

Surgical Kit System

Instructions For Use (IFU)

Version IFU I20-0002-1801EN
2018-09-24



V.IFU I20-0002-1801EN

Instructions for use - Surgical Kit System



CAUTION: FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A DENTIST !

INTENDED USE:

Drills are intended for use in the dental implant surgery application preparing the jawbone for a dental implant. Products are compatible for use with existing surgical accessories for routine Dental surgery. Ritter Implants drills and tools are intended for use only by certified dentists and authorized persons with specific implant training. Ritter surgical kits are used for two-stage and one-piece implantation processes. The tools and drills are made of different alloys of stainless steel. They are supplied with the understanding that only Ritter Implants surgical instruments, which complement each implant, will be used during surgery. If these conditions are not met, the manufacturer will refuse to accept responsibility.

INDICATIONS FOR USE:

The Ritter Implants are intended for simple or multiple replacements of lost teeth and provide a way to attach the prosthetic pieces in totally or partially edentulous patients.

INSTRUCTIONS FOR MAINTAINANCE OF Dental tools PRIOR TO FIRST-TIME SURGICAL USE:

Stage 1:

Light cleaning and rinsing - dental tools should be dipped in detergent, rinsed with distilled water, and dried immediately and meticulously.

Stage 2: Sterilization - Drills should be sterilized in an autoclave between 134° -137° C/275° F for 18 minutes.

Stage 3: During Use - dental tools should be soaked in a sterile saline solution until the cleaning stage.

INSTRUCTIONS FOR CLEANING AND STORAGE OF Dental tools AFTER USE

Stage 1: Cleaning - Dental tools should be brushed with detergent to remove any remaining blood or tissue.

Stage 2: Ultrasonic Cleaning - Dental tools should be cleaned in an ultrasonic bath with appropriate detergent- (Note: During ultrasonic cleaning, contact between dental tools should be avoided)

Stage 3: Rinsing - Dental tools should be rinsed, preferably with distilled water, and dried immediately and meticulously.

Stage 4: Lubrication (required if more than 4 weeks of storage is expected) - Dental tools should be soaked for 10 seconds in dental oil, and then removed from solution and left to dry for 30 seconds without rinsing or towel drying, and then placed in surgical kit.

Stage 5: Sterilization - Dental tools should be sterilized in an autoclave between 134° -137° C/275° F for 18minutes.

Stage 6: Storage/Use - At this stage, kits are ready for long-term storage; they can be used immediately upon opening the kit.

RECOMMENDATIONS:

- Drills should be used for a maximum of 6-10 cycles.
- Sterilized water should be used in order to avoid surface stains.

Ritter Implants surgical kits are designed for the surgical protocol and procedure of the following implant categories:



SB/LA Spiral Implant
SNAP & NL-SNAP

QSI & NL-QSI
Ri-Quadro Spiral
Implant

Instructions for use - Surgical Kit System



CAUTION: BEFORE USING TOOLS AND DRILLS THE IMPLANTOLOGIST MUST HAVE CLARIFIED THE CLINICAL CASE .

GUIDE TO CHOOSE THE PROPER IMPLANT:

After making a preliminary diagnosis, an X-ray and/ or CT, in conjunction with a transparency that displays the necessary measurements, should be used to determine the dimensions of the implant suitable for the site in question. As a general rule, the widest and longest implant suitable for a particular site (density and dimensions of bone, dimensions of gums) should be used, in order for rehabilitation to be most effective. Another general rule is that implant and abutment combinations offer the greatest range of rehabilitation options. The use of the integrated implant offers some advantages that appeal to certain patients, and are appropriate for them. The choice of an integrated implant/abutment (one-piece) requires immediate loading and rehabilitation, and cementing of the restoration device. There is no affixing of the abutment by screw, and no choice as to the structure of the abutment. That choice is made beforehand. In a two-stage implantation, if there is a need for immediate loading, the spiral conical implant (QSI), which has good retention from the outset, should be used. In the lower jaw in Type 1 hard bones the SB/LA SNAP, QSI implants are suitable. In the front, single-rooted teeth and in the upper teeth between tooth 4 and tooth 7, where the sinus cavity is found, wide conical implants are recommended in order to reduce pressure on the base of the sinus. When the bone is very wide, and the sinus cavity is distant, any implant can be used. When the bone is narrow, a wide implant should not be used. Following extraction, if the bone is good, a spiral implant (QSI or SNAP), or immediate loading, is appropriate.

SB/LA Spiral Implant (SNAP), QSI & NL-QSI:

A Spiral conical implant, with deep, wide gap threads, especially high-sharp-thread edges and a grooved neck. Its advantages are: the deep threads increase the surface area, and hence improve the retention of the implant; while the implant is inserted by rotations into the bone, the sharp thread edges generate their path in the bone tissue. As deep as the implant is inserted the bone becomes more condense, due to the conical structure of the implant: excellent initial retention.



DRILLING PROCEDURE:

ALL IMPLANTS: After good surgical exposure of the bony surface, the position for the implant should be determined and a guide hole should be made using our round-head bur, taken down into the cortical bone to the level of the neck beneath the bur head. Do not attempt to drill deeper with the round bur using the guidehole for position; the color-coded drill bits will be utilized to drill the hole to the desired depth. The color coding on the bits indicates the diameter of the bit. Almost all drilling should commence using the 2.0 millimeter bit or lance drill. The bits are used ingraduated order to slowly increase the diameter of the implant hole until the desired diameter is reached. This will allow safe progression and decrease trauma to the surrounding bone structures. The accurate depth of the hole is determined by the length of each particular implant and is indicated by the depth lines around each bit, in order to allow good position of the implant in the bone so that its end is flush with the alveolar ridge.

