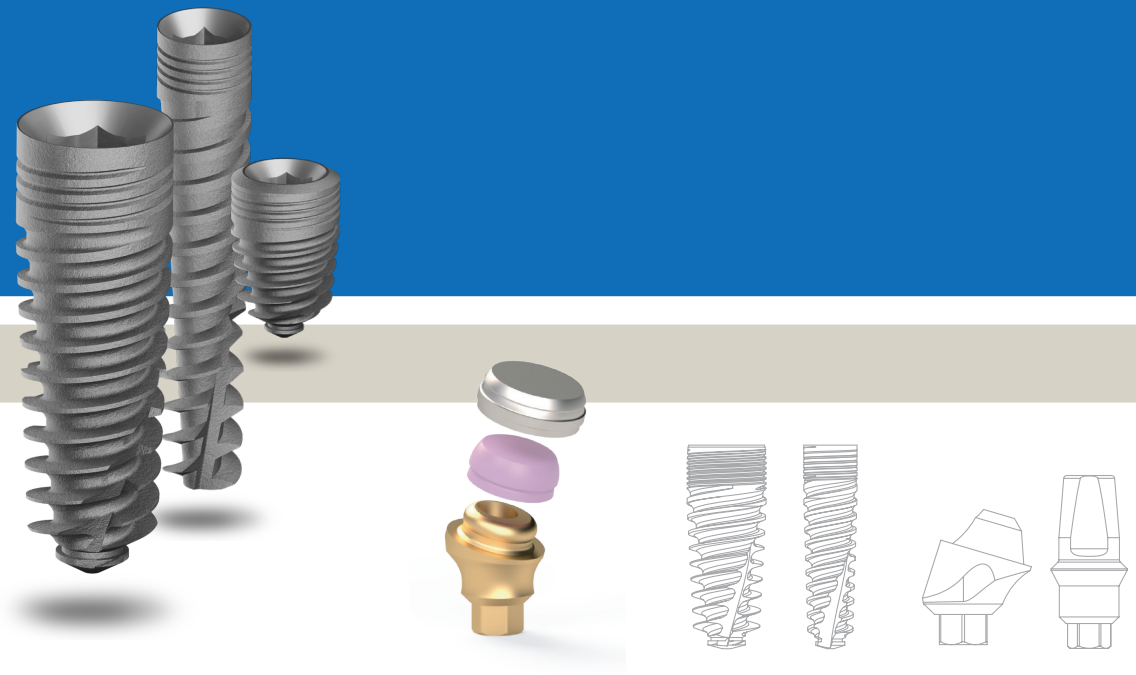
SABLE INDUSTRIES INC.

RITTER™ IMPLANTS

# Reasons you need Ritter Implants



EXCLUSIVE DISTRIBUTOR Canada AUTHORIZED

Ritter Implants
Made in GERMANY

Proudly distributed
in Canada

# The Reasons part 1

PAGE 6

## Reason#1

Ritter Implants are made of the strongest "**Grade 5" Titanium** alloy which goes through a special **sandblasting and etching process.**

PAGE 8

## Reason#2

**All Ritter Implants include a** Cover Screw.

PAGE 8

## Reason#3

All Ritter Abutments are packaged **including an Abutment Fixation Screw made of Titanium Grade 5.**

PAGE 10

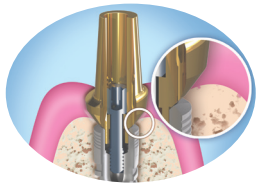
## Reason#4

The overall **superior Implant design** attributes to the Ritter Implants Increased primary stability and High Insertion torque values.

PAGE 11

## Reason#5

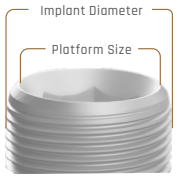
The internal **Hex Connection** (Platform) is the most widely used connection in the industry.



PAGE 12

## Reason#6

Ritter Implants has **two platforms** and a wide range of **Platform Shifting/Switching.**




PAGE 12

## Reason#7

6 mm **short Implants** in the 5 and 6 mm Diameters.

PAGE 13

## Reason#8

Ritter Implants provides a **Narrow Line** with diameters of 3.0/3.3 mm

Ø 3.0 mm

Ø 3.3 mm

PAGE 16

## Reason#9

Ritter Implants Abutments provide an **Emergence Profile** for perfect soft tissue management.


PAGE 20

## Reason#10

Ritter Implants is the only company who provides an **Angled Closed Tray Impression Coping, 15˚/25˚.**

PAGE 21

## Reason#11

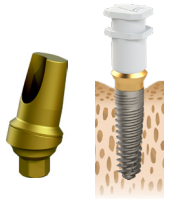
Ritter Implants **Scan Body/Abutment** is a **dual purpose scan body and temporary/provisional abutment.**

RITTER™ IMPLANTS

PAGE 22

## Reason#12

Ritter Implants Pick Up transfer abutments "**PUT**" can not only be used for taking an **impression but also for the final prosthesis made from Titanium Grade 5.** Our "**PUT**" also come in Angled 15˚/25˚, exclusively by Ritter Implants.



PAGE 26

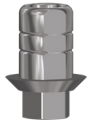
## Reason#13

All Ritter abutment screws are customized to accept **the same screw driver - no matter what platform** or type of abutment.

PAGE 28

## Reason#14

**Ritter's AZA line** are made in both Chromium Cobalt and Titanium and are dual purpose as they can be used as **Castable with Chromium Cobalt or a Tibase made from Titanium.**



PAGE 38

## Reason#15

**Clicq™ Overdenture** is known around the world as an "Equator," offering **a narrower profile** than traditional overdenture abutments.***

PAGE 38

## Reason#16

Clicq™ Overdenture is manufactured in **angled versions encompassing 18˚ and 30˚.** ***


PAGE 38

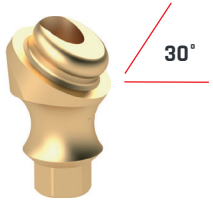
## Reason#17

**Clicq™ Overdenture PLUS** offers a **more traditional wide profile** ***

PAGE 40

## Reason#18

**The Clicq™ overdenture Plus** is manufactured in **angled versions encompassing 18˚ and 30˚.** ***

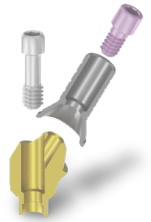



PAGE 44

## Reason#19

SUPER STRONG!

**Ritter Multi Abutments** have been manufactured with a wider stronger M1.6 screw instead of a M1.4 screw that most companies use on Multi unit restorations. **Ritter offers this packaged with very commonly used accessories.**



PAGE 44

## Reason#20

**Ritter Multi Abutments** are also made for its **3.0 and 3.3 Narrow line platform.**

*** All Clicq™ products include all the traditional processing parts.

Ritter Implants
Made in GERMANY

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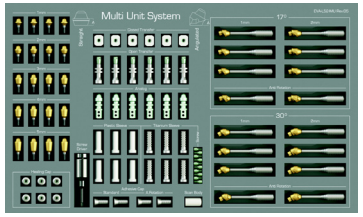
Exclusively distributed through Sable Industries

# The Reasons part 2

PAGE 47

## Reason#21

Multi Unit Kits*: **Special Kit Comes with 36 Abutments** making a complicated procedure much easier!




*** NOTICE: NOT ALL ITEMS OF THIS CATALOG ARE APPROVED FOR SALES IN ALL COUNTRIES. PLEASE CHECK THE IMPORT REGULATIONS OF YOUR TERRITORY.***

PAGE 43

## Reason#22

Ritter Implants were the first to **transition a patient from a removable Denture** to an "all on X" as a removable case can be planned with the **"Angled Clicq™" abutments.**

PAGE 49

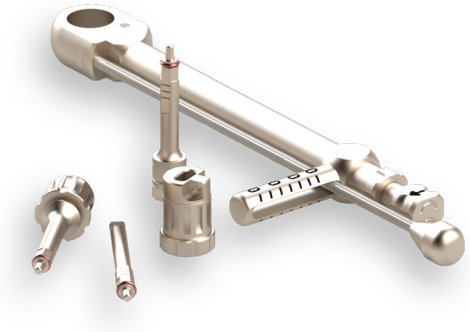
## Reason#23

**All Surgical Kits** contain all basic tools to place **all Ritter Platforms.**

PAGE 49

## Reason#24

**The Compact Surgical Kit** contain all basic tools and drill stop function provided by drill **stopper sleeves** with the tools to place **all Ritter Platforms.**



Compact Kit

PAGE 49

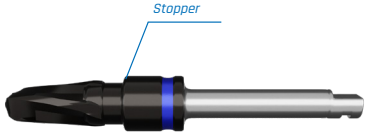
## Reason#25

All Ritter Implants Surgical Kits are equipped with a complete prosthetic selection of the Ratchet, Handpiece, Hand Torque Drivers – **purchase of a separate Prosthetics Kit is unnecessary with Ritter Implants.**

PAGE 51

## Reason#26

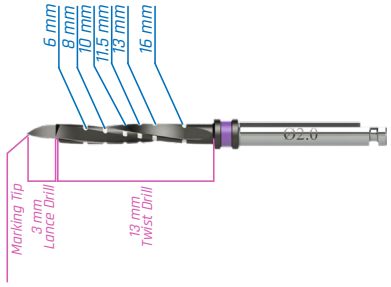
Our Complete Surgical Kit is the easiest and safest Surgical Kit – containing all the items of the Compact kit- except the **Stoppers are built into each drill** – there is a drill for every Implant we produce and more!




PAGE 51

## Reason#27

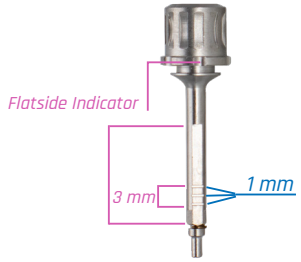
Our Complete Surgical Kit is equipped with our exclusive **3 in 1 Starter/Marking/Lance Drill.**




PAGE 51

## Reason#28

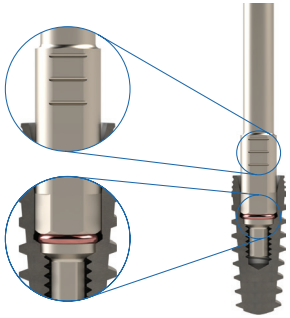
Our Complete Surgical Kit provides implant placing drivers with **special measuring and registration markings on all tools.**




PAGE 51

## Reason#29

**All Implant Drivers are spring loaded** – making it Impossible for an Implant to be dislodged.



PAGE 53

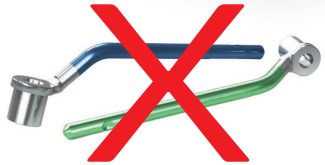
## Reason#30

The **Guided Kit** is one of the Best and Easiest on the Market containing **a drill for every length and diameter.**

PAGE 53

## Reason#31

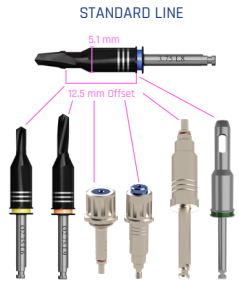
Most guided kits need to use spoons to change drill diameter – **Ritter is spoonless!**



PAGE 53

## Reason#32

Most guided kits need metal sleeves in the guide because they guide the cutting portion of the drill – **Ritter guides the barrel of the drill – and is sleeveless!**




PAGE 53

## Reason#33

The **Torque Ratchet** has a simple Screw to **reverse the direction of turning.**

# Ritter SB/LA method

## The Implant surface – Sand blasted with Large Grit, Acid Etched

## Reason#1

1) There are only two companies who use a certified SB/LA surface treatment. Ritter is one of them.

2) Ritter Implants was the first to develop the SB/LA surface on Grade 5 with KKS in Switzerland and it was proven successful.

3) Titanium Grade 5 with SLA is still the very best surface treatment in the world.

Scan me and watch video about Ritter Implants surface treatment

**Ritter Implants are made of a "Grade 5" Titanium alloy (Ti6AL4VELI: 90 % Titanium, 6 % Aluminum, 4 % Vanadium), which goes through a special sandblasting and etching process.**

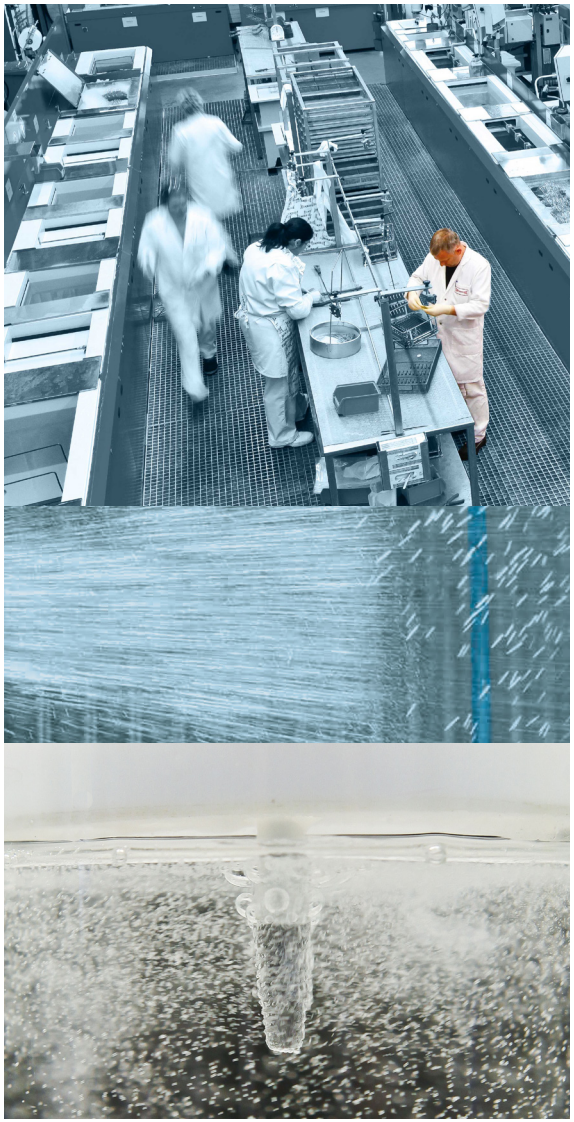
Our method creates large surface differences that allow **strong adsorption of plasma proteins and blood** into the micropores of the implant immediately after insertion.

