards for patients and . Trauma users, we ask you tu carefully read an oberve the Skull fractures | Orbital rim fractures | Frontal sinus instruction für use. Anton Hipp GmbH also offers user training for our systems **Reconstruction of bone defects and** 

The scope of these instructions for use refers to the alveolar area | Dental processes of the jaws | following products or systems:

#### ARCOS® CMF System

Micro 1.2 System TIN 1.6 System MINI System 2.0 FRAKTUR System 2.3 **REKONSTRUCTION System 2.7** 

#### **ARCOS® Hand System**

1.2 XS System 1.6 S System 2.3 M/L System 2.7 X/L System

## **ARCOS®** Foot System

M/L 2.3 System XL 2.7 System

#### DESCRIPTION

The ARCOS® Systems of Anton Hipp GmbH are plate and screw systems for craniomaxillofaciale osteosynthesis, hand- und foot osteosynthesis. The individual implants - median, paramedian fractures, mandibular body and • Reconstructive surgery systems differ based on the diameter of the respective mandibular angle fractures and in various forms as titanium screws by the description and a color coding simple, multiple, oblique, and comminuted fractures individually assigned to each implant - system.

#### IFU 100 V 04 - Revision 04 - EN - Issue date: 13.10.2022 Basis UDI-DI Plates 4066591PG01-01BL | Screws 4066591PG01-02BN

MATERIALS Titan Grade 1 | ASTM F67 | ISO 5832-2 Titan Grade 2 | ASTM F67 | ISO 5832-2

Titan Grade 4 ASTM F67 USO 5832-2 Titan Grade 5 - FLL | ASTM F136 | ISO 5832-3 TITAN Grade Nb ASTM F 1295 | ISO 5832-11 Screwbox (ULTRAFORM® N2320 003 PRO UNCOLORED)

# MRT-Information

MR conditional Titan-Implants are MR-suitable but /MR\ not unrestrictedly safe.

static magnetic field strength, radiofrequency fields, specific absorption rate and artifact distortion around the image. In terms of artifact formation, the geometry of the implant is a contributing factor in addition to the material. Therefore, it may be necessary to optimize the MRI parameters

#### INTENDED USE

The osteosynthesis implants of the ARCOS® systems are used for stabilization of bone segments or fragments, as well as bone malformations up to bony consolidation in craniomaxillofacial surgery and hand and foot surgery. Bone plates, screws and meshes are intended for single use only.

#### INDICATION/PURPOSE

(system-related)

#### ARCOS® CMF System

### MICRO 1.2 System

With your purchase, you will receive a high-quality Used in the upper cranial region and in the jaw area

malformations Skull cap | Orbita / zygomatic bone area | Dento-Fixation of bone grafts (bone augmentation, alveolar ARCOS® Hand System

# ridge)

TIN 1.6 System Is used in the middle and upper cranial region in • Osteosynthesis (Traumatology) areas that are not or lighlty loaded Trauma

Le Fort I, II, III fractures | Zygomatic fractures | Orbital fractures | Frontal sinus fractures | Naso- 
Osteosynthesis (Traumatology) orbital-ethmoidal fractures | Skull fractures

#### Reconstruction of bone defects and malformations

osteotomies in these levels | Maxilla | Orbita / Used for fractures of the proximal phalanx and Zygomatic region | Skull cap | Fixation of bone grafts metacarpal (MC) bone

#### (bone augmentation alveolar ridge) MINI System 2.0

Is used in the upper jaw (maxilla) as well as in the lower jaw (mandible) in lightly loaded areas.

### Trauma

Craniofacial fractures and midface fractures | Mandibular fractures with various locations as 

Osteosynthesis (Traumatology) | Lag screw osteosynthesis for sigital clefting

- Orthognathic surgery if the midface and Non-reducible and stabilizable fractures (except mandible including sagital cleft and chin plastic surgerv
- Reconstruction of bone defects and malformations
- ridge)

### FRAKTUR System 2.3

Used exclusively in the mandible (mandibular) in lightly to moderately loaded areas Trauma Mandibular fractures with different localizations as

median, paramedian, mandibular body and mandibular angle fractures and in different forms as simple, multiple, obligue and comminuted fractures | Lag screw osteosynthesis for sigital fissure

Orthognathic surgery of the midface and mandible including sagital cleft and chin plastic

# Conditions that define the MR environment are RECONSTRUCTION System 2.7

surgery

Used exclusively in the mandibular region. Primary indication: reconstruction of the mandible in a single step, with the ARCOS® 2.7mm Reconstruction Plate restoring mandibular continuity.