QSI/SNAP- PROTOCOL:

The best conical hole for the planned conical implant is achieved by using the appointed conical drilling bit. All bits, with the exception of the final regular bit, are inserted in turn till the required depthline reaches the alveolar ridge. The final regular bit is inserted gently to a depth of only the necessary situation. The drilling protocols of tapered holes are presented in Table A. Ritter conical drills CDEP have a Stopper-system included which assures correct drilling depth, preventing drilling deeper than required.

The most efficient method of drilling has been found to be achieved through the use of conical drilling bits. We highly recommend that our customers acquire the conical drilling bits. The conical drilling bit for each diameter is suitable for every implant length in that diameter. Where the conical drilling bits are not available, it is possible to achieve the desired tapering of the hole by re-drilling with two slighter larger bits taken down only to a partial depth. The first bit, slightly larger than the bit used to reach the desired depth of the implant hole, drills only 2/3 of the total depth, and the second, slightly larger than the first, drills only 1/3 of the depth, thus creating a staged or conical tapered hole.

Table A: QSI and SB/LA Spiral Implants -SNAP-						
Implant Diameter	NL-3	NL-3.3	3.75	4.2	5.0	6.0
Color Code	white	red	blue	green	black	brown
Preceding regular drills CDEP	--	1	1	2	3	4
Conical Bit width CDEP	--	2.8	3.2	3.2-3.65	3.2-4.5	3.2-5.4
Final regular drill with max. depth / accordingly to the length of the implant	2.5	2.8	3.2	3.65	4.5	5.4



TECHNICAL INFORMATION: Procedure for Ritter Implants **angled abutments**.

NOTE: During implant placement, it is recommended to orient the flat of the internal hex of the implant to be opposite the angle correction. The pre-attached multi-purpose fixture mount can be used to index the internal hex of the implant. The flat side on the wall of the fixture mount will fine up with the flat side of the internal hex. NOTE: To put the abutment in the mouth use the HHDA abutment driver. The driver should be hand tightened (max. 30 Ncm) to the abutment to confirm adequate attachment of the tool to the abutment.

Use appropriate abutments and angulated components that correspond to the implant system being restored.

1. Remove the angled abutment from the abutment packaging in a sterile field. Hand tighten the abutment with the HHDA Abutment Hand Driver to confirm the attachment to the cone of the abutment. **2.** Thread dental floss through nose hole in the HHDA top. Utilizing the abutment Driver, deliver the abutment to the mouth. Aligning the angled abutment in the appropriate orientation for desired angulation correction. **3.** Use 1.27mm [0.50"] Hex Driver HHDA to hand tighten (max. 30 Ncm) the abutment retaining screw. A contra-angle hand piece with a 1.27mm MMA driver can also be used for initial delivery. The long MMA driver (MMA-28) must be used if the abutment delivery tool is attached to the abutment. The standard MMA driver (MMA-22) can be used if the abutment delivery tool is removed from the abutment. **4.** Verify with periapical radiograph that the abutment is seated completely into the implant and has engaged the internal hexagon. **5.** Tighten the abutment retaining screw to 30 Ncm with a calibrated torque wrench. The Torque Ratchet TRU can be used with the abutment driver for ratchet RDA-L, removed from the abutment can be used RDA-M. **6.** If the abutments will not be immediately restored with a provisional or final restoration, it is recommended to place the abutment titanium Healing Cap. (HC-xx) to prevent irritation of the soft tissue and to prevent the ingress of material the screw access of the abutment cone. NOTE: More force will cause a break or malfunction of the ratchet head.



CAUTION: As the lance drills have no stopper-system included, the drilling process must be done carefully in order to drill not deeper than 8mm!

**CAUTION:**

All conical drill bits are characterized by drilling through the bone along the entire length of the drill that is positioned inside the gums. This is as opposed to the regular drill bit, which only drills through the bone using the frontal lower tip. The same time, its side helical blades slide along the wall of the hole without any significant radial forces. The use of conical drill bits causes extreme radial pressure, creating the necessity for gentle, probing drilling instead of constant drilling. This gradual drilling should include the use of a low torque.

The maximum rpm (rounds per minute) is dependent upon both the type of one and the drilling diameter. Do not exceed 450 rpm and torque of 35 Ncm. Drilling should be accompanied by intensive irrigation. First you must drill with drill bits in a slow gradient - first the 2.0mm bit, then 2.8mm bit and so on as necessary. The conical drill bit is only to be used at the end of the drilling process so that only a small amount of bone will have a quicksand effect. The hard bone drills may be used to widen the crestal bone at the end of the drilling sequence (CD 3.75-6.0).

EXAMPLE: When desired to insert a 6.0mm implant one must use the final regular drill CDEP-5.4 for the 6.0mm implant. Pausing periodically during the drilling allows both the blade and the bone to cool down. It also allows for the removal of bone fragments as well as the control necessary at the appropriate rpm. The drill should be moved up and down during drilling to prevent too much heat and pressure or even microsis. (Branemark Bone Dancing Method)

NOTE: Drills should not be used more than 6-10 cycles. They have to be replaced after their life-time cycle



Use of torque ratchet:

Max. loading with hardened RA-shanks: 80 Ncm
Max. loading with non hardened RA-shanks: 40 Ncm



GB - Universal torque ratchet – instruction manual

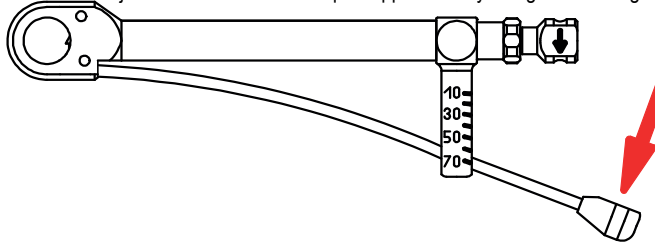


1. Intended use

Torque ratchet for inserting and removing dental screws with a defined torque. The torque function can be "blocked"; the blocked position enables greater torque to be transferred when placing implants, and allows connections to be loosened. The torque ratchet may only be used by trained dental specialists.