**Benefits**

- Bone strengthening due to early Implant contact
- Increased stability
- Shortened healing phase
- Higher predictability of the healing process

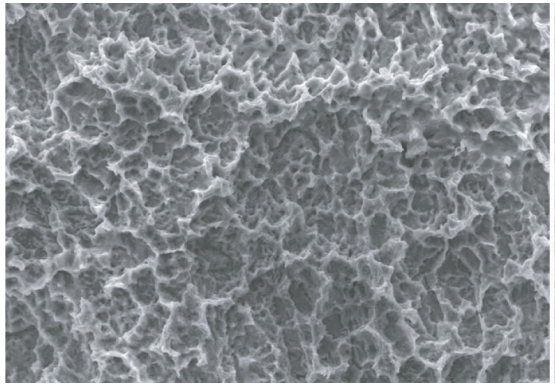
**Corundum sandblasting and acid etching of the implant surface**

- Sandblasting creates a macro surface of 20–40 µm (microns)
- Double thermal acid etching process creates structures between 1–5 µm
- Material forms a hydrophilic titanium oxide layer

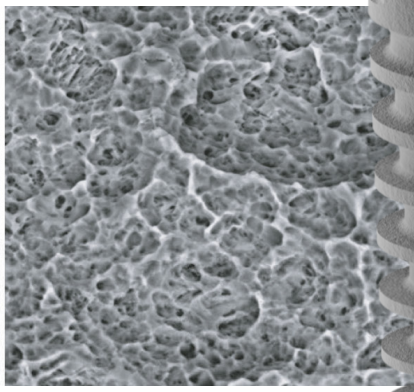


# Titanium Grade 5 ELI

## Better physical properties & biocompatibility



Competitor **SEM Image SLA© Surface,**
Titanium Grade 4



Ritter Implants **SB/LA SEM Image,**
Titanium Grade 5

Both images were taken in **Secondary Electron Mode** but the Ritter Implants image in the backscattering mode of the **electron microscope.**
With the secondary electron mode of Ritter Implants Image the topography is more pronounced while the backscattering mode reflects better the material contrast.

**Conclusion:** Ritter Implants SB/LA reaches the results even better with alloy Titanium Grade 5, **(Ti6AL4VELI: 90 % Titanium, 6 % Aluminum, 4 % Vanadium)**

"The excellent biocompatibility and physicochemical properties of Ti dental implants position Ti as the gold standard in implant dentistry. While the safety and success of Grade 4 Ti is well documented, Grade 5 offers better physical properties and similarly outstanding biocompatibility and survival. As for the various surface modifications, SLA appears to combine the advantages of the physical and chemical methods successfully, making it a favorable alternative. High levels of osseointegration and favourable long-term survival of SLA dental implants were confirmed by several in vitro and clinical studies." **Based on the current literature, we can conclude that Grade 5 Ti with SLA-modified surfaces assures the best dental implantation outcomes.**

### By the ICOI – International Congress of Implantology

Sandblasted, large grit, acid-etched implant surface, (SLA) is a type of surface treatment that creates surface roughness with the goal of enhancing osseointegration through greater bone-to-implant contact (BIC). The SLA process increases the rate at which osseointegration occurs by using a combination of grit and acid etching to give the surface increased roughness on multiple levels. This allows osteoblasts to proliferate and adhere to the implant surface. Through osseointegration, SLA can help provide increased stability of the implant which will ultimately lengthen its longevity. The use of specialized implants by Straumann SLA implants, such as the SLActive implant and the Roxolid SLA implant, reduces the amount of treatment time required while also increasing the treatment predictability. The Roxolid SLA implant can also reduce the need for bone augmentation to assist those patients who have insufficient bone. The SLA process offers a variety of benefits to patients requiring increased ossification prior to an implant.

# Cover and Fixation Screw

All Implants & Abutments include screws

## Reason#2

Every Ritter Implant

**includes a**

Cover Screw

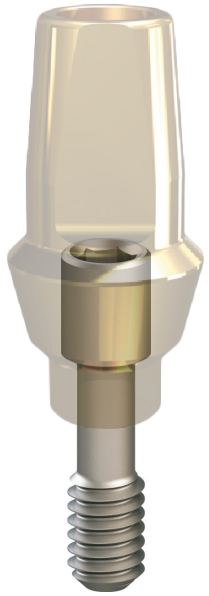
## Reason#3

Every Ritter Abutment

**includes an**

Abutment

Fixation Screw



**Most Ritter Implants Screws are made of Grade 5 Titanium and are not comparable to any other screws!**

# The unique packaging design

## Clean & safe packed

The LOT Number is **clearly marked** on the outside, so the treatment team can quickly and reliably identify the diameter and length of the implant.

All implants are supplied in single or 10-packs; while prosthetic components are packed in single 20-packs. (some inventory may still be packed in 6 or 10 packs).

The Ritter Spiral Implant SB/LA is protected by a sealed package with a sterile barrier. The implant is supplied including the Cover Screw, which is located in the bottom lid of the inner tube. (old packaging)


- **Clean & safe packed**
- **Sophisticated design**
- **Easy handling**

old packaging

new packaging


Ritter Implants single package top and side view. The different diameters are color coded and help with easy handling.

Scan me and watch a video about the packaging usage and handling.

# The key features

## Ritter Implant Internal HEX construction

## Reason#4

The internal hex connection (Platform) is the most widely used connection in the industry – the benefits are that compatible parts exist in every part of the world. **Over 50 % of all Implant production are made with Internal Hex.** This connection (or "platform connection") is used by Zimmer®, Bio Horizons®, MIS®, Implant Direct Legacy® and many more. The Internal Hex is also the easiest connection to restore against the 2nd most popular connection the **tapered Internal Hex.** Often called a morse taper or conical connection (see next page).

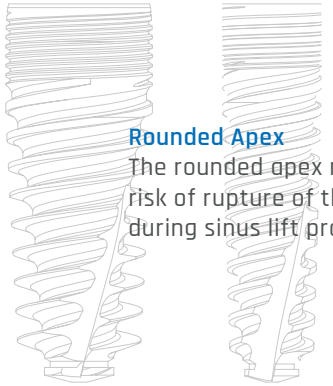
The overall superior Implant design attributes to the Ritter Implants increased primary stability and high insertion torque values.

*The brand names® mentioned are protected and the property of their respective brand owners.

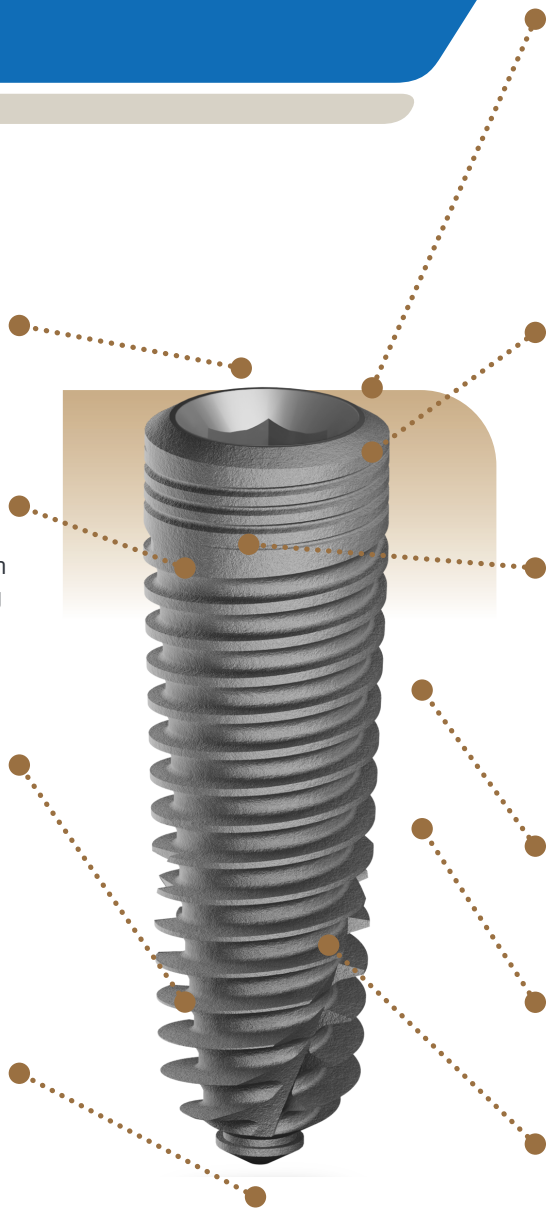
**Connection**
Internal Bevel-Hex connection, without micro gaps

**Unique Thread**
Wider threads in the upper body that increase surface area and reduce bone stress, then transition to sharper threads for self-tapping function

**Apical blades**
Allow angular adjustment for parallelism during the insertion process



**Rounded Apex**
The rounded apex minimizes the risk of rupture of the membrane during sinus lift procedures



**Platform switching**
Standard abutments fit all regular diameters 3.75 mm, 4.2 mm, 5 mm & 6 mm

Narrow Line Abutments fit all narrow diameters 3.0 mm & 3.3 mm

**Micro Grooves**
Add greater surface area and reduce stress on crestal bone, prevent loss of marginal bone and increase "bone-to-implant" contact.

**SB/LA**
Sandblasted with large particles, acid etched macro surface of 20-40 µm to a micro surface of about 2 Micrometer, (also called micron, metric unit of measure for length equal to 0.001 mm, or about 0.000039 inch.)

**Tapered Body**
Increases initial stability while protecting adjacent roots

**Dual Cutting Edge**
Enhances self-tapping and increases ease of insertion

**Progressive Threads**
Relaxes stress points in bone, creates better hold in soft bone, suitable for all bone densities

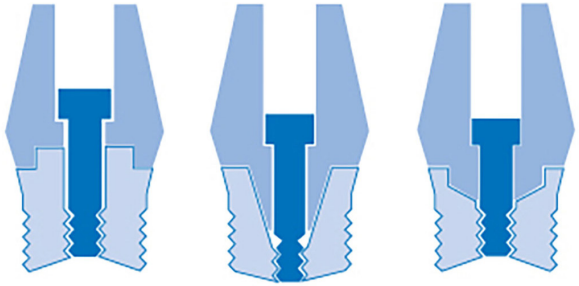
# Internal HEX Connection

## Platform Switch

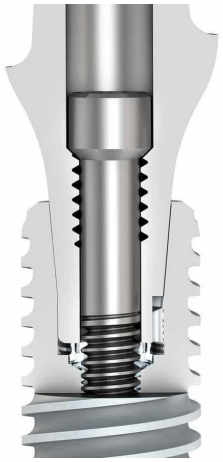
RITTER™ IMPLANTS

**Tapered Hex, Morse Taper and Conical Connection** are the 2nd most common connection and are used in popular manufacturers such as Nobel®, Hiossen®/ Ostem®, Neodent® and Megagen®.

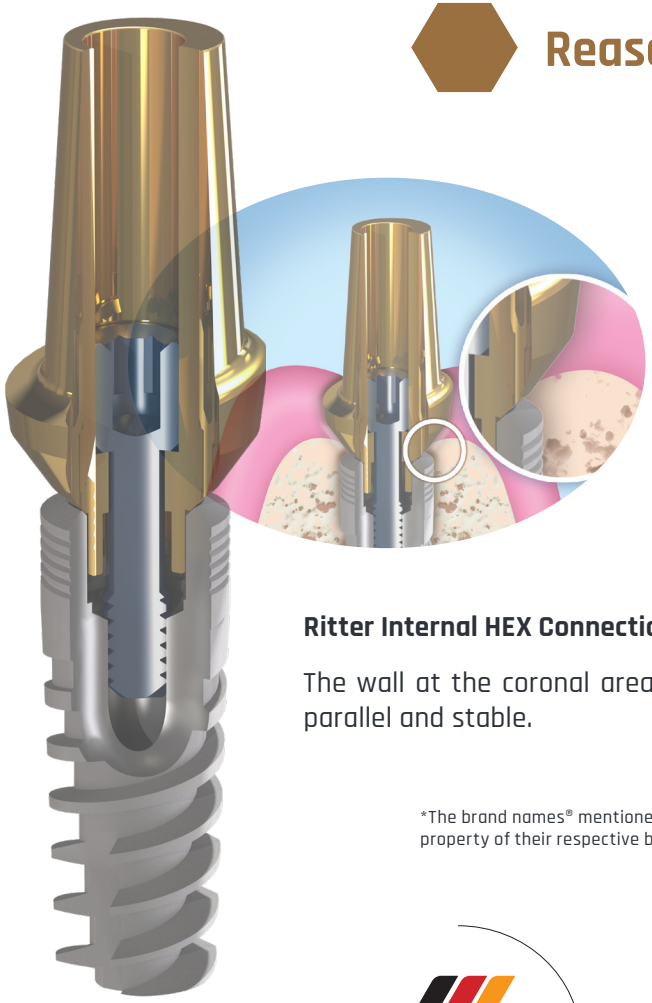
As you can see in the illustration that the body of the abutment engages into the body of the implant. The manufacturers of these products claim that this creates a better seal between the abutment and the Implant than an internal hex. There exist no scientific proof of such myth. **Contrarily the abutment weakens the coronal portion** of the Implant and coronal breakage is very common in these implants. In addition, the tapered shape of the connection creates a cold welding of the abutment into the implant, making nearly impossible to remove or replace an abutment without removing an Implant.



External Morse Internal



**Reason#5**



**Ritter Internal HEX Connection**

The wall at the coronal area is wide, parallel and stable.

*The brand names® mentioned are protected and the property of their respective brand owners.

Ritter Implants Made in GERMANY

Proudly distributed in Canada

# Ritter Implant sizes and diameters

## SNAP SB/LA Implants – all surfaces sand blasted and acid etched

## Reason#6

**This wide range of Platform Shifting/Switching.**

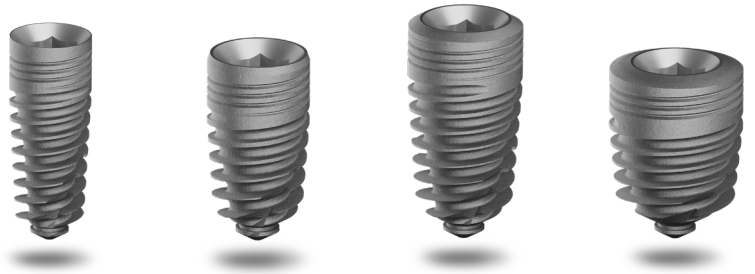
Ritter Implants has **two Platforms.** Our Standard Platform encompasses the most popular Diameters of Implants and thus Ritter has the capability of Platform Shifting from 3.75 mm all the way to 6 mm in diameter, in total a complete line with **21 different sizes using the same Platform Diameter/Platform Connection/Abutments/Healing Caps – over 1000 different prosthetics fit into this group of Implants.**

## Reason#7

The Standard Platform is also known as the Standard Line features with **6 mm short Implants in the 5 mm and 6 mm Diameters.**

## Standard Platform

The different diameters are color coded and help with easy handling.