 Bridging of the mandibular continuity defect with an ARCOS® 2.7 mm Reko-Plate and additional fixation of free non-vascularized or microvascular pedicled bone grafts in the same surgical step; i.e. reconstruction with autologous bone in case of resection of a tumor of the jaw or oral cavity, osteomyelitis, drug associated osteonecrosis of the jaw or osteoradionecrosis.

Secondary reconstruction of the mandible, \_ where the jaw resection has taken place at an earlier stage, the plate is then used to restore the former position of the jaw stumps to each other and to fix a microvascular or free bone graft to . The correct choice of implants is of utmost bridge the defect in the long term as a biological replacement.

Mandibular fractures especially mandibular fragment fractures, mandibular comminuted fractures, mandibular defect fractures as well as fractures in the atrophic mandible where the load has to be bridged in sections of the mandible. Lag screw osteosynthesis in case of sigital cleavage

# 1.2 XS System Used for fractures of the middle and distal phalanx. Reconstructive surgery

### 1.6 S System

Used for middle phalanxx fractures.

#### Reconstructive surgery Arthrodese

Le Fort I, II, III Level and for repositioning 2.3 M/L System | 2.7 X/L System

Osteosynthesis (Traumatology)

#### Reconstructive surgery

Arthrodese

# ARCOS® Foot System

2.3 M/L System | 2.7 X/L System Used for phalanx, metatarsal and tarsal fractures.

### CONTRAINDICATION

- reconstruction plates).
- Fractures of a severely atrophic mandible Mandibular 2.3mm Systems).
- Patients with manifest infection. Fixation of bone grafts (bone augmentation, alveolar Patients with metal allergy and foreign body
  - hypersensitivity. Patients without adequate compliance who are
  - unwilling or unable to follow aftercare

condition.

- Patients with impaired blood flow or insufficient bone quality or quantity.
- Patients with an unstable physical and/or mental health condition. Mandibular reconstructions with ARCOS<sup>®</sup> System
- 1.2/1.6/2.0 implants. Secondary reconstructions with ARCOS® 2.0
- plates without bone grafts.

#### COMPLICATIONEN In many cases, undesirable results are not due to

- the implant but to clinical circumstances Implant loosening due to insufficient tightening of
- the screws. Massive bending and fracture of the implant
- Bone necrosis, osteoporosis, limited revascularization, bone resorption, an poor new bone formation can lead to loosening, bending, tearing, or fracture of the implant or premature loss of fixation in the bone, resulting in nseudarthrosis
- Delayed, insufficient or absent osseous build-up of the fracture due to incorrect alignment can lead to fracture of the implant.
- immediately after resection of the mandible e.g. . Increased connective tissue reactions may occur around the fracture site due to unstable fragment fractures.
  - Early or late infection of a deep or superficial nature. Nerve damage as a result of the surgical trauma.

GENERAL WARNINGS importance. It is essential to select the appropriate type and size for the specific patient. Implant components, bone or components/bones may loosen, bend, crack or break if the largest possible components are not used or an unsuitable position is present. The implant must be implanted in the correct anatomical position according to generally accepted standards. If a product unsuitable for the intended use is used. premature clinical implant failure may occur. Failure to use the correct component to maintain

- adequate blood supply and rigid fixation may result in bending or fracture of the implant and/or hone Care must be taken to ensure that the forces to
- be transmitted by the implants are kept low through appropriate choice of biomechanics. The screws to be implanted must not lie in the
- fracture line. The screw threads must be completely fixed in the bone and the screw must be of sufficient length.

## WARNINGS BONE PLATES

As a result of cold forming during bending of the plate, the hardness of titanium increases and its deformability (pliability) decreases. It is therefore essential to ensure that the desired shape of the implant is achieved with as few bending steps as possible. Excessive bending can lead to nostoperative plate fracture Plates that have been bent back and forth too much should be discarded.