2. Handling

Prosthesis adjustment – function of torque: Application by using the bending rod. The torque will be read by means of the bending rod on the scale.

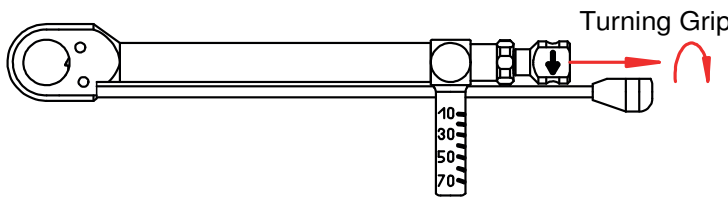


The requested torque will be achieved when the middle of the bending rod will be covered with the appropriate scale graduation mark.

ATTENTION: Reading should always be done directly from the top.

When the desired torque has been achieved, please relieve the bending rod again. Then, the bending rod will spring back into the starting position.

Surgical adjustment – blocked function: Use the torque without the bending rod.
Attention: The torque should not be charged over 100 Ncm.



3. Switching of the direction of rotation:

- pull the turning grip
- turn half way the turning grip
- release the turning grip

4. Exchanging of the tools

Pull the turning grip, then the tools can be taken out i.e. can be used. Then release the turning grip. Now, the tools can be used from both sides. If necessary, switch over the direction of rotation.

5. Preparation

5.1 Treatment instructions/warnings

To avoid damage, do not use metal brushes or cleaning sponges.

Only use cleaning and disinfectant solutions with a pH value of between 4.5 and 10. Follow the manufacturer's instructions (e.g., intended purpose, dosage, exposure period and replacement of the solution).

The ratchet is not sterile when delivered and must be cleaned and sterilised before it is used.

When using several torque ratchets, do not interchange the individual parts. Each individual part belongs to the respective instrument.

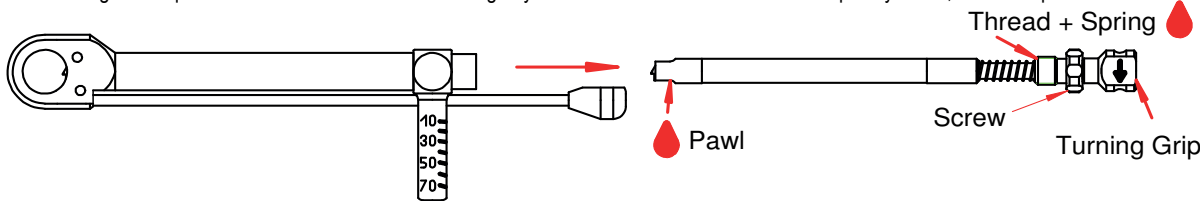
Damaged products must go through the reprocessing process before being returned for repair.

5.2 Restriction regarding reparation

The end of the product's service life is normally determined by wear and damage caused during use and by incorrect handling.

5.3 Preparations for cleaning

For cleaning the torque can be disassembled without using any tool. Please unscrew the screw completely. Then, the entire pawl can be taken out.



Clean the parts under cold running water using a soft brush to remove all visible soiling. Ensure that all openings and cavities are thoroughly rinsed. Do not allow blood and other soiling to dry on.


5.4 Cleaning and disinfection: Manual

Ultrasonic cleaning bath: Place the parts into a wire basket and ensure that the parts do not touch, in order to avoid acoustic shadows. Clean for 3 minutes in an ultrasonic cleaning bath (35-40 kHz) at a temperature of 40°-50°C with an enzymatic cleaning solution. Ensure that the parts are completely immersed in the water, without the formation of any bubbles. Rinse with clear, cold water; if possible, use deionised water. Dry the parts with a lint-free cloth and blow dry with compressed air.

Securely apply the cleaned ratchet parts to the carrier. Do not overload the carrier. Start the program. After rinsing, chemical cleaning starts at 40°-60°C. Residues from the cleaning process must be reliably removed in the subsequent rinsing phase. Avoid damage to the material from neutralising reagents. Thermal disinfection is achieved at 90°-95°C. The subsequent treatment with deionised water is followed by adequate drying. Remove the ratchet parts from the device immediately after the program ends.

5.6 Maintenance, inspection and testing

Allow the parts to cool to room temperature and visually inspect them for residues of proteins and other soiling. If necessary, repeat the preparation steps.

Lightly lubricate the areas marked with  using contra-angle handpiece oil. Assemble ratchet and carry out functional test.

5.7 Sterilisation packaging

Place the ratchet into packaging suitable for sterilisation according to ISO 11607 and EN 868. The bag must be large enough for the instrument. Closures must not be under tension.

5.8 Sterilisation

Method: Fractionated pre-vacuum process in accordance with ISO 17665

Temperature: heating to 134°C, max. 137°C

Pressure: 3 pre-vacuum phases with a minimum pressure of 60 millibars

Holding period: 5 minutes

Drying time: at least 10 minutes

After sterilisation, inspect the sterile packaging for damage and check sterilisation indicators.