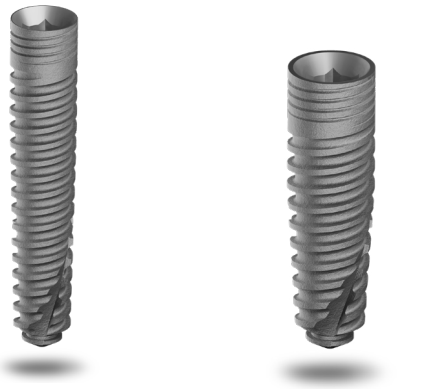


| SB/LA | Spiral Implant 3.75 | Spiral Implant 4.2 | Spiral Implant 5.0 | Spiral Implant 6.0 |
|---|---|---|---|---|
| ø (mm) | 3.75 | 4.2 | 5.0 | 6.0 |
| Length (mm) | 8, 10, 11.5, 13, 16 | 8, 10, 11.5, 13, 16 | 6, 8, 10, 11.5, 13, 16 | 6, 8, 10, 11.5, 13 |
| Apical ø (mm) | 3.2 | 3.6 | 4.25 | 5.25 |
| Platform ø (mm) | 3.75 | 3.75 | 3.75 | 3.75 |
| Surface | SB/LA | SB/LA | SB/LA | SB/LA |
| Hex-Size (mm) | 2.43 | 2.43 | 2.43 | 2.43 |
| Connection | Internal Hex 3.75 | Internal Hex 3.75 | Internal Hex 3.75 | Internal Hex 3.75 |
| **Product Codes** Diameter/ Length | SBLA-3.75-8<br>SBLA-3.75-10<br>SBLA-3.75-11.5<br>SBLA-3.75-13<br>SBLA-3.75-16 | SBLA-4.2-8<br>SBLA-4.2-10<br>SBLA-4.2-11.5<br>SBLA-4.2-13<br>SBLA-4.2-16 | SBLA-5.0-6<br>SBLA-5.0-8<br>SBLA-5.0-10<br>SBLA-5.0-11.5<br>SBLA-5.0-13<br>SBLA-5.0-16 | SBLA-6.0-6<br>SBLA-6.0-8<br>SBLA-6.0-10<br>SBLA-6.0-11.5<br>SBLA-6.0-13 |

## Reason#8

The Narrow Platform 2.9 mm encompassing **8 additional Implants in 3.0 and 3.3 Implants** – for obvious reasons they cannot be on the same diameter platform as the Standard Line. Our Platform have a full line of Multi Unit and Overdenture Abutments – rendering the need for ONE PIECE or MINI Implants to be obsolete because you can restore all options with this Narrow Implant and are not tied to cement or permanently fused abutments. The parts for this platform are **always depicted in purple fonts and colors.**

ONE PIECE or commonly called Mini Implants tie the patient to the same type of prosthesis, he/she must have the old Implants removed in order to upgrade their prosthesis.



| SB/LA | Narrow Line Spiral Implant 3.0 | Narrow Line Spiral Implant 3.3 |
|---|---|---|
| ø (mm) | 3.0 | 3.3 |
| Length (mm) | 10, 11.5, 13, 16 | 10, 11.5, 13, 16 |
| Apical ø (mm) | 2.6 | 2.6 |
| Platform ø (mm) | 2.9 | 2.9 |
| Surface | SB/LA | SB/LA |
| Hex -Size (mm) | 2.0 | 2.0 |
| Connection | Internal Hex 2.9 | Internal Hex 2.9 |

Ø 3.0 mm

Ø 3.3 mm

## The narrow diameters: Narrow Line

**Product Codes**
Diameter/Length
NL-SBLA-3-10
NL-SBLA-3-11.5
NL-SBLA-3-13
NL-SBLA-3-16

**Product Codes**
Diameter/Length
NL-SBLA-3.3-10
NL-SBLA-3.3-11.5
NL-SBLA-3.3-13
NL-SBLA-3.3-16

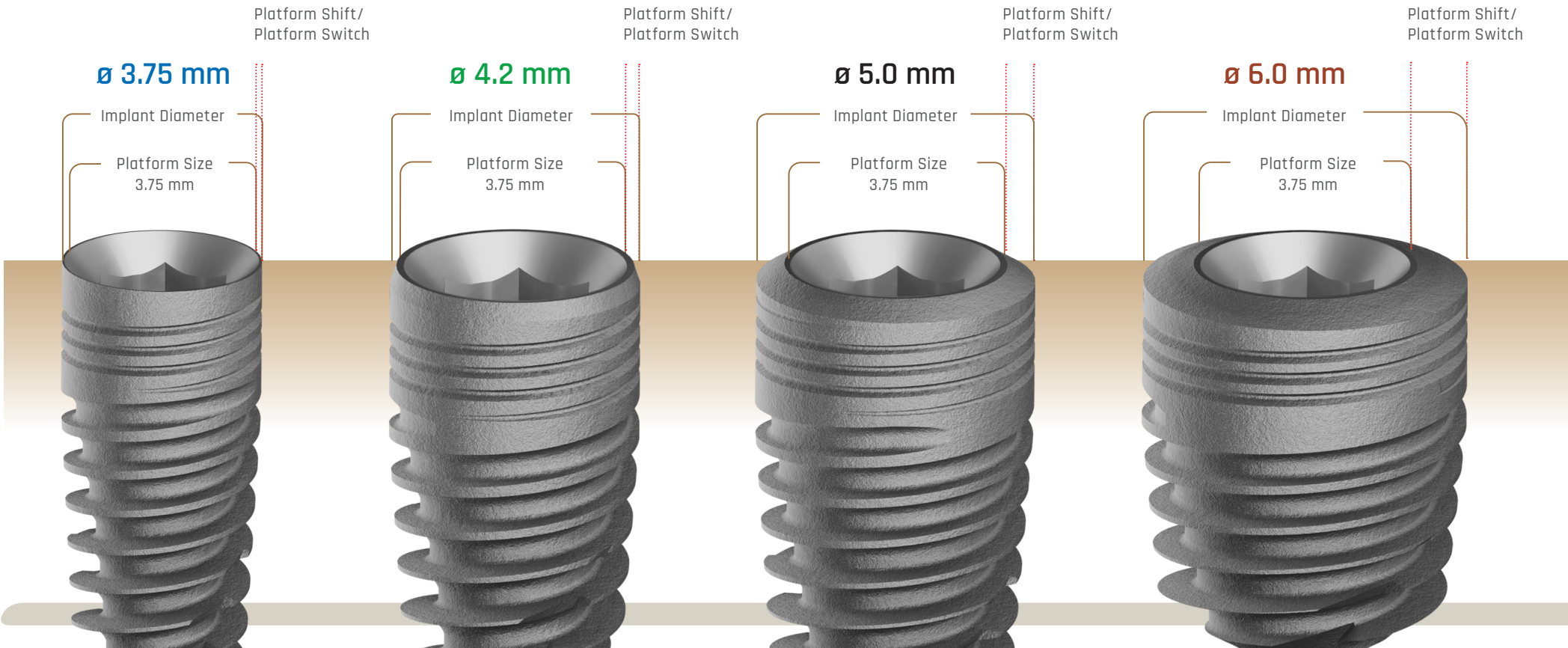
# Platform Shift/Platform Switch

## SNAP SB/LA Implants – each size Standard Platform

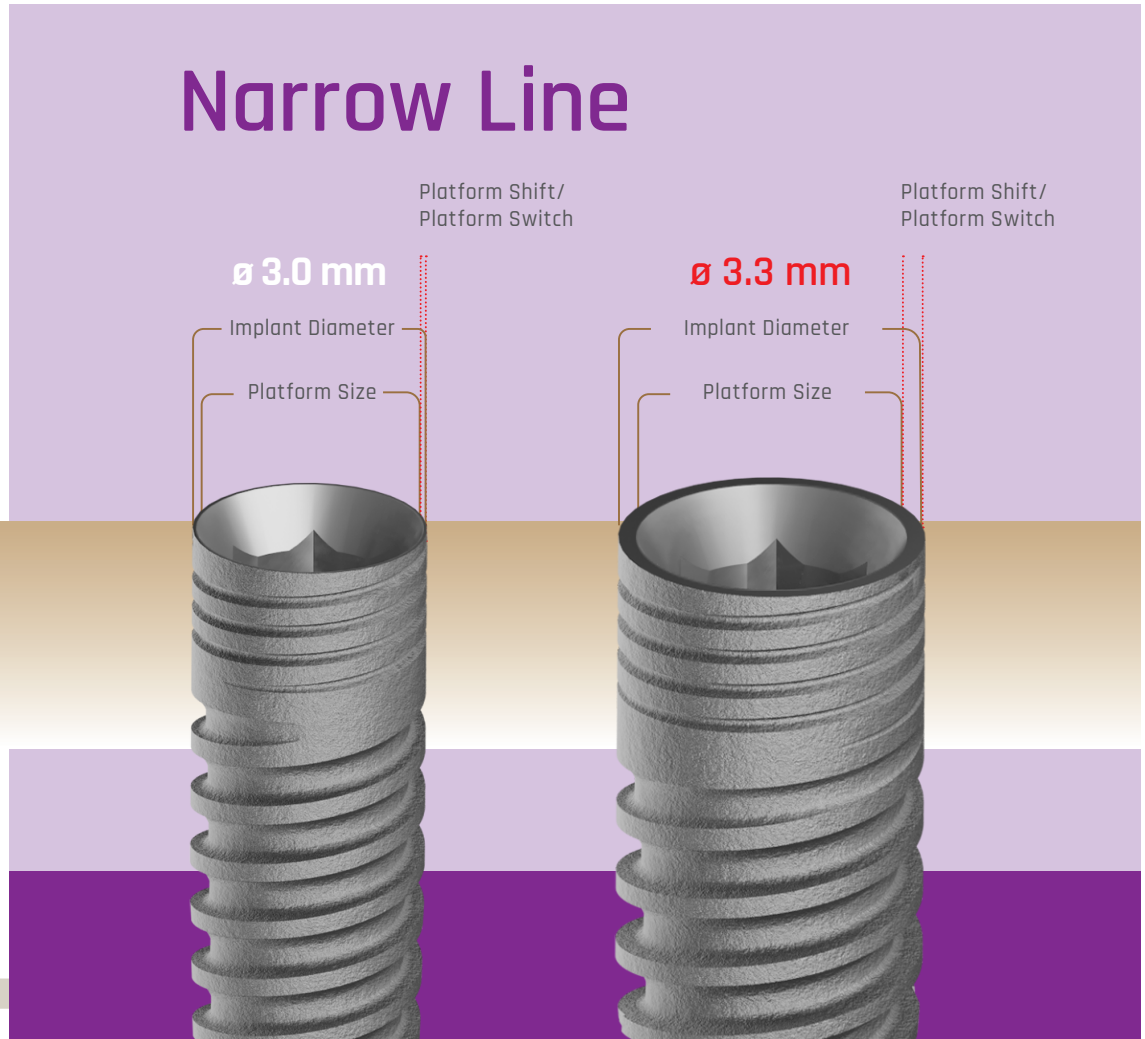
Important information here about the sizes of the Implants. In addition to different types of Platform Connections **most companies have several platform diameters.** Ritter has only two!

The **"platform (diameter)"** is described as the diameter of the point where the abutment seals to the implant. The **platform** is represented by the platform size. In the past Implant companies made a platform for each Diameter Implant or paired most similar two diameter Implants into one platform diameter. This is known as **Platform Matching.**

# Standard Platform



Data later showed that if the abutment connection diameter (platform) was less wide than the Implants actual Diameter – then more bone would grow over the neck of the implant. This phenomenon became know as **Platform shifting** or **Platform Switching.**



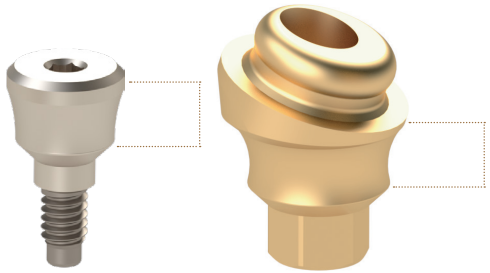
# Emergence Profile

## Ritter Vertical Platform Shift

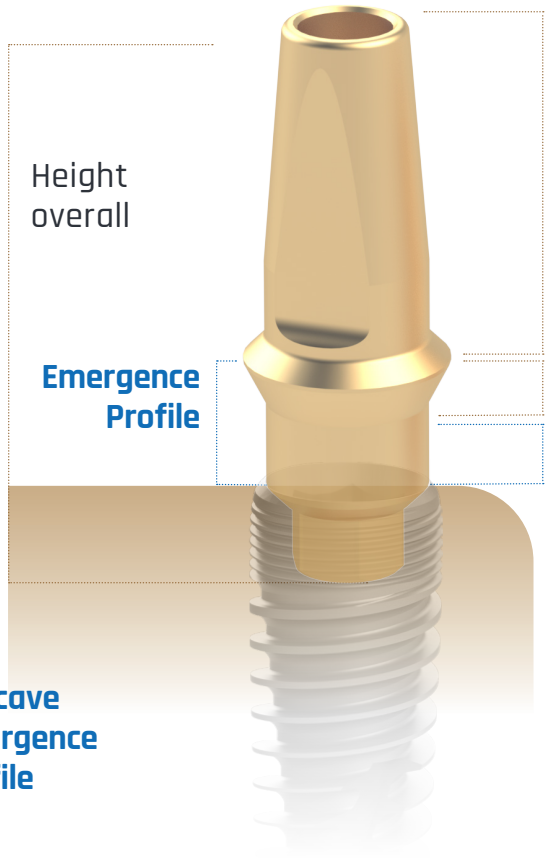
**Reason#9**

**Vertical Platform Switch Profile** – Ritter was the first to produce a full line of these products to promote soft tissue healing and growth but also so that an Implant may be placed sub-crestal (below the bone).

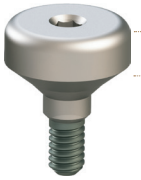
The shape of the shoulder or the flare out of the abutment as it comes out of the implant is called the **Emergence Profile.**



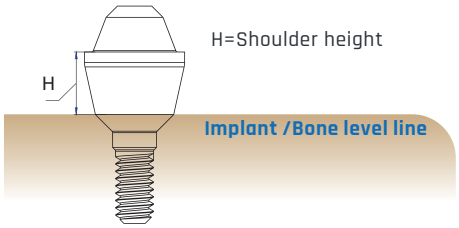
**Concave Emergence Profile**



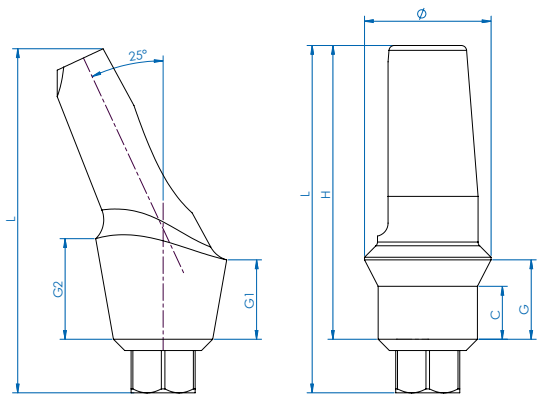

Ritter Vertical Emergence Profile



Traditional Emergence Profile




*All Platform switching products are equipped with a 1.5 mm vertical platform switching unless otherwise specified. Soft tissue management support in preparation for vertical platform switching




| Symbol | Meaning |
|---|---|
| L | Total length |
| H | Length from platform to top edge |
| G | Gingival height |
| G1 | Gingival height on short side |
| G2 | Gingival height on long side |
| Ø | Diameter at widest point |
| C | Collar height of platform switch |
| NL | Narrow Line for 3.0 & 3.3 mm ø Implants |

Shoulder, Collar, Gingival Margin, Gingival height – all mean the same thing – as the abutment emerges off the platform of the Implant to shape the soft tissue (gums/gingiva/sulcus) and rises to a certain height which matches the height distance of a persons bone level to the depth of the tissue.