- When bending, acute angles and small bending /! radii must be avoided at all costs due to the in many cases, complications are caused by the We would like to point out that implants only fulfill potential risk of postoperative plate fracture. surgical procedure rather than the implant. Therefore, straight plates must not be formed to the angulus.
- Aggressive use of bending instruments can lead to Skin rash visible macroscopic damage to the implant . Loosening of the implant due to insufficient, (indentations, oval screw holes, etc.). In this case,
- the implant must be replaced with a new implant. (excluding reconstruction plates and plates of the Deformed screw holes not only mean an increased risk of breakage in these areas, but also affect the precise fit of the screw head in the
  - plate. Tension-cut bone plate segments may need to be deburred prior to implant placement to avoid soft

tissue injury or irritation

instructions due to their mental or neurological • The plates should be shaped as closely as possible • Pain, numbness, or hypersensitivity at the implant to the anatomical contour of the bone. Gaps site

crossbite situation, disarticulation and/or trismus

tearing, or fracture of the implant or premature loss

of fixation in the bone, resulting in pseudarthrosis.

When cutting, make sure that the cut parts do not fling

Drills / drilling aids should always be selected in the

When drilling, ensure sufficient cooling with an NaCI

depth gauge corresponds to the screw length as

APPLICATION AND SAFETY

SAFETY PRECAUTIONS

their function correctly if the following basic rules

1 Implants serve only to promote healing and are

not a substitute for intact tissue and bone material.

2. Apart from mandibular bridging plates and

arthrodesis restorations, implants are designed to

perform their function only until bone healing

injury can place excessive stress on the implant.

Postoperatively, the patient must be on a passaged

INSTRUCTIONS

sorted out.

The implants of Anton Hipp GmbH must

never be combined with products,

components and instruments (with the

The products must be checked for

defects, cracks, nicks or other damage

before use. Damaged products must be

The products are delivered in a non-

sterile condition and must be

completely cleaned, disinfected and

sterilized by the user before first use.

connection and drill aid are compatible.

osteoporosis,

limited

necrosis.

self-tapping, so that no thread needs to be pre- Plate cutting instruments are used to divide or shorten

in the vicinity of a bone gap. In these cases, the away, therefore do not point them at people when

thread should be pre-cut before inserting the cutting and possibly cover them during the cutting

All screws may only be used with the The plate part to be used must be deburred after

Before inserting the self-tapping screws, pre-drill shortest version to ensure the best possible

with suitable and sufficiently large drills and concentricity. It should be checked whether the drill

Self-drilling screws are not recommended for very solution to minimize the heat load on the bone. This

small and thin bone parts because they can be is the only way to minimize the risk of bone

The screwdriver must be inserted into the screw **Depth gauges** are used to measure the screw length

head with slight axial pressure to ensure that the with the implant plate. The value displayed on the

When inserting the bone screws, the screwdriver exception of the instruments mentioned) of other

must be passed over the screw head with manufacturers. Combinations with products from

sufficient axial pressure to ensure that axial other manufacturers can have a negative influence

alignment and good contact between screwdriver on the result of the procedure and are not

and screw is achieved. Otherwise there is an permitted, as the components used may not be

STERILE

are observed:

Increased connective tissue reaction in the (usually 6-10 weeks). Delayed healing, impaired

fracture area due to unstable comminuted bone healing, subsequent bone resorption, or even

The following side effects may occur after resulting in loosening, bending cracking, or fracture.

diet

ARCOS® CMF System

correspondingly color-coded blades of the screws cutting to avoid frictional conditions on the fabric...

determine the exact drilling depth for selecting Basically, work with speeds of <= 1000 rpm.

process.

cut before inserting the bone screws. Exceptions bone plates in the area of the bars.

ACCESSORIES / COMBINATION PRODUCTS

between plate and bone should be avoided. Nerve irritation, nerve palsy, neuropathy, or hearing Cutting the bone plate, may increase the risk of loss implant failure. When the surgeon cuts a plate, . Occlusion disorder, restriction in opening the mouth, care must be taken to ensure adequate strength, support and fixation for the intended use. Cutting 

Dehiscence a plate between screw holes is the preferred . continuous bone resorption (stress shielding) method to maintain strength properties. Sharp Protrusion edges should be ground to avoid soft tissue Infection damage or irritation.