5.9 Place of use

Immediately after use, the products must put in cold water (<40 ° C). Use no hot water (> 40 ° C) or cleaning agents, as this may cause fixation of residues on the product (risk of protein coagulation (denaturation)), which can affect the success of the subsequent processing steps.

6. Storage

Store the ratchet at a moderate temperature, and in a dry, dust-free, well-ventilated place, in which there is no corrosive steam.

7. Shipping

The ratchet must be cleaned and sterilised before shipping, otherwise the product will be returned.



„CAUTION: please make sure that the screw for fixation of the “direction turning grip” is entirely closed and tightened till the end. If this is not applicable the pawl will not grip the tool properly and tools may fall out or the ratchet head will turn through.“



Instructions for use - Surgical Kit System

Class IIa (CE1023) categorie:

Professional Kit: RIBEU-PE

Professional Kit USA Narrow Line: NL-RIBUS-PE

Professional Kit USA: RIBUS-PE

Starter Kit: RIBUS-SE

Class I (CE) categorie:

Prosthetic Kit: RIB-PROS

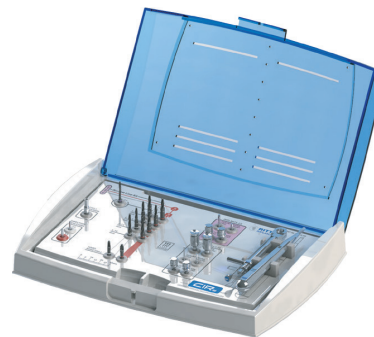
RIBUS-SE



RIBUS-PE



RIBEU-PE



NL-RIBUS-PE



RIB-PROS

The Kits are consisting of the following products and their specific usage:

ITEM NO. / TOOL DRILL	DESCRIPTION	FUNCTION - how to work / used by
CDEP drills all Diameter and lenght	Conical Drill with integrated Stopper-System function	adapted to handpiece with SD-coupling / surgical motor, for drilling the implant hole / dentist
MMIB / NL-MMIB	Motor Mount for Implant with ball friction to hold implant normal and narrow line	for insertion / loading the implant to the mouth attached with SD coupling to handpiece/surgical motor/ dentist
RDI / NL- RDI Long and short	Implant driver with head for ratchet normal and narrow line	For insertion of implant with ratchet/ dentist
HHDA / Long and short	Hand Hex driver for abutments	for fixing / assembling abutments by hand torque, Laboratory and dentist
MMA / Long and short	Motor Mount for abutments	for fixing / assembling abutments by motor / Laboratory and dentist
DEX	Drill extender	extends the length, used with all items with SD coupling head for handpiece / Laboratory and dentist
CD drills	Hard bone drills	drills for widening the crestal or hard bone / dentist
DEP drills	Parallel drills, non conical	adapted to handpiece with SD-coupling / surgical motor, for drilling the implant hole / dentist
DELD	Long thin pilot drill	first drill to initiate the drilling process
DP	Direction pins	for improving the depth and parallelity of the hole/ drilled angle / dentist
TRU	Ratchet / with torque measurement	for fixing all items with ratchet head / Laboratory and dentist
IDP	Implant Deep Probe	for improving the depth of the drilled cavity

Correlation of tools Purpose and use of



For torque ratchet or motors:
 Max. loading with hardened RA-shanks: 80 Ncm
 Max. loading with non hardened RA-shanks: 40 Ncm



Implants

Motor Mount for Implant Self Loading -Hex 2.0
 NL-MMIB-28
 NL-MMIB-22

Motor Mount for Implant Self Loading -Hex 2.43
 MMIB-28
 MMIB-22

MMIB, Motormount with ball friction hold and SD-coupling plug for catching and inserting the implant with a contra angled handpiece / motor.

Implants

Implant ratchet drivers with heads for the use with the ratchets.

Ratchet Driver for Implant Hex 2.0
 NL-RDI-L (long)
 NL-RDI-M (short)

Ratchet Driver for Implant Hex 2.43
 RDI-L (long)
 RDI-M (short)

Screw Driver for Implant NL-Hex-2.0 NL-SDH

Drills

Drill extension DEX/DIX to extend the drills.

Drill Extender for external irrigation drills DEX

Abutments and screws

Abutment Ratchet drivers with heads for the use with the ratchet, by hand or with SD-coupling for the use with a contra angled handpiece / motor. Fixation of Abutment and CSI coverscrews.

Hand Hex Driver for prosthetics 1.29 Hex
 HHDA (long)
 HHDA-S (short)

Motor Mount for Prosthetics 1.29 Hex
 MMA-28
 MMA-22

Ratchet Driver for Prosthetics 1.29 Hex
 RDA-L (long)
 RDA-M (short)

