

# **Drilling Instruments**

Instruction for Use

# **ENGLISH**

IMPORTANT PRODUCTINFORMATION! PLEASE READ CAREFULLY REFORE FACH CLINICAL APPLICATION!



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### Dear customer!

With your purchase, you will receive a high-quality product, the proper use of which is described in the following. In order to minimize hazards for patients and users, we ask you tu carefully read an oberve the instruction für use.

and products. Please contact your direct distributor or contact us

# DESCRIPTION

(osteosynthesis) when using bone screws without self- available motor systems. The compatibility does drilling function. The drilling instruments are color-coded to show the user which drills to use for which screw system. The choice of the respective drill and thus also of the respective screw is made by the treating surgeon.

### MATERIALS

Stainless steel according to DIN EN ISO 7153-1

### INTENDED USE / INDICATION

Anton Hipp Twist Drills are intended for drilling holes in small and large bone in craniomaxillofacial surgery, hand and foot surgery, and in reconstruction or osteosynthesis.

# CONTRAINDICATION

The products are contraindicated for all other uses except for the techniques mentioned in the intended purpose / indication(s)

# **COMPLICATIONS / SIDE EFFECTS**

After contact with the drilling instrument. hypersensitivity reactions can be triggered in a patient with material intolerance to stainless steel. In the event of such a reaction, the the necessary steps taken.

potential complications / side effects such as breakage of the drill instrument and swallowing of components could be identified.



# **GENERAL WARNINGS**

appropriate screw length is to be determined. even break the bearing

must be stopped immediately. The defective Pretreatment drilling instrument must be replaced.

Excessive application of force or axial forces can lead to excessive loading as a result of or break.

When using bone drills, ensure appropriate Mechanical cleaning/disinfection (WD) cooling to avoid heat damage and necrosis

When selecting the WD, it is important to ensure - A maximum weight of 10 kg per package/content

Improper sterilization as well as non-sterile that, handling can lead to serious health risks for the

Anton Hipp GmbH also offers user training for our systems color coding, which the system displays.

### ACCESSORIES / COMBINATION PRODUCTS

Depending on the connection, the drilling instruments are to be operated with the The drilling instruments are used for predrilling implants corresponding drilling machines or commercially not depend on the machine type but on the instrument receptacles.

### Drilling instruments / drilling aids

Always use the shortest possible drill bit to ensure the best possible concentricity. It should be checked whether the drill connection and the drill are compatible. Basically, only work with drill sleeve or similar and at speeds of <= 1000 rpm. When drilling, ensure sufficient cooling with NACI to minimize the heat load on the bone. This is the only way to minimize the risk of bone demineralization

# Denth gauge

Measurement of the screw length with the plate/mesh after drilling has been completed. The value displayed on the depth gauge corresponds to the screw length as indicated on the packaging.

# APPLICATION AND SAFETY INSTRUCTIONS



The products must be checked for defects, cracks, nicks or other damage sorted out.



sterile condition and must be observed completely cleaned, disinfected and Procedure: sterilized by the user before first use. 1. Place the products in the washer-disinfector.

# STORAGE NOTICE



Drilling instruments must be stored other before use in an environment that 2. Start the program. cleanliness. Dry atmosphere, no extreme the program. temperatures, no exposure to sunlight, 4. Check and pack the products as soon as possible USA ionized radiation and contaminated after removal.

# **EXCLUSION OF REUSABILITY**



once must not be reused. The products are intended for single use only. If drilling

procedure must be discontinued immediately and instruments are not used clinically and are not contaminated in the operating room, they may be In the course of market monitoring, further used after reprocessing and sterilization.

# CLEANING / DISINFECTION

### Basics

If possible, a mechanical process (washerdisinfector) should be used for cleaning and must be repeated until the product is visually clean. disinfection. A manual process - also using an Please pack the products or the sterilization trays in Depending on the use of the screw system, ultrasonic bath - should only be used if a mechanical sterilization containers or very large products in select the corresponding color-coded drill bit. process is not available or in accordance with single-use sterilization packaging (single or double The drilling depth for the selection of the country-specific requirements (e.g. in Germany, a packaging) that meet the following requirements mechanical process is mandatory for critical B (material/process): the contra-angle handpiece head to strike or products) due to the significantly lower effectiveness - DIN EN ISO/ANSI AAMI ISO 11607 (for USA: FDAand reproducibility.