 Material incompatibility In general, all plates with the corresponding color-Bone coded screws from the same system must be revascularization, bone resorption, and poor new used bone formation can lead to loosening, bending, All plates are to be implanted with the pre-sunk

Unless otherwise indicated, the bone screws are Instruments

WARNINGS BONE SCREWS

exist in the case of compact cancellous bone and

the screw length. The drills and screws must be

contact between the screwdriver and the screw

thereby preventing damage to the screw head

Otherwise there is an increased risk of mechanical

Do not overtighten the screws when inserting

them. Over-tightening can damage the screw

head, cause the screw thread to tear out, break

the screw and cause the screw to lose its tight fit.

In the event of the screw thread being torn out,

the appropriate emergency screws must be used.

Before explanting an implant, the screw head

must be cleaned with a scalpel or other suitable

instrument so that the blade of the screwdriver is

Possible nerve or blood vessel damage as a result

After completion of implantation, all bone

screws must be retightened to ensure a firm

connection between plate and screw.

optimally seated in the screw head.

POSSIBLE SIDE EFFECTS

Mucosal or tissue reaction

of the surgical procedure.

improper attachment

fractures.

implantation

damage to the implant or the screwdriver blade.

displaced by the axial pressure during insertion. demineralization.

This ensures correct axial alignment and complete indicated on the packaging.

increased risk of damage to the implant or compatible with each other.

used with identical color coding.

blade is fully seated in the screw head.

screwdriver due to mechanical effects.

screw holes facing upwards.

screws.