# Torque Values

## Ritter recommended torque values for Implants and Abutments

RITTER™ IMPLANTS

Implant Insertion Torque: Its Role in Achieving Primary Stability of Restorable Dental Implants.

Gary Greenstein, John Cavallaro

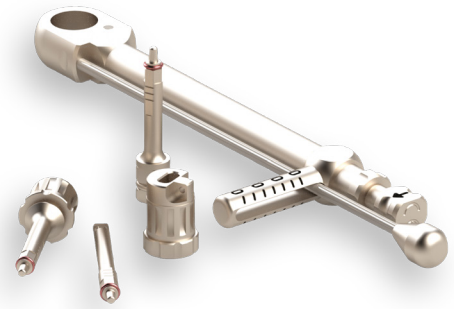
A literature review was conducted to determine the role of insertion torque in attaining primary stability of dental implants. The review is comprised of articles that discussed the amount of torque needed to achieve primary implant stability in healed ridges and fresh extraction sockets prior to immediate implant loading. Studies were appraised that addressed the effects of minimum and maximum forces that can be used to successfully place implants. The minimum torque that can be employed to attain primary stability is undefined. Forces ≥30 Ncm are routinely used to place implants into healed ridges and fresh extraction sockets prior to immediate loading of implants. Increased insertion torque (≥50 Ncm) reduces micromotion and does not appear to damage bone. In general, the healing process after implant insertion provides a degree of biologic stability that is similar whether implants are placed with high or low initial insertion torque. Primary stability is desirable when placing implants, but the absence of micromotion is what facilitates predictable implant osseointegration. Increased insertion torque helps achieve primary stability by reducing implant micromotion.

Furthermore, tactile information provided by the first surgical twist drill can aid in selecting the initial insertion torque to achieve predictable stability of inserted dental implants.

Please scan for review

Implant Insertion Torque: Its Role in Achieving Primary Stability of Restorable Dental Implants

Gary Greenstein, John Cavallaro



**Cover Screw**
Hand torqued only

**Implants**

**ø 3.0/3.3 mm**
35-50 Ncm

**ø 3.75 mm**
35-50 Ncm

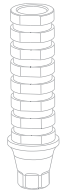
**ø 4.2/5.0/6.0 mm**
35-50 Ncm

**Titanium Healing Caps**

Hand torqued only

**Titanium Temporary Abutments**

20 Ncm



**Zirconium and Peek Abutments**

30 Ncm
22 Ncm Narrow Line

**Locators TO Clicq™ Overdenture.**

30 Ncm
22 Ncm Narrow Line

**Multi Units**

30 Ncm
22 Ncm Narrow Line

**Multi Units Components**

22 Ncm

* Note: All torque values are recommended guideline values that may vary depending on the physical situation. They cannot be scientifically proven even though numerous tests tend towards these results.

# Healing Caps/Gingiva Formers

## Preparing the soft tissue for the final Prosthesis

Healing Caps/Healing Abutments/Gingiva Formers/ Sulcus Formers – this item is used to shape the gums after the implants has been placed and healed. The diameters, heights and shapes are to be decided by the dentist as to prepare and shape the gums for the final Crown/Prosthesis.

### Standard Platform

HC-3 — Standard Line
H 3 mm I Ø 4.5 mm

HC-3C — Standard Line
H 3 mm I Ø 4.5 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-3N — Standard Line slim
H 3 mm I Ø 3.8 mm

HC-3W — Standard Line wide
H 3 mm I Ø 5.5 mm

HC-3WC — Standard Line wide
H 3 mm I Ø 5.5 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-3EW — Standard Line extra wide
H 3 mm I Ø 6.3 mm

HC-3EWC — Standard Line extra wide
H 3 mm I Ø 6.3 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-5 — Standard Line
H 5 mm I Ø 4.5 mm

HC-5C — Standard Line
H 5 mm I Ø 4.5 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-5N — Standard Line slim
H 5 mm I Ø 3.8 mm

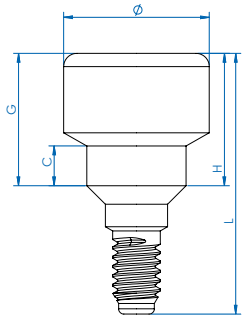
HC-5W — Standard Line wide
H 5 mm I Ø 5.5 mm

HC-5WC — Standard Line wide
H 5 mm I Ø 5.5 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-5EW — Standard Line extra wide
H 5 mm I Ø 6.3 mm

HC-5EWC — Standard Line extra wide
H 5 mm I Ø 6.3 mm
C= 1.5 mm Collar
Vertical Platform switching

HC-7 — Standard Line
H 7 mm I Ø 4.5 mm

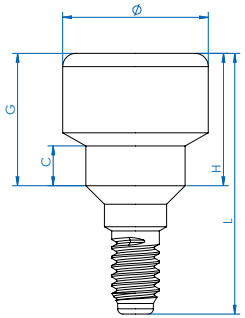



| Symbol | Meaning |
|---|---|
| L | Total length |
| H | Length from platform to top edge |
| G | Gingival height |
| Ø | Diameter at widest point |
| C | Collar height of platform switch |
| NL | Narrow Line for 3.0 & 3.3 mm ø Implants |

# Narrow Line Platform

## The narrow diameters/**Narrow Line ø 3.0 and ø 3.3 mm**

| | |
|---|---|
| NL-HC-3 | Narrow Line<br>H 3 mm I Ø 4.5 mm |
| NL-HC-3C | Narrow Line<br>H 3 mm I Ø 4.5 mm<br>C= 1.5 mm Collar<br>Vertical Platform switching |
| NL-HC-3N | Narrow Line slim<br>H 3 mm I Ø 3.8 mm |
| NL-HC-5 | Narrow Line<br>H 5 mm I Ø 4.5 mm |
| NL-HC-5C | Narrow Line<br>H 5 mm I Ø 4.5 mm<br>C= 1.5 mm Collar<br>Vertical Platform switching |
| NL-HC-5N | Narrow Line slim<br>H 5 mm I Ø 3.8 mm |




| Symbol | Meaning |
|---|---|
| L | Total length |
| H | Length from platform to top edge |
| G | Gingival height |
| Ø | Diameter at widest point |
| C | Collar height of platform switch |
| NL | Narrow Line for 3.0 & 3.3 mm ø Implants |

# Impression Copings
## Open and Closed Tray procedure

### Closed Tray transfer

| | |
|---|---|
| ACT-15 | Standard Line - 15° angled<br>Closed Tray Transfer<br>H 11 mm I Ø 4.4 mm,<br>**Incl. TSA-8.3 screw** |
| ACT-25 | Standard Line - 25° angled<br>Closed Tray Transfer<br>H 10.9 mm I Ø 4.4 mm<br>**Incl. TSA-8.3 screw** |

| | |
|---|---|
| NL-ACT-15 | Narrow Line - 15° angled<br>Closed Tray Transfer<br>H 11 mm I Ø 4.8 mm<br>**Incl. NL-TSA-8.3 screw** |
| NL-ACT-25 | Narrow Line - 25° angled<br>Closed Tray Transfer<br>H 11 mm I Ø 4.8 mm<br>**Incl. NL-TSA-8.3 screw** |

NL = Narrow Line for 3.0 & 3.3 mm ø Implants

**Reason#10**

**Angled Closed Tray** – This allows a doctor to take an Impression of two angled implants at the same time that would otherwise not be possible and require two Impressions to be taken – this makes Ritter unique!

**Impression Copings, Impression Pins, Impression Abutments or Impression Posts – they all mean the same.**

These are used to register the depth and orientation of the Implant inside the bone as it relates to the surrounding teeth so that the laboratory can fabricate the crown/ Final Prosthesis.

Closed Tray - this part is screwed into the implant and a traditional Impression is taken over this part. When the material is dried in the mouth – the impression tray is removed. An impression of the part is left inside the material. The tray is sent to the laboratory who in turn reverse pours a model into a replica of the teeth and now can build the final prosthesis to screw into the implant. The closed tray Impression coping is then unscrewed and kept by the doctor for possible future use after sterilization.

Open Tray – same process except that the coping tray stays inside the tray and goes to the lab - this make the labs job easier and is more accurate – because the lab can attach the analog to the open tray providing the exact position and creating the mouth replica at the same time/step.

# Impression Copings

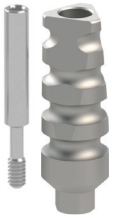
## Open and Closed Tray procedure/Scan Body/Scan Abutment

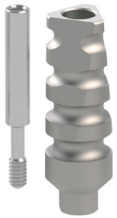
RITTER IMPLANTS™

**Scan Body/Abutment** – these are used to avoid Open and Closed Tray traditional ANALOG impressions. They register a digital Impression of the location of the Implant. This product is preformed and made from Peek. Peek is the most common plastic material to make temporary crowns; therefore this a **dual purpose scan body and temporary/provisional abutment.**

**Temporary Abutments** are commonly made after the Impression is made. An impression is taken to make a final crown/prosthesis which can take a few weeks and that is why a Temporary or also know as provisional is needed.

### Closed Tray transfer





Top view

| | |
|---|---|
| CTT-10.8N | Standard Line slim<br>Closed Tray Transfer<br>H 10.9 mm I Ø 3.8 mm<br>**Incl. TSCT-14 screw** |
| NL-CTT-10.8N | Narrow Line slim<br>Closed Tray Transfer<br>H 10.9 mm I Ø 3.8 mm<br>**Incl. NL-TSCT-14 screw** |
| CTT-13.8N | Standard Line slim<br>Closed Tray Transfer<br>H 13.9 mm I Ø 3.8 mm<br>**Incl. TSCT-17 screw** |
| NL-CTT-13.8N | Narrow Line slim<br>Closed Tray Transfer<br>H 13.9 mm I Ø 3.8 mm<br>**Incl. NL-TSCT-17 screw** |

### Open Tray transfer

| | |
|---|---|
| OTT-10.8N | Standard Line slim<br>Open Tray Transfer<br>H 10.8 mm I Ø 4 mm<br>**Incl. TSOT-24 screw** |
| NL-OTT-10.8N | Narrow Line slim<br>Open Tray Transfer<br>H 10.8 mm I Ø 3.8 mm<br>**Incl. NL-TSOT-24 screw** |
| OTT-13.8N | Standard Line slim<br>Open Tray Transfer<br>H 13.9 mm I Ø 4 mm<br>**Incl. TSOT-24 screw** |
| NL-OTT-13.8N | Narrow Line slim<br>Open Tray Transfer<br>H 13.9 mm I Ø 3.8 mm<br>**Incl. NL-TSOT-24 screw** |
| OTT-13.8W | Standard Line wide<br>Open Tray Transfer<br>H 13.9 mm I Ø 5.5 mm<br>Platform switching<br>**Incl. TSOT-24 screw** |

**Reason#11**

*****DUAL PURPOSE*****
**Scan Body + temporary/provisional abutment**

| | |
|---|---|
| 3DSPA-8C | Scan Abutment<br>Standard Line<br>Plastic Abutment for 3D Scanner<br>5 mm Abutment-body,<br>1.6 mm Shoulder<br>C= 1.5 mm Vertical Platform switching<br>**Incl. TSA-8.3 screw** |
| NL-3DSPA-8C | Scan Abutment<br>Narrow Line<br>Plastic Abutment for 3D Scanner<br>5 mm Abutment-body,<br>1,6 mm Shoulder<br>C= 1.5 mm Vertical Platform switching<br>**Incl. NL-TSA-8.3 Screw** |

# Pop Up Impression with PUT

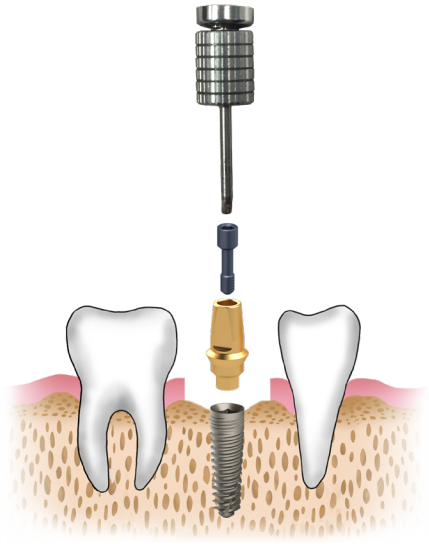
## All in one Pop Impression Transfer Abutment

***MULTI PURPOSE***
All PUT-XX can be used as Impression, Healing, Temporary and Final Abutment!

## Reason#12

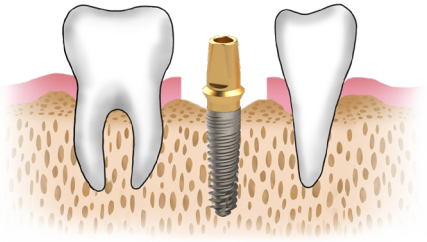
The following pick transfer abutments are another way to take an Impression with Ritter. Our abutments are made with Grade 5 titanium and can not only be used for taking an impression but also for the final prosthesis. Our Pick up Transfer abutments also come in Angled (no one else has this). This is the ability to use for a final/angled and Vertical shift pick transfer abutments from Ritter.

1. Place PUT Abutment with flat side facing the buccal side and hand tighten with HHDA 1.29 hex tool.

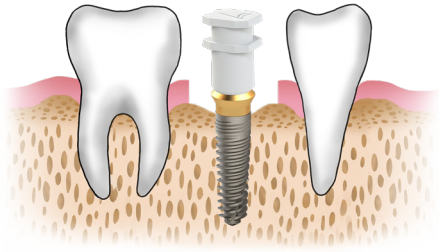


2. Torque to 30 Ncm.

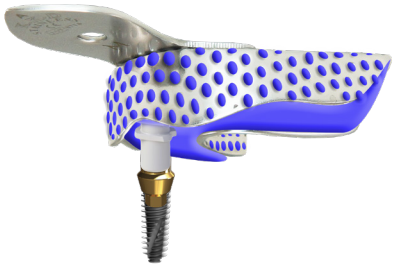
One week



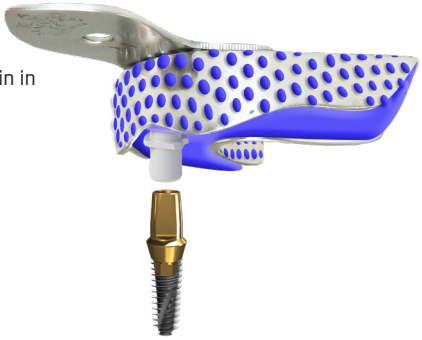
3. Place PUP-CA Impression Cap on PUT Abutment, aligning flat interior of PUP-CA with the flat of the PUT Abutment (which should be facing the buccal). Press downward until you feel the parts snap into place.