# If an unbalance occurs, the drilling process Pretreatment must be carried out in both cases.

Pretreatment is not required as drills that have already been in contact with a patient or have which the drilling instruments can be damaged become contaminated must not be reused under any circumstances

- that the WD basically has a tested effectiveness (e.g. DGHM or FDA approval/ clearance/ registration Defective, blunt or otherwise non-functional or CE marking according to DIN EN ISO 15883),
- tools must be disposed of and must not be that, if possible, a tested program for thermal disinfection (A0 value > 3000 or - in the case of older The identification of the screws and drills is done by devices - at least 5 min at 90 °C/194 °F) is used (in the case of chemical disinfection, there is a risk of disinfectant residues on the products).
  - that the program used is suitable for the products and contains sufficient rinsing cycles (at least three depleting steps after cleaning (or neutralization, if applied) or conductivity control recommended to effectively prevent detergent residues).
  - that only sterile or low-germ (max. 10 germs/ml) and low-endotoxin (max. 0.25 endotoxin units/ml) water (e.g. purified water/highly purified water) is used for rinsing
  - that the air used for drying is filtered (oil-free, low in germs and particles) and
  - that the WD is regularly maintained, checked and

When selecting the cleaning agent system to be used, the following points must be observed.

- that this is basically suitable for cleaning invasive medical devices made of metals and plastics.
- FDA / EPA approval / clearance / registration or CE not permitted. marking) is also used and that this is compatible with the cleaning agent used and
- that the chemicals used are compatible with the products.

The concentrations temperatures and exposure before use. Damaged products must be times specified by the manufacturer of the cleaning agent and, if applicable, the disinfectant, as well as The products are delivered in a non- the specifications for post-rinsing, must be strictly

Make sure that the products do not touch each

- maintains their packaging and 3. Remove the products from the WD at the end of Germany

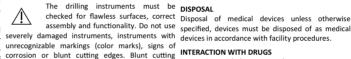
particles. To avoid corrosion, pay special attention to Proof of the basic suitability of the products for minimum 20 minutes the absence of chemicals in the immediate vicinity. effective manual cleaning and disinfection was

provided by an independent, officially accredited France Drilling instruments that have been used and recognized (§ 19 MPDG) test laboratory using minimum 5 minutes at 134 °C (273 °F) if required for the pre-cleaning and cleaning agent Cidezyme / prion inactivation Sterilization time 18 minutes Enzol and the disinfectant Cidex OPA (Johnson & Other Countries Johnson GmbH, Norderstedt). The procedure described above was taken into account

### FUNCTIONAL TESTING AND PACKAGING

The products must be checked for cleanliness and functionality after reprocessing and before sterilization. If necessary, the reprocessing process

- Clearance)
- suitable for steam sterilization (temperature resistance up to at least 138 °C (280 °F) sufficient steam permeability)
- Sufficient protection of the products or sterilization packaging against mechanical damage
- Regular maintenance in accordance with the manufacturer's specifications (sterilization container)
- of the sterilization container must not be exceeded.





instruments must not be reground.









# After reprocessing and sterilization. check the color markings!

# STERILIZATION

- that, if thermal disinfection is not used, a suitable Only the sterilization methods listed below may be disinfectant with tested efficacy (e.g. VAH / DGHM or used for sterilization; other sterilization methods are

# Steam sterilization

- fractionated vacuum process (with sufficient product drying)
- Steam sterilizer according to DIN EN 13060/DIN EN 285 or ANSI AAMI ST79 (for USA: FDA-
- validated according to DIN EN ISO 17665 (valid IQ/OQ (picking) and product-specific nerformance assessment (PO))
- maximum sterilization temperature 134 °C (273 °F; plus tolerance according to DIN EN ISO 17665)

Sterilization time (exposure time at the sterilization temperature):

minimum 5 minutes at 134 °C (273 °F)

minimum 4 minutes at 132 °C (270 °F), drying time

minimum 5 minutes at 132 °C (270 °F) / 134 °C (273

### PRODUCT LIFE

Anton Hipp recommends using new drilling instruments for every procedure. To protect against heat necrosis, always rinse cutting tools with cooling liquid.

Wear, use-related wear or accidental cutting in metal (e.g. in tissue protection sleeves or metal forceps) shorten the service life of the drilling instruments. A binding statement on the expected service life of drilling instruments can therefore not be made

Reuse of blunt or defective instruments may cause necrosis due to excessive heat generation. Drilling, milling with a defective drilling instrument may be inaccurate and the osteosynthesis correspondingly unsatisfactory. Always carefully check the functionality of the instruments after cleaning. If necessary, replace instruments that are not in perfect working order

Blunt drilling instruments must not be reground.

assembly and functionality. Do not use specified, devices must be disposed of as medical

### INTERACTION WITH DRUGS

Interactions with drugs are not known.

### DISCLAIMERS / WARRANTY

The products are made of high quality materials and are subjected to quality control before delivery. However, should any defects occur, please contact our service department. However, we cannot guarantee that the products are suitable for the respective operation. This must be determined by the user himself. We cannot accept any liability for accidental or resulting damage.

Any product liability expires,

In case of damage due to improper storage. handling, cleaning and / or sterilization

in case of faulty cleaning and sterilization in case of non-observance of these instructions

### SYMBOLIC



Manufacturer



Date of manifacture



Non-steril



Do not reuse



Batch designation



Catalog number

Serial number



Store dry



Protect from sunlight



Prescription Attention



Observe instruction for use



CE marking with number of the Notified Body



Medical product