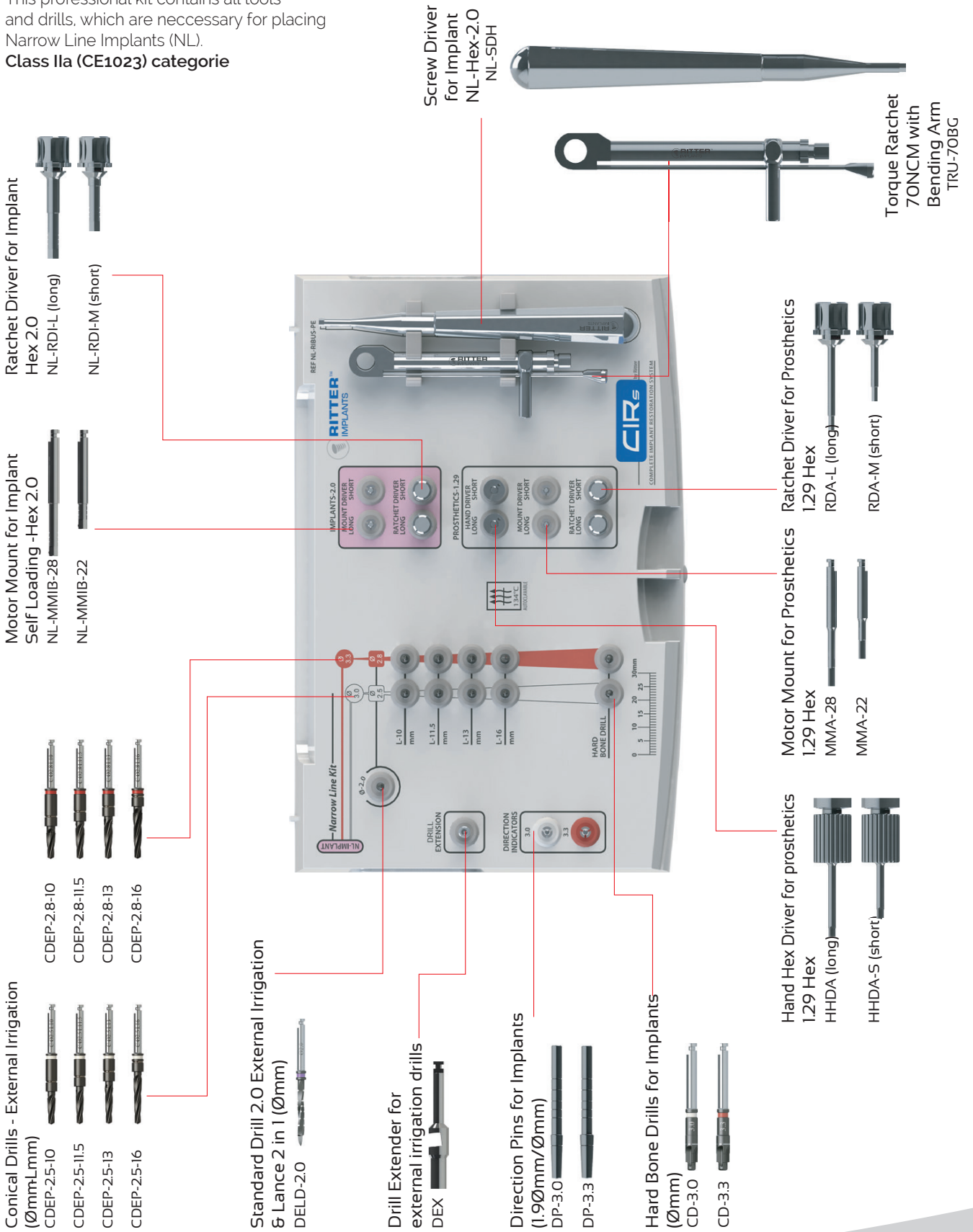
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Professional Kit USA Narrow Line: NL-RIBUS-PE

This professional kit contains all tools and drills, which are necessary for placing Narrow Line Implants (NL).
Class IIa (CE1023) categorie

VIFU I20-0002-1801EN



Instructions for use - Surgical Kit System

Professional Kit: RIBEU-PE

This professional kit contains all tools and drills, which are necessary for placing Implants with all diameters, incl. Narrow Line (NL).
Class IIa (CE1023) categorie

V.IFU I20-0002-1801EN

Conical Drills - External Irrigation (Ømm/Lmm)

- CDEP-4.5-6
- CDEP-4.5-8
- CDEP-4.5-10
- CDEP-4.5-11.5
- CDEP-4.5-13
- CDEP-4.5-16
- CDEP-3.65-6
- CDEP-3.65-8
- CDEP-3.65-10
- CDEP-3.65-11.5
- CDEP-3.65-13
- CDEP-3.65-16
- CDEP-3.2-6
- CDEP-3.2-8
- CDEP-3.2-10
- CDEP-3.2-11.5
- CDEP-3.2-13
- CDEP-3.2-16
- CDEP-2.8-10
- CDEP-2.8-11.5
- CDEP-2.8-13
- CDEP-2.8-16
- CDEP-2.5-10
- CDEP-2.5-11.5
- CDEP-2.5-13
- CDEP-2.5-16

Motor Mount for Implant Self Loading -Hex 2.0

- NL-MMIB-28
- NL-MMIB-22

Ratchet Driver for Implant Hex 2.0

- NL-RDI-L (long)
- NL-RDI-M (short)

Motor Mount for Implant Self Loading -Hex 2.43

- MMIB-28
- MMIB-22

Ratchet Driver for Implant Hex 2.43

- RDI-L (long)
- RDI-M (short)

Hand Hex Driver for prosthetics 1.29 Hex

- HHDA (long)
- HHDA-S (short)

Motor Mount for Prosthetics 1.29 Hex

- MMA-28
- MMA-22

Ratchet Driver for Prosthetics 1.29 Hex

- RDA-L (long)
- RDA-M (short)

Direction Pins for Implants (1.9Ømm/Ømm)

- DP-3.0
- DP-3.3
- DP-3.75
- DP-4.2
- DP-5.0
- DP-6.0

Torque Ratchet 70NCM with Bending Arm TRU-70BC

Hard Bone Drills for Implants (Ømm)

- CD-3.0
- CD-3.3
- CD-3.75
- CD-4.2
- CD-5.0

Drill Extender for external irrigation drills DEX

- Standard Drill 2.0 External Irrigation & Lance 2 in 1 (Ømm)
- DELD-2.0
- Standard Drill 2.8 External Irrigation (Ømm-Lmm)
- DEP-2.8-16