4. Place impression tray over components until hardened and remove tray.



5. The PUP-CA will remain in the tray.

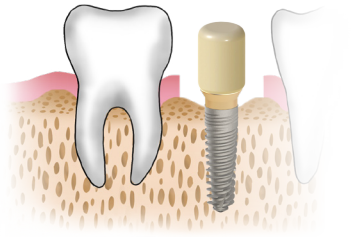


RITTER™ IMPLANTS

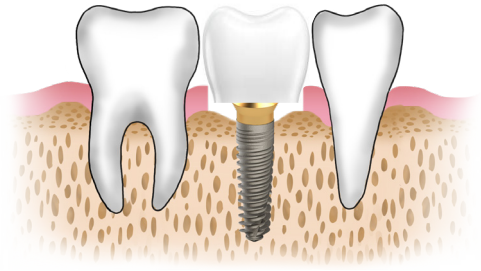
## Implant place holder LAB models

6. Send tray along with the appropriate IA-PUT (S, M, L) to lab for your final crown.

7. Place the TC-PUT on PUT Abutment until final restoration is delivered. (Alternatively, a temporary crown may be placed directly on the PUT Abutment.)



8. Original PUT Abutment is ready for final restoration.



IA-3.75 — Standard Line
Implant Analog
Standard Platform for
3.75 mm, 4.2 mm,
5.0 mm & 6.0 mm

NL-IA-3.0 — Narrow Line
Implant Analog Narrow Line
Platform for
3.0 mm and 3.3 mm

Analogs are used by laboratories to replicate the Implant in a plaster model, this is done in order not to use a real Implant for this purpose. There are two types of analogs – Implant level and Abutment level

Since Ritter has two platforms, we only need two Implant Level Analogs – one for the NL/Narrow Line 2.9 Platform and one for the SL/Standard Line 3.75 platform.

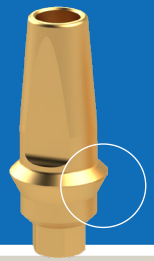
| | |
|---|---|
| TSCT-14 | Standard Line, Titanium Screw for Closed Tray Transfer – 13 mm |
| NL-TSCT-14 | Narrow Line, Titanium Screw for Narrow Line, Closed Tray Transfer – 13 mm |
| TSCT-17 | Standard Line, Titanium Screw for Closed Tray Transfer – 16 mm |
| NL-TSCT-17 | Narrow Line, Titanium Screw for Narrow Line, Closed Tray Transfer – 16 mm |
| TSOT-24 | Standard Line, Titanium Screw for Open Tray Transfer – 22.8 mm |
| NL-TSOT-24 | Narrow Line, Titanium Screw for Narrow Line, Open Tray Transfer – 23.2 mm |

TSA-8.3 — Standard Line
Titanium Screw 7.6 mm for
straight and angled Abutments

NL-TSA-8.3 — Narrow Line, Titanium Screw 7.8 mm for straight and angled Abutments

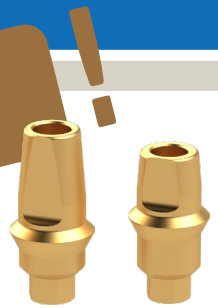
# PUT System

The diameters, heights and shapes are to be decided by the dentist as to prepare and shape the gums for the final crown/prosthesis.





***MULTI PURPOSE***
All PUT-XX can be used as Impression, Healing, Temporary and Final Abutment!

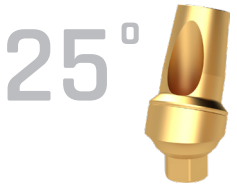


## Standard platform

| | |
|---|---|
| PUT-1S | 4 mm Abutment-Body, 1.1 mm Shoulder |
| PUT-1SC | 4 mm Abutment-Body, 0.6 mm Shoulder<br>C= 0,5 mm Vertical Platform switching |
| PUT-1M | 6 mm Abutment-Body, 1.1 mm Shoulder |
| PUT-1MC | 6 mm Abutment-Body, 0.6 mm Shoulder<br>C= 0.5 mm Vertical Platform switching |
| PUT-1L | 8 mm Abutment-Body, 1.1 mm Shoulder |
| PUT-1LC | 8 mm Abutment-Body, 0.6 mm Shoulder<br>C= 0.5 mm Vertical Platform switching |
| PUT-2S | 4 mm Abutment-Body, 2.1 mm Shoulder |
| PUT-2SC | 4 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| PUT-2M | 6 mm Abutment-Body, 2.1 mm Shoulder |
| PUT-2MC | 6 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| PUT-2L | 8 mm Abutment-Body, 2.1 mm Shoulder |
| PUT-2LC | 8 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| PUT-3S | 4 mm Abutment-Body, 3.1 mm Shoulder |
| PUT-3SC | 4 mm Abutment-Body, 1 .1 mm Shoulder<br>C= 2 mm Vertical Platform switching |

| | |
|---|---|
| PUT-3MC | 6 mm Abutment-Body, 1.1 mm Shoulder<br>C= 2 mm Vertical Platform switching |
| PUT-3L | 8 mm Abutment-Body, 3.1 mm Shoulder |
| PUT-3LC | 8 mm Abutment-Body, 1.1 mm Shoulder<br>C= 2 mm Vertical Platform switching |
| PUT-4L | 8 mm Abutment-Body, 4.1 mm Shoulder |


| | |
|---|---|
| PUT-15-1M | 15° angles<br>6 mm Abutment-Body, 1 mm Shoulder |
| PUT-15-2M | 15° angles<br>6 mm Abutment-Body, 2 mm Shoulder |
| PUT-15-3M | 15° angles<br>6 mm Abutment-Body, 3 mm Shoulder |




| | |
|---|---|
| PUT-25-1M | 25° angles<br>6 mm Abutment-Body, 1 mm Shoulder |
| PUT-25-2M | 25° angles<br>6 mm Abutment-Body, 2 mm Shoulder |
| PUT-25-3M | 25° angles<br>6 mm Abutment-Body, 3 mm Shoulder |

## Narrow platform

| | |
|---|---|
| NL-PUT-1S | 4 mm Abutment-Body, 1.1 mm Shoulder |
| NL-PUT-1M | 6 mm Abutment-Body, 1.1 mm Shoulder |
| NL-PUT-1MC | 6 mm Abutment-Body, 0.6 mm Shoulder<br>C= 0.5 mm Vertical Platform switching |
| NL-PUT-1L | 8 mm Abutment-Body, 1.1 mm Shoulder |
| NL-PUT-1LC | 8 mm Abutment-Body, 0.6 mm Shoulder<br>C= 0.5 mm Vertical Platform switching |
| NL-PUT-2S | 4 mm Abutment-Body, 2.1 mm Shoulder |
| NL-PUT-2SC | 4 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| NL-PUT-2M | 6 mm Abutment-Body, 2.1 mm Shoulder |
| NL-PUT-2MC | 6 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| NL-PUT-2L | 8 mm Abutment-Body, 2.1 mm Shoulder |
| NL-PUT-2LC | 8 mm Abutment-Body, 1.1 mm Shoulder<br>C= 1 mm Vertical Platform switching |
| NL-PUT-3SC | 4 mm Abutment-Body, 1.1 mm Shoulder<br>C= 2 mm Vertical Platform switching |

All PUT abutments including plastic Cap PUP-CA and TSA-8.3/NL-TSA-8.3 Titan screw

# PUT System
## Accessories

### Narrow platform

| | |
|---|---|
| NL-PUT-3MC | 6 mm Abutment-Body, 1.1 mm Shoulder<br>C= 2 mm Vertical Platform switching |
| NL-PUT-3L | 8 mm Abutment-Body, 3.1 mm Shoulder |
| NL-PUT-3LC | 8 mm Abutment-Body, 1.1 mm Shoulder<br>C= 2 mm Vertical Platform switching |
| NL-PUT-4L | 8 mm Abutment-Body, 4.1 mm Shoulder |
| NL-PUT-15-1M | 15° angles<br>6 mm Abutment-Body, 1 mm Shoulder |
| NL-PUT-15-2M | 15° angles<br>6 mm Abutment-Body, 2 mm Shoulder |
| NL-PUT-15-3M | 15° angles<br>6 mm Abutment-Body, 3 mm Shoulder |
| NL-PUT-25-1M | 25° angles<br>6 mm Abutment-Body, 1 mm Shoulder |
| NL-PUT-25-2M | 25° angles<br>6 mm Abutment-Body, 2 mm Shoulder |
| NL-PUT-25-3M | 25° angles<br>6 mm Abutment-Body, 3 mm Shoulder |

PUT accessories: **PUP CA:** closed tray Impression – included with PUT abutment **WS:** Waxing Sleeves are used by the laboratory to clone the shape of the abutment inside the crown.

**TC:** The dentist may leave the PUT abutment in the mouth and use the TC as a healing cap or temporary crown.

PUP-CA — Plastic cap for PUT-S, M & L

WS-PUT — Wax Sleeve for all PUT Abutments (red) not rotational

WS-PUT-R — Wax Sleeve for all PUT Abutments (white) rotational

TC-PUT-S — Temporary Cap (4 mm) for PUT-S

TC-PUT-M — Temporary Cap (6 mm) for PUT-M

TC-PUT-L — Temporary Cap (8 mm) for PUT-L

**IA:** is the Analog which replicates the abutment **THEREFORE IT IS AN ABUTMENT LEVEL ANALOG PARTICULARLY FOR THE PUT LINE ONLY** – this is only used if the dentist places the PUT abutment in the mouth and leaves it in until the crown returns – in this case he inserts the abutment analog into the pup ca after the impression is hardened – then ships to the laboratory.

IA-PUT-S — Analog for PUT-S (4 mm) Abutment

IA-PUT-M — Analog for PUT-M (6 mm) Abutment

IA-PUT-L — Analog for PUT-L (8 mm) Abutment

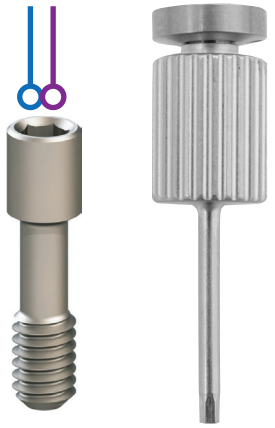
Ritter Implants Made in GERMANY

Proudly distributed in Canada

# Single Unit
## Prosthetic Components

**Same HEX Driver HHDA**
**for standard & Narrow Platform**
means same Driver/Tool
for abutment fixation

**Most Ritter Implants screws are made of Grade 5 Titanium!**



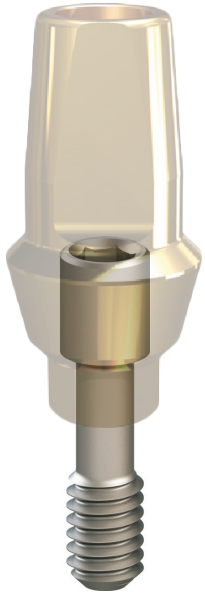
HHDA-S/L

All Ritter Abutments come with a fixation screw. Single Units have traditionally been manufactured to encompass incremental heights/incremental gingival heights/and Incremental angles – while the crown would compensate/over compensate for intermediary angles/heights and be cemented to the abutment in the mouth.

**All Ritter abutments screws are customized to accept the same screw driver – no matter what platform or type of abutment.**

**Reason#13**

# Same abutment fixation Driver HHDA
**for Standard & Narrow Platform**



# Temporary Abutments
## Peek/Titanium

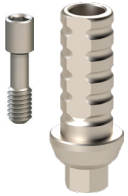
RITTER™ IMPLANTS

## PEEK Abutments Temporary Restoration Abutments

| | | | | | |
|---|---|---|---|---|---|
| PASA-1 | Standard Line<br>Peek-On anatomical,<br>straight abutment<br>1 mm Shoulder,<br>L 11.1 mm | PASA-2 | Standard Line<br>Peek-On anatomical,<br>straight abutment<br>2 mm Shoulder,<br>L 12.1 mm | PASA-3 | Standard Line<br>Peek-On anatomical,<br>straight abutment<br>3 mm Shoulder,<br>L 13.1 mm |

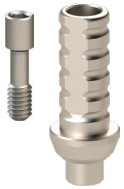
If a dentist is not using our dual Purpose Scan/ Temp Abutment, she/he can purchase any of the angles, heights or shoulder heights to make the temporary or provisional crown – Ritter also offers a popular version in Titanium.

## Titanium Temporary Abutments



| | |
|---|---|
| TTA-ZI-H | Temporary-Titanium-Abutment,<br>Anti-Rotational, ø 4.5 mm<br>L= 9.5 mm |
| NL-TTA-ZI-H | Narrow Line for 3.0/3.3 |

### Anti-Rotational



| | |
|---|---|
| TTA-ZI-R | Temporary-Titanium-Abutment,<br>Rotational, ø 4.5 mm<br>L= 9.5 mm |
| NL-TTA-ZI-R | Narrow Line for 3.0/3.3 |

### Rotational

*** NOTICE: NOT ALL ITEMS OF THIS CATALOG ARE APPROVED FOR SALES IN ALL COUNTRIES. PLEASE CHECK THE IMPORT REGULATIONS OF YOUR TERRITORY.***

# Abutments for Casting/LAB

## Ti-Base with casting sleeves/for LAB use

**Reason#14**

| | |
|---|---|
| AZA | Standard Line<br>Titanium Abutment<br>with Plastic Sleeve<br>Titanium base for accurate restorations. |
| NL-AZA | Narrow Line<br>Titanium Abutment<br>with Plastic Sleeve<br>Titanium base for accurate restorations. |

| | |
|---|---|
| AZA-CC | Standard Line<br>Cobalt Chrome Abutment<br>with Plastic Sleeve<br>Cobalt Chrome base for accurate restorations. |
| NL-AZA-CC | Narrow Line<br>Cobalt Chrome Abutment<br>with Plastic Sleeve<br>Cobalt Chrome base for accurate restorations. |

| | |
|---|---|
| AZA-L | Standard Line Long<br>Titanium Abutment<br>with Plastic Sleeve |
| AZA-CC-L | Standard Line Long<br>Cobalt Chrome Abutment<br>with Plastic Sleeve |

| | |
|---|---|
| PAC-H | Standard Line<br>Burn-It Plastic Sleeve<br>for Laboratory, Anti-Rotational |
| NL-PAC-H | Narrow Line<br>Burn-It Plastic Sleeve<br>for Laboratory,<br>Anti-Rotational |

| | |
|---|---|
| PAC | Standard Line<br>Burn-It Plastic Sleeve<br>for Laboratory, **Rotational** |

**Ritter's AZA line** are made in both Chromium Cobalt and Titanium and are dual purpose as they can be used as Castable with Chromium Cobalt or a Ti-Base made from Titanium.