used

3. The surge surgical res Special atte such as pro and the nee	on should discuss in detail with the patient the ult to be expected when using this product. ntion should be paid to postoperative aspects, per postoperative nutrition with a passed diet d for regular medical aftercare.	or have been contaminated must not be reused under any circumstances. Instruments The following applies to the instruments for insertion and explantation:	<ul> <li>that, if thermal disinfection is not used, a suitable disinfectant with tested efficacy (e.g. VAH / DGHM or FDA / EPA approval / clearance / registration or CE marking) is also used and that this is compatible with the cleaning agent used and</li> </ul>	<ul> <li>validated according to DIN EN ISO 17665 (valid SY) IQ/QQ (picking) and product-specific performance assessment (PQ))</li> <li>maximum sterilization temperature 134 °C (273 °F; plus tolerance according to DIN EN ISO 17665)</li> </ul>		Manufacturer
<ol> <li>The patient of the pati</li></ol>	ent must be instructed to notify the surgeon y of any unusual change in the surgical site. If a oted at the fixation site, the patient must be	Immediately after application (within a maximum of 2 h), coarse impurities must be removed from the acaduate	<ul> <li>that the chemicals used are compatible with the products.</li> <li>The concentrations, temperatures and exposure</li> </ul>	Sterilization time (exposure time at the sterilization temperature):	~~~	Date of manufacture
closely mo possibility o patient the 5. All implar	nitored. The surgeon should consider the f clinical implant failure and discuss with the necessary measures to promote healing. hts must be inspected before each clinical use.	If, due to the duration of the application or as a result of organizational aspects, this time cannot be observed, the user must define and validate	times specified by the manufacturer of the cleaning agent and, if applicable, the disinfectant, as well as the specifications for post-rinsing, must be strictly observed.	Minimum 5 minutes at 134 °C (273 °F) USA minimum 4 minutes at 132 °C (270 °F),	NON STERILE	Non-steril
<ol> <li>Bending circumstand</li> <li>The reu</li> </ol>	templates must not be implanted under any res. se of explanted as well as already formed	prevent the soiling from drying through: 1. Rinse the products for at least 1 min under	Procedure: 1. Place the products in the washer-disinfector. Make sure that the products do not touch each	France minimum 5 minutes at 134 °C (273 °F) f required for prion inactivation Sterilization time 18 minimum	$\otimes$	Do not reuse
implants is may show s which may lea	not permitted. An undamaged-looking implant igns of fatigue due to previous unknown loads, ead to premature failure of the implant.	running water (temperature < 35 °C/95 °F). 2. Place the products in a sufficiently large pre- cleaning bath (in an ultrasonic bath that has not yet been activated) for the specified exposure time so	other. 2. Start the program. 3. Remove the products from the WD at the end of the accord	Other countries minimum 5 minutes at 132 °C (270 °F) / 134 °C (273 °F)	LOT	Batch designation
of the produ Implants th	v undamaged of the outside, but previous y have caused defects that can shorten the life Jct. at have already had contact with a patient or	that the products are completely covered. Make sure that the products are completely covered. Make sure that the products do not touch each other. Support the pre-cleaning by completely brushing all internal	<ol> <li>The program.</li> <li>Check and pack the products as soon as possible after removal.</li> <li>Proof of the basic suitability of the products for</li> </ol>	PRODUCT LIFE The service life of the products is largely dependent on its sterility. The implants themselves are not	REF	Catalog number
have been reused unde Failure to e	contaminated with blood/tissue must not be er any circumstances. bbserve these precautions can have serious	<ul> <li>and external surfaces.</li> <li>Activate the ultrasound for a renewed minimum exposure time (but not less than 5 min).</li> </ul>	effective manual cleaning and disinfection was provided by an independent, officially accredited and recognized (§ 19 MPDG) test laboratory using	sensitive to environmental conditions. Furthermore, a lifetime of the products in clinical use cannot be determined. The physician and the patient usually decide use the extention is the back and there as the	SN	Serial number
Consequent ARCOS® H We would I	xes. and & Foot System ike to point out that implants only fulfill their	<ol> <li>Remove the products from the pre-cleaning bath and rinse them thoroughly with water at least three times (at least 1 min).</li> </ol>	the pre-cleaning and cleaning agent Cidezyme / Enzol and the disinfectant Cidex OPA (Johnson & Johnson GmbH, Norderstedt). The procedure described below was taken into account	service life. At the beginning, the implant serves as a bridge connection until the reduced bone has	MR	MR conditional
function con 1. Implants substitute for 2. When se	rectly if the following basic rules are observed: are used only to promote healing and are not a or intact tissue and bone material. lecting implants, care must be taken to select	When selecting the cleaning agent to be used, it is important to ensure that, - that this is basically suitable for cleaning invasive medical devices made of metals and plastics,	FUNCTIONAL TESTING AND PACKAGING The products must be checked for cleanliness and functionality after reprocessing and before	unlimited retention period of product-specific records in order to fulfill our obligation as manufacturer and distributor. The products are	Ť	Store dry
them accorn as well as th 3. Care mu	ding to the patient's weight and activity level, refracture to be treated. It be taken to ensure that the forces to be	<ul> <li>that the cleaning agent is suitable for ultrasonic cleaning (no foam development),</li> <li>that the detergent is compatible with the products</li> </ul>	sterilization. If necessary, the reprocessing process must be repeated until the product is visually clean. Please pack the products or the sterilization trays in	To date, we are not aware of any negative feedback from the market.	漛	Protect from sunlight