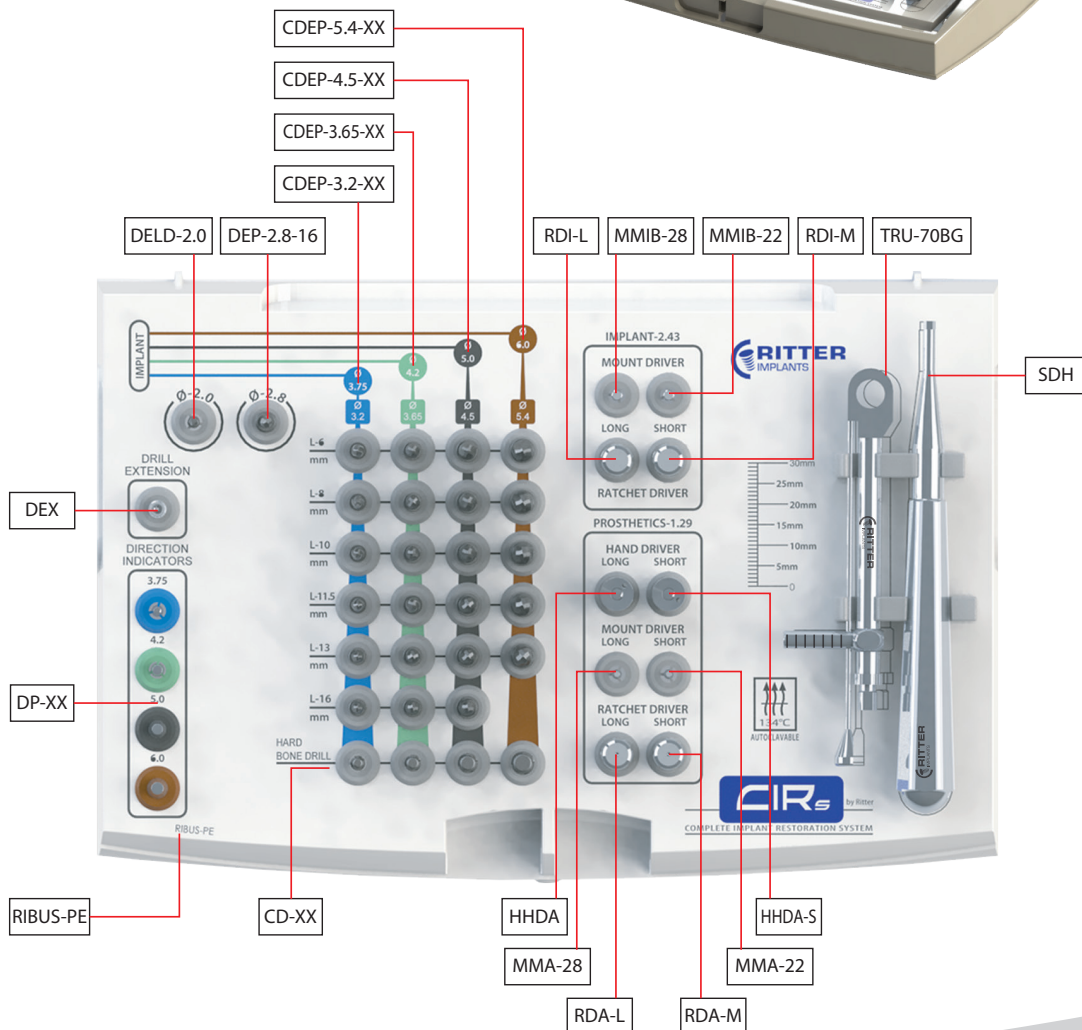
Instructions for use - Surgical Kit System

Professional Kit USA: RIBUS-PE

This professional kit contains all tools and drills, which are necessary for placing normal platform Implants \varnothing 3.75- 6 mm
Class IIa (CE1023) categorie

Surgical Kit CIR's System - Complete set Professional / External Irrigation Drills