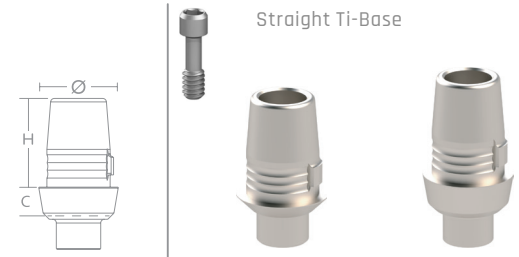
# Ti-Bases/Milling Blanks

## TI-Base/Tibase Cerec

## Prosthetics
## Scan Abutments and Ti-Bases

| | |
|---|---|
| ML-10-23 | Standard Line Millable Blanks with 2.42 Hex |
| NL-ML-10-23 | Narrow Line Millable Blanks with 2.0 Hex |

## Rotational




| | | |
|---|---|---|
| C | 0.5 mm | 1.5 mm |
| H | 4.7 mm | 4.7 mm |
| Ø | 4.2 mm | 4.2 mm |
| Art. No. | TBC-0.5R | TBC-1.5R |
| Narrow Line NL | NL-TBC-0.5R | NL-TBC-1.5R |

## Anti-Rotational


| | | | |
|---|---|---|---|
| C | 0.5 mm | 1.5 mm | 3 mm |
| H | 4.7 mm | 4.7 mm | 4.7 mm |
| Ø | 4.2 mm | 4.2 mm | 4.2 mm |
| Art. No. | TBC-0.5 | TBC-1.5 | TBC-3 |
| Narrow Line NL | NL-TBC-0.5 | NL-TBC-1.5 | NL-TBC-3 |

*** NOTICE: NOT ALL ITEMS OF THIS CATALOG ARE APPROVED FOR SALES IN ALL COUNTRIES. PLEASE CHECK THE IMPORT REGULATIONS OF YOUR TERRITORY.***

As technology has advanced – it has been discovered that cementing should no longer be performed in the mouth – so if you must cement out of the mouth then you need a hole in the crown to cement to the abutment – this was the advent of the "screw retained crown/restoration" and the birth of the Ti-Base. As milling technology became better and cheaper – custom abutments also became very popular – a custom abutment is a more expensive restorative option where the exact angle/height ect of the abutment is made specifically for the patient.

Those who continue to use the stock abutments-cemented out of the mouth – with a screw access whole – refer to this process as screw-mentable. Before there were Ti-Bases and customized abutments there were UCLA and Burn out abutments both were in the category of castable – used to cast gold or other metals into the shape of the custom abutment desired by the lab.

**UCLA abutments** are traditionally made from Titanium, Gold and Chromium Cobalt. Burn out abutments are made from plastic. For laboratories or Dentists who have titanium milling Machines – Ritter's ML – Milling blank will be used to make custom titanium abutment.

The **CD Ti-Base** has the ability to angle the screw hole towards the inside of the mouth where the screw access hole van be hidden from view. It uses a screw that has a different head and driver. TBC - Ti base Cerec. This product has made for dentist who own a cerec milling machine – this means they make the crowns in their office. They normally need to buy this from Cerec Sirona. Ritter sells it for a lower price and Ritter not only has this with 3 gingival heights – they only have one height – **but Ritter also makes this in rotational and non rotational! A dentist needs one rotational/non hexed if he is making one solid bridge over 2-3 Implants.**

# Titanium Abutments

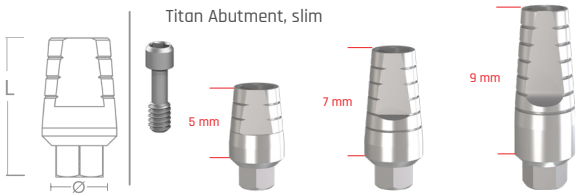
## Preparable Abutments, straight/angled

Traditionally these abutments are manufactured to encompass incremental heights, incremental gingival heights and incremental angles – while the crown would compensate/over compensate for intermediary angles/heights and be cemented to the abutment in the mouth.
The diameters, heights and shapes are to be decided by the dentist as to prepare and shape the gums for the final crown/prosthesis.

Titan Abutment, smooth


| L | 5 mm | 7 mm |
|---|---|---|
| Ø | 3.8 mm | 3.8 mm |
| **Art. No.** | SLTA-5 | SLTA-7 |

Titan Abutment, slim



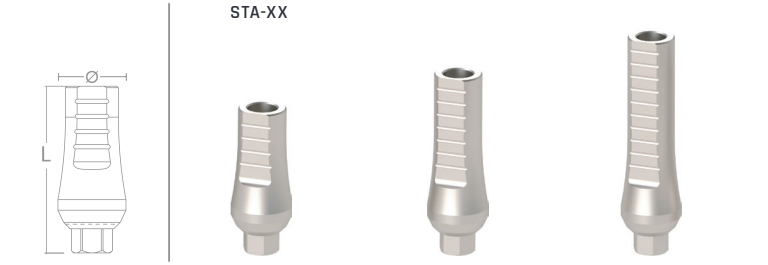

| L | 5 mm | 7 mm | 9 mm |
|---|---|---|---|
| Ø | 3.8 mm | 3.8 mm | 3.8 mm |
| **Art. No.** | SLTA-6 | SLTA-8 | SLTA-10 |

**Narrow Line NL**

NL-STA-10

Narrow Line
Straight Titanium Abutment
10 mm

**STA-XX**




| L | 9 mm | 12 mm | 15 mm |
|---|---|---|---|
| Ø | 4.5 mm | 4.5 mm | 4.5 mm |
| **Art. No.** | **STA-9** | **STA-12** | **STA-15** |

**STA-XXW**


| L | 9 mm | 12 mm |
|---|---|---|
| Ø | 5.5 mm | 5.5 mm |
| **Art. No.** | **STA-9W** | **STA-12W** |

Also available as STA-5 - L=5 mm and STA-7- L=7 mm

**Narrow Line NL**

NL-ATA-15

15°

Narrow Line
Titanium Abutment
15° Angled

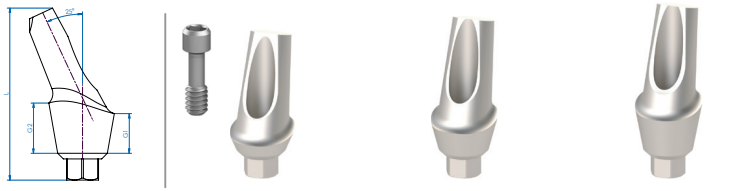
Inkl. TSA-8.3/NL-TSA-8.3 Titanium screw

# Titanium Abutments

## Preparable Abutments, angled

RITTER IMPLANTS™

EATA-XX Standard Line – 15° Angled Titanium Abutment
Anatomic Emergency Profile

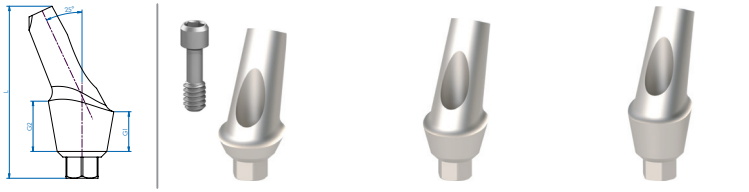


15°

| G1 | 1 mm | 2 mm | 3 mm |
|---|---|---|---|
| L | 9 mm | 10 mm | 11 mm |
| **Art. Nr.** | **EATA-15-1** | **EATA-15-2** | **EATA-15-3** |

Incl. TSA-8.3 Titanium screw

EATA-XX Standard Line – 25° Angled Titanium Abutment
Anatomic Emergency Profile

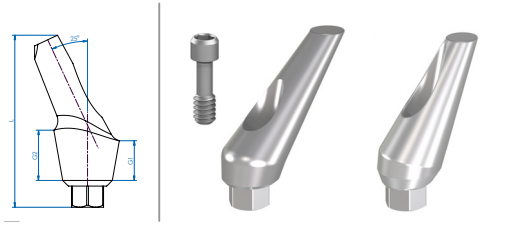


25°

| G1 | 1 mm | 2 mm | 3 mm |
|---|---|---|---|
| L | 9 mm | 10 mm | 11 mm |
| **Art. Nr.** | **EATA-25-1** | **EATA-25-2** | **EATA-25-3** |

Incl. TSA-8.3 Titanium screw

25°



| L | 9 mm | 9 mm |
|---|---|---|
| **Art. Nr.** | **ATA-25N** | **ATA-25** |

Incl. TSA-8.3 Titanium screw

# Titanium Abutments

## Preparable Abutments, straight

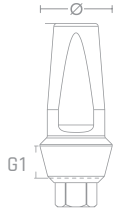

**SATA-X, SAGA-X Standard Line, straight Anatomic Emergency Profile Titanium Abutment**

| G1 | 1 mm | 2 mm | 3 mm |
|---|---|---|---|
| L | 8.9 mm | 9.9 mm | 10.9 mm |
| Ø | 4.5 mm | 4.5 mm | 4.5 mm |
| **Art. No.** | **SATA-1** | **SATA-2** | **SATA-3** |

All Abutments are supplied with TSA-8.3 Implant Level Screw OR for NL Line with NL-TSA-8.3 screw


**SSTA-XX Standard Line - Straight Titanium Abutment**
**Traditional Emergency Profile**

| G1 | 1 mm | 2 mm | 3 mm | 4 mm |
|---|---|---|---|---|
| Ø | 4.8 mm | 4.8 mm | 4.8 mm | 4.8 mm |
| **Art. No.** | **SSTA-1** | **SSTA-2** | **SSTA-3** | **SSTA-4** |
| **Narrow Line NL** | **NL-SSTA-1** | **NL-SSTA-2** | **NL-SSTA-3** | |




**ESPS-XX Standard Line - Straight Titanium Abutment,**
**Emergency Profile**

| G1 | 1 mm | 2 mm | 3 mm |
|---|---|---|---|
| Ø | 4.8 mm | 4.8 mm | 4.8 mm |
| **Art. No.** | **ESPS-1** | **ESPS-2** | **ESPS-3** |

Narrow Line - Straight Titanium Abutment - X mm Shoulder

# ABU
## Across Brand Usability

RITTER™ IMPLANTS

### Ritter Implants system has ABU with many other brands:

AB Dental
Adin
Alfa
Alpha Bio
Alpha Dent
Astra Tech
Axelmed
BEGO
Biohorizons
Cortex
Dentegris
Dentium
Dio
Ditron
Edison Medical
Hiossen
Implant Direct
iRes
JDentalCare
MegaGen
MIS
NeoBiotec
Nobel Biocare
Noris Medical
Osstem
Oxy
Paltop
Ritter Implants
SGS Dental
Spiral Tech
Straumann
Surgikor
TAG
TAV Dental
TRI Dental Implants AG
Zimmer

# Overdenture Abutments

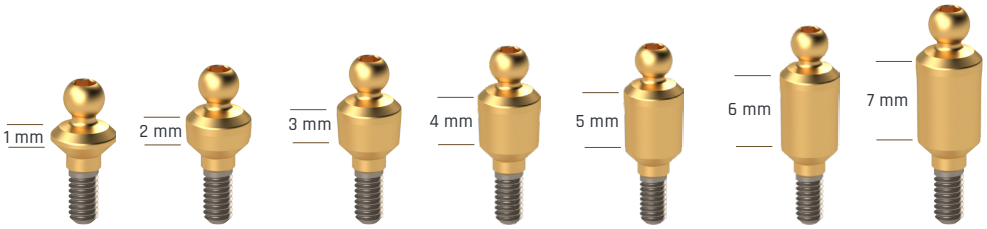
Overdenture abutments are simply abutments to anchor dentures to Implants. There are several types but they can be broken into two categories – removable and fixed.

Removable can be removed and replaced by the patient – simply snapping the denture into place, and unsnapping it whenever they want.

Fixed can only be removed by the Dentist and are mainly retained with screws.

# Ball Attachments and Accessories

As shown, ball attachments are screwed into the Implant to hold a denture in place – they were the first products invented to hold a denture in the mouth without glue. A metal cap is placed and imbedded into the plastic denture – aligning with the location of where the ball attachment will protrude from the Implant. The polyamide inserts are simply shock absorbers.
These products were originally designed to place 2 implants on each side of the mouth.




| Art. No. | BA-1 | BA-2 | BA-3 | BA-4 | BA-5 | BA-6 | BA-7 |
|---|---|---|---|---|---|---|---|
| Narrow Line NL | NL-BA-1 | NL-BA-2 | NL-BA-3 | NL-BA-4 | | | |

**Description** Ball-Attachment, Titanium nitride coated, incl. 1 SCB-P, 1 BA-SP, 1 – MCB Metal Cap

NL = Narrow Line for 3.0 & 3.3 mm ø Implants

| Art. No. | SCB-T | **SCB-P** | SCB-Y | SCB-G | SCB-B | BA-SP | MCB |
|---|---|---|---|---|---|---|---|

+++ REPLACEMENT KITS OF CAPS WILL COME BY 4 PCS. THE MCB METAL CAP COMES SINGLE PACKED +++

BA-X comes with 3 components – the caps are inserted in the full arch overdenture.

1 BA-X
1 SCB-P,
1 MCB Metal Cap

**Polyamide Caps for Ball Attachment (SCB)**

| | |
|---|---|
| SCB-T: | Transparent (4 pcs.): slightly elastic, retention 2.5–2.9 lbs (1.13–1.32 kg) |
| **SCB-P:** | Pink (4 pcs.): elastic, retention 1.75–2.0 lbs (0.79–0.90 kg) - **STANDARD INCLUDED** |
| SCB-Y: | Yellow (4 pcs.): very elastic, retention 1.0–1.3 lbs (0.45–0.6 kg) |
| SCB-G: | Green (4 pcs.): extremely elastic, retention <1 lbs (<0.45 kg) |
| SCB-B: | Black (4 pcs.): for laboratory use only |
| BA-SP: | Separator O-Rings for Ball Attachment and Clicq™ Overdenture |
| MCB: | Metal Insert cap for Ball Attachment Prosthesis |

# Overdenture Abutments

## Removable LOCATOR® System by ZEST®

## LOCATOR® R-Tx

.5 mm R-Tx | 1 mm R-Tx | 2 mm R-Tx | 3 mm R-Tx | 4 mm R-Tx | 5 mm R-Tx

In 1972 The Zest Locator Company perfected the Overdenture Abutment and patented the Locator. The original Locator was proven to provide better retention than the ball attachment and remains the most popular overdenture abutment in the world. They use the same principle as the ball attachment with a metal cap and silicon inserts for cushioning. We do not make these so the screw driver is different. Also Note it is expensive and all parts are sold separately. In Recent years the Zest Corporation has launched two new versions of the Locator.

In an effort to offer a wider range of angle correction they produced the R-TX. The top portion of the abutment allows the metal housing to swivel. The thought was they could give the same retention and allow for greater angulation in Implant placement.