transmitted choice of bi 4. Severe d However, c	by the implants are kept low by a suitable omechanics. eformation of the implants must be avoided. orrect bending of the plates does not cause	The concentrations, temperatures and exposure times specified by the manufacturer of the cleaning agent or disinfectant, as well as specifications for	sterilization containers or very large products in single-use sterilization packaging (single or double packaging) that meet the following requirements (material learners):	Implants must be stored before use in such an environment that maintains their packaging and purity. Dry atmosphere, no extreme temperatures,	Rx Only	Prescription
damage. 5. Multiple 6. The reuse	deformations are to be avoided. e of implants is not allowed.	post-rinsing, must be strictly adhered to. Use only freshly prepared solutions, only sterile or low-germ (max. 10 germs/ml) as well as low-endotoxin (max. 0.25 endotoxin_units/ml) water (e.g. purified	- DIN EN ISO/ANSI AAMI ISO 11607 (for USA: FDA- Clearance) - suitable for steam sterilization (temperature	no exposure to sunlight, ionized radiation and contaminated particles. To avoid corrosion, pay special attention to the absence of chemicals in the immediate vicinity.	$\triangle$	Attention
<ol> <li>advantages</li> <li>Excessive</li> <li>avoided due</li> </ol>	gy advise you to inform the patient about the and disadvantages of implants. loading of the patient's body weight should be a to the limited strength of the implants. The	water/highly purified water) or only a soft, clean and lint-free cloth for drying (Caution: Be careful with products with rough surfaces, threads, sharp edges	resistance up to at least 138 °C (280 °F) sufficient steam permeability) - Sufficient protection of the products or	DISPOSAL Disposal of Medical Devices Unless otherwise	i	Observe instruction for use
implant ma patients su delayed hea	y bend, fracture, or pull out of the bone in bjected to repetitive stress, suffering from ling or delayed growth of the bone.	or similar, on which particles from the cloth can stick!) and/or filtered air. Mechanical cleaning/disinfection (WD)	<ul> <li>regular maintenance according to the manufacturer's specifications (sterilization container)</li> </ul>	specified, devices must be disposed of as medical devices in accordance with facility procedures. PATIENT BEHAVIOR		CE marking with number of the Notified Body
9. Before in with suitab drilling dep length.	serting the screws, the drill must be pre-drilled le and sufficiently large drills and the exact th determined for the selection of the screw	When selecting the WD, it is important to ensure that, - that the WD basically has a tested effectiveness (e.g. DGHM or FDA approval/ clearance/ registration	- A maximum weight of 10 kg per package/content of the sterilization container must not be exceeded In principle, the implants themselvess may cally be inserted once. Once an	It must be pointed out to the patient that the safety and service life of the implant depend on his behavior and activity. It is therefore contraindicated any form of competitive sport in which the implants	MD	Medical product
small and th pressure du	ing screws are not recommended for very in bone parts, as they can be displaced by axial ring insertion.	<ul> <li>or CE marking according to DIN EN ISO 15883),</li> <li>that, if possible, a tested program for thermal disinfection (A0 value &gt; 3000 or - for older devices -</li> </ul>	insertion has been completed, the implants may not be used again. If the implants are not clinically used and are not contaminated in the	are affected. INTERACTION WITH DRUGS Interactions with drugs are not known.		
consequences.		chemical disinfection risk of disinfectant residues on the products)	operating room, the implants may be reprocessed again.	DISCLAIMERS/WARRANTY The products are made of high quality materials and		
CLEANING / Basics	DISINFECTION	<ul> <li>that the program used is suitable for the products and contains sufficient rinsing cycles (at least three</li> </ul>	However, this does not apply: If the color anodization of the implants has changed	are subjected to quality control before delivery. However, should any defects occur, please contact		
If possible, a mechanical process (washer-disinfector) should be used for cleaning and disinfection. A manual		depleting steps after cleaning (or neutralization, if	in such a way that a correct assignment to the corresponding drills, bone screws, bone plates is no	our service department. However, we cannot guarantee that the products are suitable for the		
process - also using an ultrasonic bath - should only be		effectively prevent detergent residues),	longer guaranteed. The service life of the implants is therefore over and the products must be disposed	respective operation. This must be determined by		
accordance with country-specific requirements (e.g. in		<ul> <li>that only sterile or low-germ (max. 10 germs/ml)</li> <li>and low-endotoxin (max. 0.25 endotoxin units/ml)</li> </ul>	of.	accidental or resulting damage.		
Germany, a mechanical process is mandatory for critical B		water (e.g. purified water/highly purified water) is	STERILIZATION	Any product liability expires,		
reproducibility.		used for rinsing, - that the air used for drving is filtered (oil-free low	Only the sterilization methods listed below may be used for sterilization; other sterilization methods are	<ul> <li>handling, cleaning and / or sterilization.</li> </ul>		
Pretreatment must be carried out in both cases.		in germs and particles) and	not permitted.	<ul> <li>in case of faulty cleaning and sterilization</li> </ul>		
Pretreatme Implants	nt	<ul> <li>that the WD is regularly maintained, checked and calibrated.</li> </ul>	Steam sterilization	<ul> <li>In case of non-observance of these instructions for use</li> </ul>		
۰	Pretreatment of the implants is not required,	When selecting the cleaning agent system to be	<ul> <li>tractionated vacuum process (with sufficient product drving)</li> </ul>			
<u>/</u> ]\	as bone screws, bone plates and meshes that have already been in contact with a patient	<ul> <li>used, the following points must be observed</li> <li>that this is basically suitable for cleaning invasive medical devices made of metals and plastics,</li> </ul>	<ul> <li>Steam sterilizer according to DIN EN 13060/DIN EN 285 or ANSI AAMI ST79 (for USA: FDA-Clearance)</li> </ul>			