REF RIBUS-PE



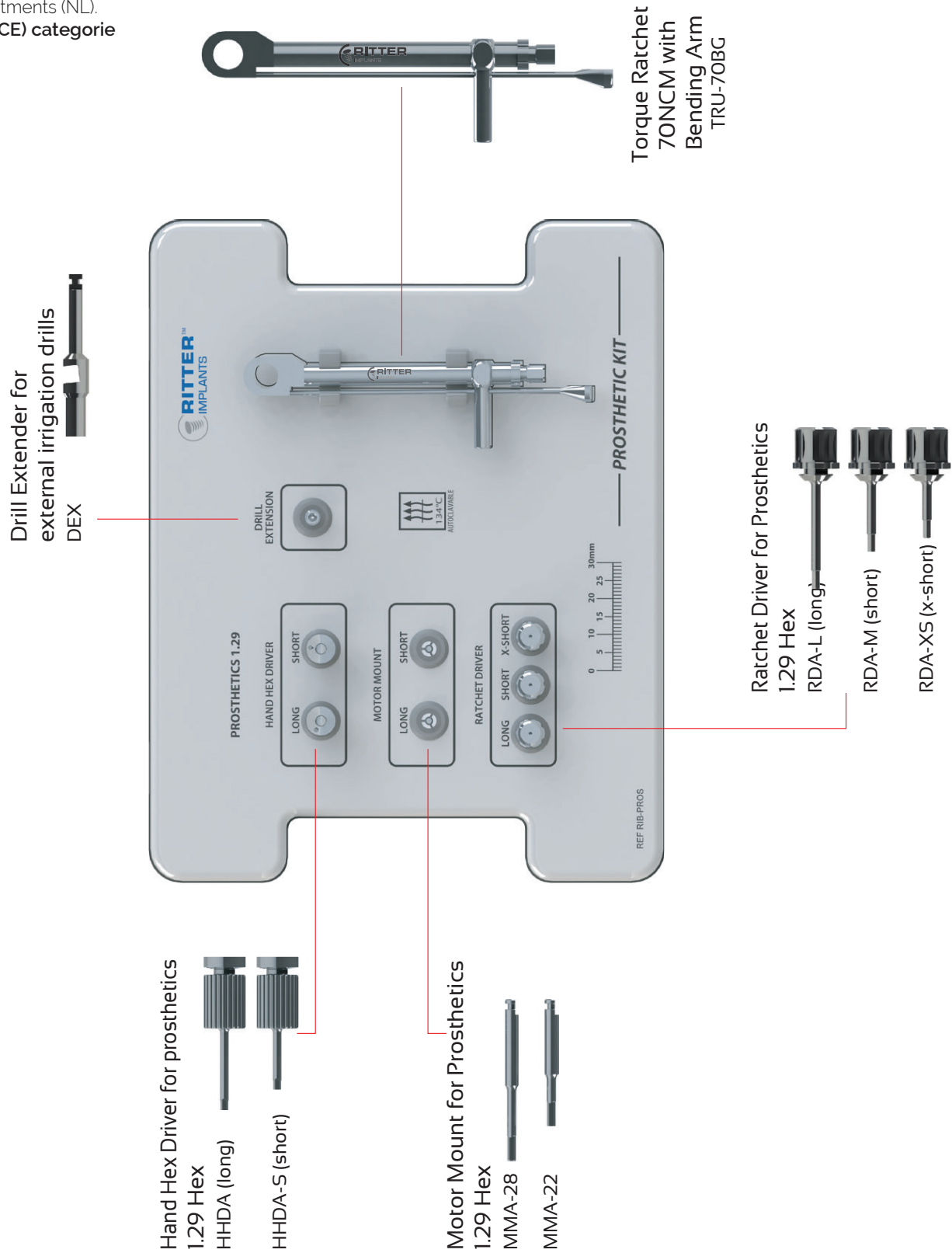
Instructions for use - Surgical Kit System

Prosthetic Kit: RIB-PROS

This tool kit contains all tools and mounts, which are necessary for the laboratory works, incl. assembling Narrow Line abutments (NL).

Class I (CE) categorie

V.IFU 120-0002-1801EN



Hand Hex Driver for prosthetics 1.29 Hex
 HHDA (long)
 HHDA-S (short)

Motor Mount for Prosthetics 1.29 Hex
 MMA-28
 MMA-22

Drill Extender for external irrigation drills DEX

Ratchet Driver for Prosthetics 1.29 Hex
 RDA-L (long)
 RDA-M (short)
 RDA-XS (x-short)

Torque Ratchet 70NCM with Bending Arm TRU-70BG

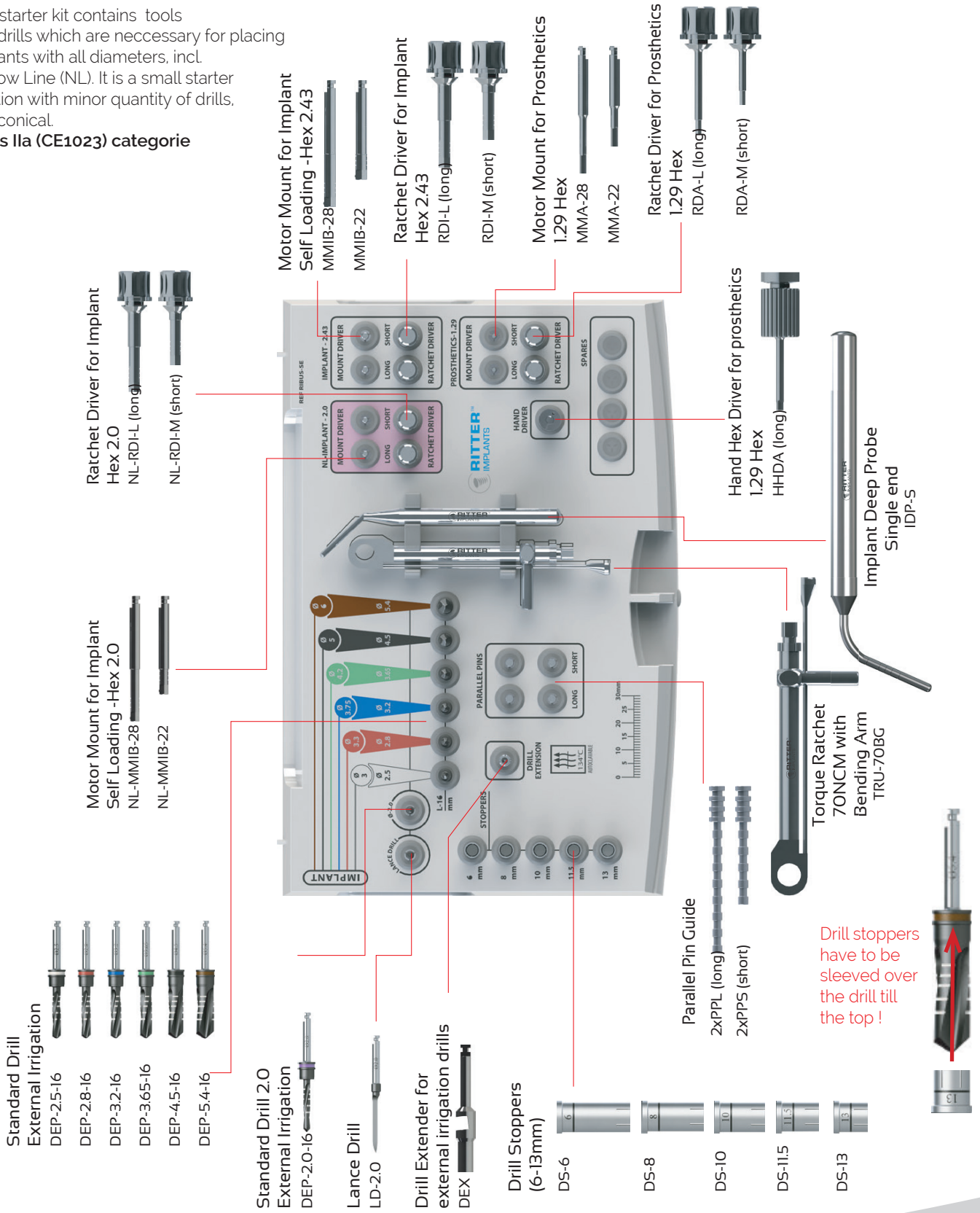
Instructions for use - Surgical Kit System