*** They really needed to make an angled version, but made this option instead.

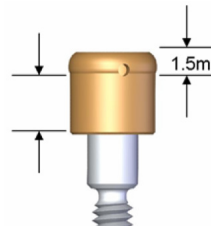
| Art. No. | LOCATOR R-TX ATTACHMENT SYSTEM |
|---|---|
| 31500-04-SB | LOCATOR R-TX Attachment System, 3.0 mm Internal Hex Connection, 4.0 mm Cuff |
| 30200-00-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 0.5 mm Cuff |
| 30200-01-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 1 mm Cuff |
| 30200-02-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 2 mm Cuff |
| 30200-03-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 3 mm Cuff |
| 30200-04-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 4 mm Cuff |
| 30200-05-SB | LOCATOR R-TX Attachment System, 3.5 mm Internal Hex Connection, 5 mm Cuff |

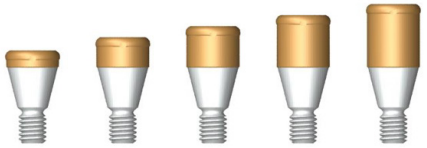
| Art. No. | LOCATOR R-TX ATTACHMENTS & ACCESSORIES |
|---|---|
| 30002-01 | LOCATOR R-TX Low Retention Insert, Blue, Includes 4 |
| 30003-01 | LOCATOR R-TX Medium Retention Insert, Pink, Includes 4 |
| 30004-01 | LOCATOR R-TX High Retention Insert, Clear, Includes 4 |
| 30021-01 | LOCATOR R-TX Retention Insert Tool |
| 30053-01 | LOCATOR R-TX 4x Macro Model |

# Removable LOCATOR® Attachment System



Order the cuff height according to Height of the Soft tissue in mm




Measurement for the height of the tissue sleeve: The height of the LOCATOR® Tissue Cuff ranges from 1–5 mm (platform to the bottom of the 1.5 mm coronal section).

The upper section, 1.5 mm of each locator is the same. The transition to the platform (EN) and the connection is different.

| Art. No. | LOCATOR® ABUTMENTS for Ritter Implants |
|---|---|
| 02284-RT-SB | LOCATOR Abutment 1.0 mm Cuff for Ritter Implants Standard Platform |
| 02285-RT-SB | LOCATOR Abutment 2.0 mm Cuff for Ritter Implants Standard Platform |
| 02286-RT-SB | LOCATOR Abutment 3.0 mm Cuff for Ritter Implants Standard Platform |
| 02287-RT-SB | LOCATOR Abutment 4.0 mm Cuff for Ritter Implants Standard Platform |
| 02288-RT-SB | LOCATOR Abutment 5.0 mm Cuff for Ritter Implants Standard Platform |
| NL-02308-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 0.75 mm, final packing |
| NL-02309-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 2 mm, final packing |
| NL-02310-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 3 mm, final packing |
| NL-02311-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 4 mm, final packing |
| NL-02312-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 5 mm, final packing |
| NL-02313-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 5 mm, final packing |
| NL-02313-RT-SB | LOCATOR Abutment for intern. Hex Ø: 3 mm, Cuff: 6 mm, final packing |
| NL = Narrow Line for 3.0 & 3.3 mm ø Implants | |

Interocclusal distance:

Less than 3.2 mm for external hex and 2.5 mm for implants with internal connection (with 0 mm cuff height).

Bar:

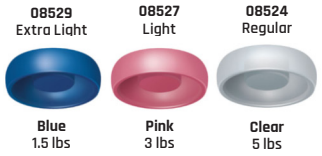
08026

Yellow at
Bar constructions

Denture insert
08510-RT-SB

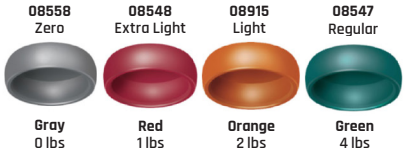
| Art. No. | LOCATOR® ABUTMENTS for Ritter Implants |
|---|---|
| 08393-RT-SB | LOCATOR Core Tool |
| 08390-RT-SB | LOCATOR Abutment Driver, gold |
| 08519-2-RT-SB | LOCATOR Plug Processing Set, 4 Pieces |
| 08505-RT-SB | LOCATOR Impression Coping, 4 Pieces |
| 08510-RT-SB | LOCATOR Replacement Denture Cap, Metal, 4 Pieces |
| 08530-RT-SB | LOCATOR Analogs 4 mm ø, 4 Pieces |
| 08519-10-RT-SB | Male Processing Package, Includes 10 |
| 08524-RT-SB | LOCATOR Denture Cap, clear, 4 Pieces |
| 08527-RT-SB | LOCATOR Denture Cap, light adhesion, pink, 4 Pieces |
| 08529-RT-SB | LOCATOR Denture Cap, extra light adhesion, blue, 4 Pieces |
| 08547-RT-SB | LOCATOR Denture Cap, green, 4 Pieces |
| 08915-RT-SB | LOCATOR Denture Cap, orange, 4 Pieces |
| 08548-RT-SB | LOCATOR Denture Cap, extra light adhesion, red, 4 Pieces |
| 08558-RT-SB | LOCATOR Denture Cap, no adhesion, gray, 4 Pieces |
| 08517-RT-SB | LOCATOR Parallel Post, 4 Pieces |
| 08515-RT-SB | LOCATOR Black Plug Processing Set, 4 Pieces |
| 09530-RT-SB | LOCATOR Angle measurement guide |
| 09566-RT-SB | Chairside Attachment Processing Material |
| 08260-RT-SB | LOCATOR 35 Ncm Torque Screwdriver, 15 mm |

Standard Line:




0–10° Angle

Extended Line:



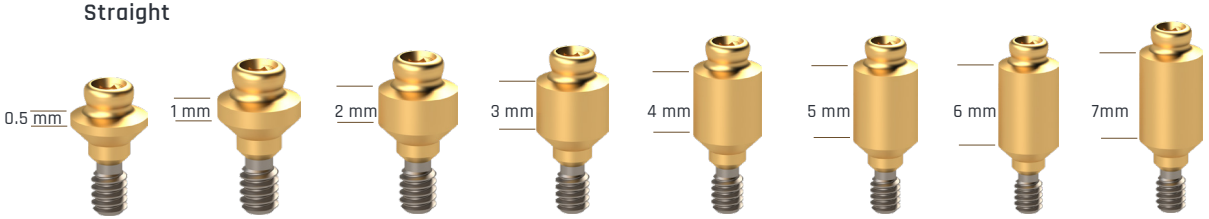

> 10° Angle to 20° per Implant

# Removable Overdenture Abutments

## Clicq™

**The Clicq™ overdenture** is known around the world as an Equator – this type of product was produced to compete with the Original Zest Locator without violating their patents.

### Straight




| Art. No. | COD-0.5 | COD-1 | COD-2 | COD-3 | COD-4 | COD-5 | COD-6 | COD-7 |
|---|---|---|---|---|---|---|---|---|
| Narrow Line NL | NL-COD-0.5 | NL-COD-1 | NL-COD-2 | NL-COD-3 | NL-COD-4 | NL-COD-5 | NL-COD-6 | |

**Description** Clicq™ Set: Titanium nitride coated, incl. SCL-T, SCL-P, SCL-Y, SCL-B, 1 - BA-SP, 1 - MC-COD

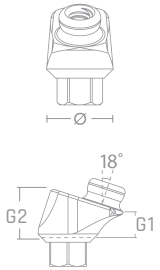
**Reason#15/16/17**

- More narrow profile #15
- Angled Versions available #16
- All the processing parts included #17

### Angled Clicq™ 18° – K=Kit

18°

Included TSAMU, NL-TSAMU Screw

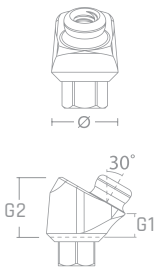



| | | | | |
|---|---|---|---|---|
| G2 | 2.5 mm | 3.5 mm | 4.5 mm | 5.5 mm |
| G1 | 1 mm | 2 mm | 3 mm | 4 mm |
| Ø | 3.85 mm | 3.85 mm | 3.85 mm | 3.85 mm |
| Art. No. | COD-18-1 | COD-18-2 | COD-18-3 | COD-18-4 |
| Narrow Line NL | NL-COD-18-1 | NL-COD-18-2 | NL-COD-18-3 | NL-COD-18-4 |

### Angled Clicq™ 30° – K=Kit

30°

Included TSAMU, NL-TSAMU Screw




| | | | | |
|---|---|---|---|---|
| G2 | 3.5 mm | 4.5 mm | 5.5 mm | 6.5 mm |
| G1 | 1 mm | 2 mm | 3 mm | 4 mm |
| Ø | 3.85 mm | 3.85 mm | 3.85 mm | 3.85 mm |
| Art. No. | COD-30-1 | COD-30-2 | COD-30-3 | COD-30-4 |
| Narrow Line NL | NL-COD-30-1 | NL-COD-30-2 | NL-COD-30-3 | NL-COD-30-4 |

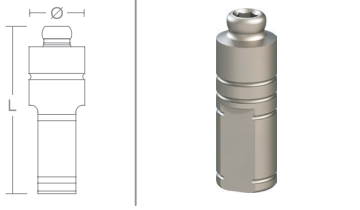
# Removable Overdenture Abutments

## Clicq™/Analog and Accessories

### Content of the COD-X KIT includes:

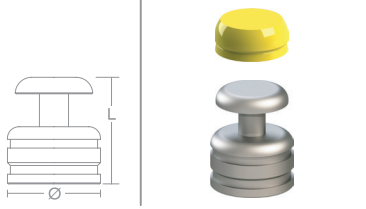
1 x COD-X (size)
4 x SCL Retentive Caps, each B/Y/P/T
1 x MC-COD Metal Housing
1 x BA-SP Disk

Clicq™ Analog Abutment



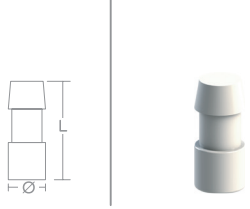
| | |
|---|---|
| L | 12.3 mm |
| Ø | 3.8 mm |
| **Art. No** | COD-IA |

Clicq™ Pick-Up Impression Transfer



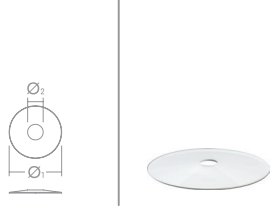
| | |
|---|---|
| L | 5.6 mm |
| Ø | 4.6 mm |
| **Art. No.** | COD-PIT |

Clicq™ Impression Transfer



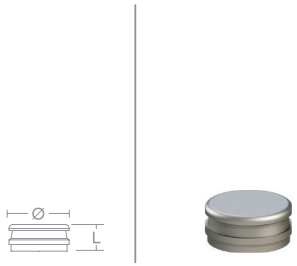
| | |
|---|---|
| L | 3.7 mm |
| Ø | 8.7 mm |
| **Art. No.** | COD-IT |

Clicq™ Protective Disk (4 pcs/pack)



| | |
|---|---|
| Ø1 | 8 mm |
| Ø2 | 2 mm |
| **Art. No.** | BA-SP |

Clicq™ Metal Housing (2 pcs/pack)



| | |
|---|---|
| L | 2 mm |
| Ø | 4.5 mm |
| **Art. No.** | MC-COD |

Clicq™ Retentive Cap (4 pcs/pack)

+++ REPLACEMENT KITS OF CAPS WILL COME BY 4 PCS. THE MC-COD METAL CAP COMES SINGLE PACKED +++

| | Lab use only Black laboratory | Extra Soft Yellow 1.3 lbs (0.6 kg) | Soft Pink 2 lbs (1.2 kg) | Standard Transparent 4 lbs (1.8 kg) | Strang Violet 6 lbs (2.7 kg) |
|---|---|---|---|---|---|
| L | 1.7 mm | 1.7 mm | 1.7 mm | 1.7 mm | 1.7 mm |
| Ø | 3.8 mm | 3.8 mm | 3.8 mm | 3.8 mm | 3.8 mm |
| **Art. No.** | SCL-B | SCL-Y | SCL-P | SCL-T | SCL-V |

Insertion & Extraction Tool for Overdenture Attachments

Suitable for all Overdenture Lines

| | |
|---|---|
| **Art. No.** | COD-INS |

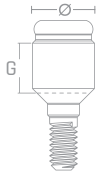
# Removable Overdenture Abutments

## Clicq™ PLUS

**The Clicq™ overdenture Plus** was created for the Dentist to have a wider option of the Abutment- this has the Same Principle purpose as Ball Attachments, Zest Locator, and Clicq™. **More than one option for angled Overdenture abutments is makes Ritter unique.**

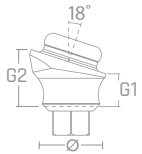
**Reason#18**

COD-XP Straight



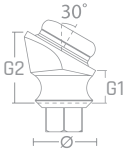

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| G | 0.5 mm | 1 mm | 2 mm | 3 mm | 4 mm | 5 mm | 6 mm | 7 mm |
| Ø | 4.1 mm | 4.1 mm | 4.1 mm | 4.1 mm | 4.1 mm | 4.1 mm | 4.1 mm | 4.1 mm |
| Art. No. | COD-0.5P | COD-1P | COD-2P | COD-3P | COD-4P | COD-5P | COD-6P | COD-7P |
| Narrow Line NL | NL-COD-0.5P | NL-COD-1P | NL-COD-2P | NL-COD-3P | NL-COD-4P | NL-COD-5P | NL-COD-6P | NL-COD-7P |

Angled 18° 18°




| | | | | |
|---|---|---|---|---|
| G2 | 2.1 mm | 2.6 mm | 3.6 mm | 4.6 mm |
| G1 | 0.5 mm | 1 mm | 2 mm | 3 mm |
| Ø | 5.2 mm | 5.2 mm | 5.2 mm | 5.2 mm |
| Art. No. | COD-18-0.5P | COD-18-1P | COD-18-2P | COD-18-3P |
| Narrow Line NL | NL-COD-18-0.5P | NL-COD-18-1P | NL-COD-18-2P | NL-COD-18-3P |

Angled 30° 30°




| | | | | |
|---|---|---|---|---|
| G2 | 3.1 mm | 3.6 mm | 4.6 mm | 5.6 mm |
| G1 | 0.5 mm | 1 mm | 2 mm | 3 mm |
| Ø | 5.2 mm | 5.2 mm | 5.2 mm | 5.2 mm |
| Art. No. | COD-30-0.5P | COD-30-1P | COD-30-2P | COD-30-3P |
| Narrow Line NL | NL-COD-30-0.5P | NL-COD-30-1P | NL-COD-30-2P | NL-COD-30-3P |

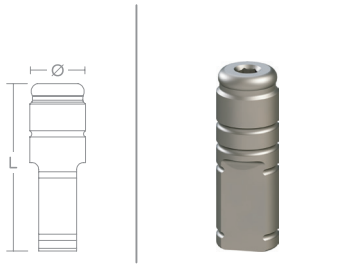
# Removable Overdenture Abutments

## Clicq™ PLUS/Analog and Accessories

### Content of the COD-XP KIT includes:

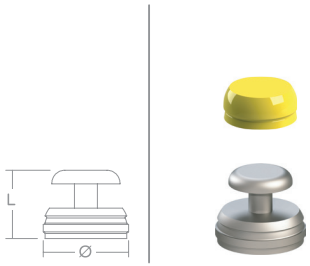
1x COD-XP (size)
4 x CODP Retentive Caps, each B/Y/P/T
1x MC-CODP Metal Housing
1x CODP-PD Disk