Starter Kit: RIBUS-SE

This starter kit contains tools and drills which are necessary for placing Implants with all diameters, incl. Narrow Line (NL). It is a small starter solution with minor quantity of drills, non conical.
Class IIa (CE1023) categorie

VIFU I20-0002-1801EN



Use of Starter Kit with straight - non conical - drills

The Starter Kit is equipped with non conicals drills DEP instead of conical drills CDEP, which are placed in the Professional Kit. It is recommended to use the Lance Drill LD or the DEO 2.0 drill prior to the next or final drill.

Implant Diameter	NL-3	NL-3.3	3.75	4.2	5.0	6.0
Color Code	white	red	blue	green	black	brown
Preceding regular drills DEP	LD / DEP 2.0	1	1	2	3	4
Bit width DEP	2.0	2.8	3.2	3.2-3.65	3.2-4.5	3.2-5.4
Final regular drill with max. depth / accordingly to the length of the implant	2.5	2.8	3.2	3.65	4.5	5.4

CLEANING/STERILIZATION INFORMATION:

Disinfection and sterilization procedures should conform to OSHA or local guidelines for blood borne pathogens. Clinically contaminated implants should not be cleaned and resterilized for reuse under any circumstances.

CLEANING: Use the following guidelines for cleaning products as drills, instruments and components: Disassemble multi-piece components, if applicable. Rinse with cool-to-lukewarm water for two-and-one-half minutes. For drills, flush the drill lumen with water to remove any remaining debris. For all parts place in an ultrasonic cleaner with an enzymatic detergent diluted with tap water per the manufacturer's guidelines. Ultra-Sonicate for 10 minutes. Rinse with tap water for three minutes. Kits, Trays, and silicones - Remove all parts and inserts from the tray. Clean parts per the above instructions. Thoroughly rinse the kits under running tap water to remove all visible soil. Use a soft bristle brush to clean the kits until all visible soil is removed. A syringe or pipe cleaner may be used to aid in the rinsing. Assure that all hard to reach areas are accessed. After the rinsing, prepare the enzymatic detergent following the manufacturer's specifications. Fully immerse the kit in the prepared detergent and allow the kit to soak in the detergent for a minimum of one minute. Following the soak use a damp cloth and/or a soft bristle brush to wipe and remove any excess debris/soil from each component. A syringe or a pipe cleaner may be used to aid in the cleaning. Rinse the kits with lukewarm tap water to eliminate all residual enzymes and detergent, thoroughly for a minimum of three minutes. Dry the components. Reassemble the contents of the kit and follow the guidelines for sterilization.










NOTE: This procedure should be performed after an instrument used during a surgery comes into contact with the surgical tray or prosthetic tray.

STERILIZATION:

Individual parts should be placed in appropriate autoclave or dry heat pouch prior to sterilization. When sterilizing parts within a kit, parts should be placed in appropriate locations and kit should be wrapped in sterilization wrap. The following sterilization parameters (method, time and temperature) are required to achieve a 10⁻⁶ sterile-assurance level (SAL). Local or national specifications should be followed where steam sterilization requirements are stricter or more conservative than those listed in the table. Exceeding these sterilization parameters may result in damage to plastic components. Verify the calibration of your unit to ensure recommended temperatures are not being exceeded. To ensure autoclave is performing effective, periodic use of biologic indicators should be considered. Chemclave sterilization is NOT recommended for any Ritter Implants Dental products.

Tools, drills and parts individually pouched	Cycle Type	Temperature	Exposure time in Minutes	Drying Time in Minutes (only for kits)
	Gravity (steam)	121°C/250°F	40	--
Tools, drills and parts individually pouched or placed in surgical kit	Gravity (steam)	121°C/250°F	80	30
	Pre-Vacuum (steam)	132°C/270°F	30	30
	Pre-Vacuum (steam)	134°C/273°F	18	30

Symbols may be used on some international package labeling for easy identification.

Symbol	Description
	Caution
	Consult instructions for use
	Catalogue number
	Batch code
	Manufacturer
	CE-Mark with number of Notified Body
	Symbol for "Use by Prescription only"
	Non-Sterile
	CE-Mark

Ask for more Information and coming events

Distributor · 4310 West Avenue · San Antonio,
Texas 78213 · Phone 1.855.807.8111

Manufacturer:

Ritter Implants GmbH & Co. KG
Freiburger Straße 45 · 88400 Biberach ·
Germany Phone 0049 7351. 52 925-10
www.ritterimplants.com