**Clicq™ PLUS Analog Abutment**



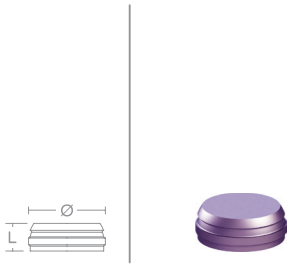
| | |
|---|---|
| L | 12.3 mm |
| Ø | 3.8 mm |
| **Art. No.** | CODP-AN |

**Clicq™ PLUS Pick-Up Impression Transfer**



| | |
|---|---|
| L | 5.6 mm |
| Ø | 4.6 mm |
| **Art. No.** | CODP-PIT |

**Clicq™ PLUS Metal Housing (2 pcs/pack)**

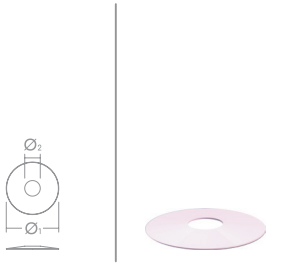


| | |
|---|---|
| L | 2 mm |
| Ø | 4.5 mm |
| **Art. No.** | MC-CODP |

**Clicq™ PLUS Retentive Cap (4 pcs/pack)**

| | Lab use only Black laboratory | Extra Soft Yellow 1.3 lbs (0.6 kg) | Soft Pink 2 lbs (1.2 kg) | Standard Transparent 4 lbs (1.8 kg) | Strang Violet 6 lbs (2.7 kg) |
|---|---|---|---|---|---|
| L | 1.7 mm | 1.7 mm | 1.7 mm | 1.7 mm | 1.7 mm |
| Ø | 3.8 mm | 3.8 mm | 3.8 mm | 3.8 mm | 3.8 mm |
| **Art. No.** | CODP-RCB | CODP-RCY | CODP-RCP | CODP-RCT | CODP-RCV |

**Clicq™ PLUS Protective Disk (4 pcs/pack)**



| | |
|---|---|
| Ø1 | 8 mm |
| Ø2 | 2 mm |
| **Art. No.** | CODP-PD |

**Insertion & Extraction Tool for Overdenture Attachments**

Suitable for all Overdenture Lines

| | |
|---|---|
| **Art. No.** | COD-INS |

+++ REPLACEMENT KITS OF CAPS WILL COME BY 4 PCS. THE MC-CODP METAL CAP COMES SINGLE PACKED +++

SABLE INDUSTRIES INC.

RITTER™ IMPLANTS

Reason#22

# Ritter Implants were the first to transition a patient from a removable Denture to an “all on X”. Why?

Because a removable case can be planned with the “Angled Clicq™” Abutments.

# Screw Receiving Multi Unit Abutments

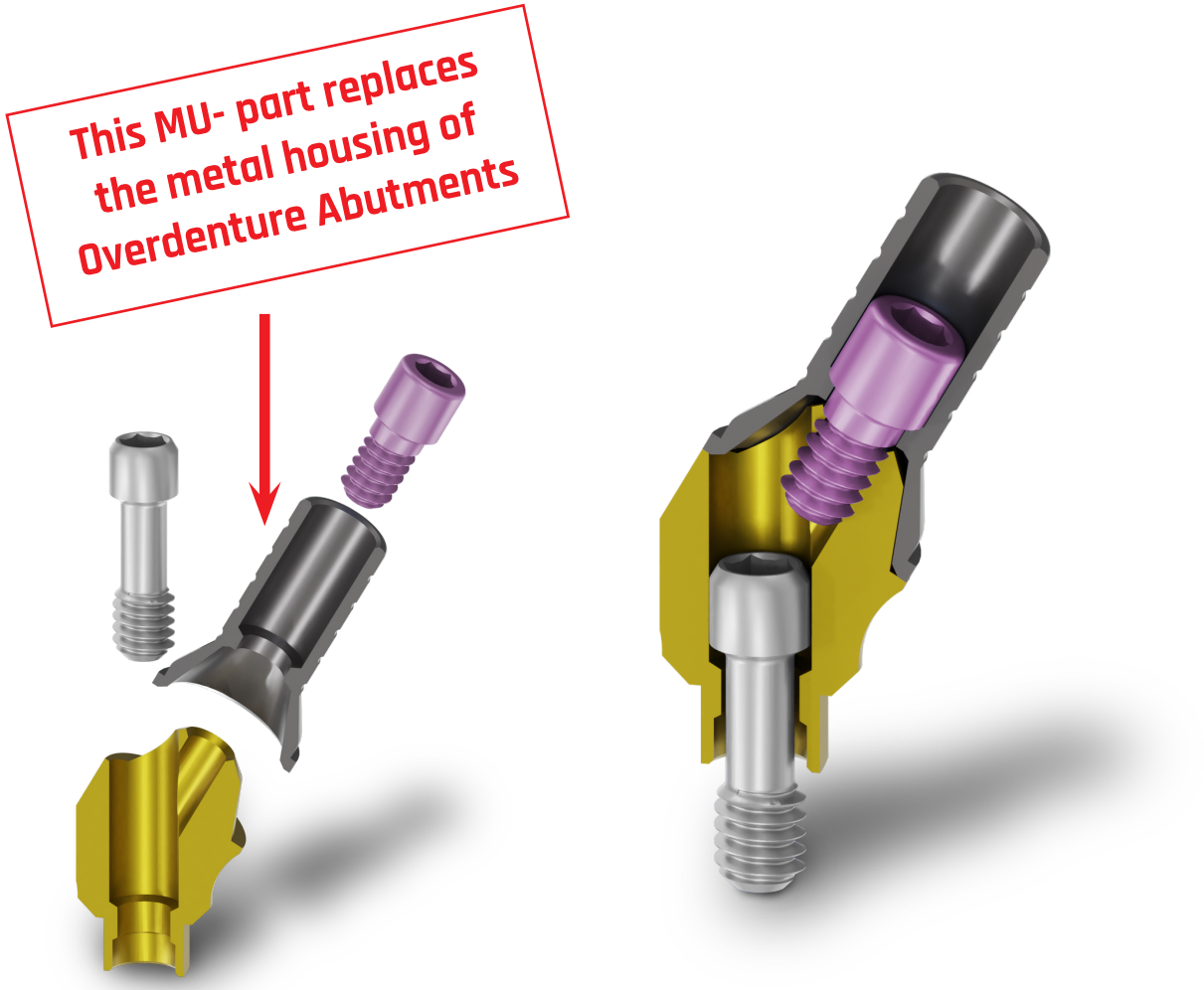
Multi Unit Abutments (MUA) were created by Nobel Biocare® for the concept of replacing all teeth with a full porcelain or Zirconia Bridge instead of a plastic Denture over 4 Implants. **This procedure was called "All on 4®".**

This procedure involved at least placing two posterior Implants at a minimum of at least a **17 Degree angle and 2 more at any angle.** The angulation is required for cross arch stability.

**It is now known to be called all on X because 6-8 Implants are now being used.**

Multi unit abutments are designed so that the teeth (denture/bridge/prosthesis) can be removed without removing the actual abutments from the implants.

They are similar to the overdenture principle in that a part must be fused or cemented into the prosthesis just like the metal housing in an overdenture. However the attachments for Multi units are traditionally titanium cylinders with screw access holes – these parts are screwed into the multi unit abutments instead of being snapped onto overdenture abutments.



# Screw Receiving Multi Unit Abutments

## One Piece Multi-Unit Abutments, straight and angled Multi-Unit KS-System

Ritter Multi Abutments have been manufactured with a wider stronger M1.6 screw instead of a M1.4 screw that most companies use on Multi unit restorations. **Ritter offers this packaged with very commonly used accessories making it simple for a dentist to order parts. #19** Ritter makes this for its **3.0 and 3.3 Narrow line platform #20** and most companies narrow platform are strong enough to support this type of abutment on such narrow Implants.

**Reason#19, 20**

Includes TSAMU Titanium Screw for one piece angled Multi Unit
Includes MU-KSTS Titanium Screw & MU-HD Holder
for one piece angled Multi Unit

MU-KS10
NL-MU-KS10

Standard Line
Straight Multi Unit
1 mm Shoulder

MU-KS20
NL-MU-KS20

Standard Line
Straight Multi Unit
2 mm Shoulder

MU-KS30
NL-MU-KS30

Standard Line
Straight Multi Unit
3 mm Shoulder

MU-KS40
NL-MU-KS40

Standard Line
Straight Multi Unit
4 mm Shoulder

Also available:
MU-KS50, NLMU-KS50

### 17°

MU-KS1710
NL-MU-KS1710

Standard Line
17° angled Multi Unit
1.1 mm/2.5 mm Shoulder
(G1/G2)

MU-KS1720
NL-MU-KS1720

Standard Line
17° angled Multi Unit
2.1 mm/3.5 mm Shoulder
(G1/G2)

MU-KS1710H

Standard Line
17° angled Multi Unit
1.1 mm/2.5 mm Shoulder
(G1/G2)
with Anti-rotation

MU-KS1720H

Standard Line
17° angled Multi Unit
2.1 mm/3.5 mm Shoulder
(G1/G2)
with Anti-rotation

Also available:
MU-KS1730, NL-MU-KS1730
MU-KS1740, NL-MU-KS1740

### 30°

MU-KS3010
NL-MU-KS3010

Standard Line
30° angled Multi Unit
1.1 mm/3.5 mm Shoulder
(G1/G2)

MU-KS3020
NL-MU-KS3020

Standard Line
30° angled Multi Unit
2.1 mm/4.5 mm Shoulder
(G1/G2)

MU-KS3010H

Standard Line
30° angled Multi Unit
1.1 mm/3.5 mm Shoulder
(G1/G2)
with Anti-rotation

MU-KS3020H

Standard Line
30° angled Multi Unit
2.1 mm/4.5 mm Shoulder
(G1/G2)
with Anti-rotation

Also available:
MU-KS3030, NL-MU-KS3030
MU-KS3040, NL-MU-KS3040

# Screw Receiving Multi Unit Abutments

## One Piece Multi-Unit Abutments, straight and angled Multi-Unit KS-System

RITTER IMPLANTS

### Multi Unit Sets/Kits including all necessary components = K

MU-KS10K
NL-MU-KS10K

Multi Unit Kit
1 mm Shoulder height

MU-KS20K
NL-MU-KS20K

Multi Unit Kit
2 mm Shoulder height

MU-KS30K
NL-MU-KS30K

Multi Unit Kit
3 mm Shoulder height

MU-KS40K
NL-MU-KS40K

Multi Unit Kit
4 mm Shoulder height

Also available:
MU-KS50K, NLMU-KS50K

### 17°

MU-KS1710K
NL-MU-KS1710K

17° angled Multi Unit Kit
1 mm/2.4 mm Shoulder height
(G1/G1)

MU-KS1720K
NL-MU-KS1720K

17° angled Multi Unit Set
2 mm/3.3 mm Shoulder height
(G1/G1)

### 30°

MU-KS3010K
NL-MU-KS3010K

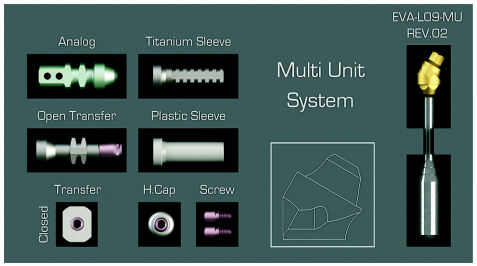
30° angled Multi Unit Kit
1 mm/3.3 mm Shoulder height
(G1/G1)

MU-KS3020K
NL-MU-KS3020K

30° angled Multi Unit Kit
2 mm/4.4 mm Shoulder height
(G1/G1)

Also available:
MU-KS1730K, NL-MU-KS1730K, MU-KS1740K, NL-MU-KS1740K
MU-KS3030K, NL-MU-KS3030K, MU-KS3040K, NL-MU-KS3040K

### Multi Unit Set Components




Includes: Healing Cap, open and closed Transfer, Plastic Sleeve, Titanium Sleeve, Analog & 2 Screws

| | |
|---|---|
| 1x MU-KSxxxx | Multi Unit Abutment |
| 1x MU-KSTST | Screw |
| 1x MU-KSOTT | open impression |
| 1x MU-KSPT | closed impression |
| 1x MU-KSAN | Analog Abutment |
| 1x MU-KSHC | Healing cap |
| 1x MU-KSSLP | Plastic sleeve |
| 1x MU-KSSL | Titanium sleeve |
| 2x MU-KSTS | Screw |

Note: Illustration for display purposes only. The items are supplied in blister packaging. In some Countries items can be supplied in the Kit/Tray above.

Includes TSAMU Titanium Screw for one piece angled Multi Unit
Includes MU-KSTS Titanium Screw & MU-HD Holder for one piece angled Multi Unit

# Screw Receiving Multi Unit Abutments

## One Piece Multi Unit Abutments, straight and angled Multi Unit KS-System, Accessories

MU-KSAN

Analog Abutment for
Multi Unit KS System
(Cone with M 1.6 X 0.35),

MU-KSPT

Closed Plastic Transfer for
Multi Unit KS System
(Assembled with MU-KSTS Titanium
Screw MU-KSPTB Basis for closed Transfer)

MU-KSOTT

Open Transfer for
Multi Unit KS System
(MU-KSTSOT
Titanium Screw included)

MU-KSTS

Titanium Screw for
Multi Unit Cone ABUTMENT LEVEL
M 1.6 X 0.35 - KS System

MU-KSHC

Healing Cap for
Multi Unit KS System
(Assembled with
MU-KSTS Titanium Screw)

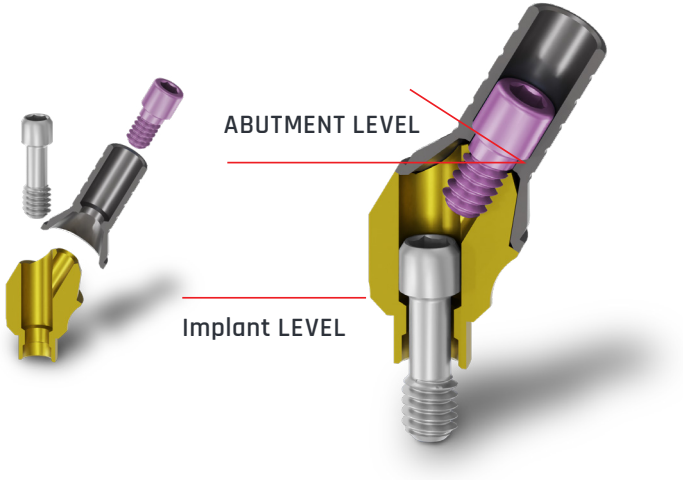
MU-KSSL

Titanium Sleeve for
Multi Unit KS System
(MU-KSTST includes)

MU-KSSLP

Plastic Sleeve for
Multi Unit KS System
(MU-KSTS
Titanium Screw includes)

The accessories are all used for the descriptions previously shown in Single units but are all **ABUTMENT LEVEL ACCESSORIES** and can only be used for Ritter MUA.




MU-KSAC-R
Prosthetic Cap, rotating
(MU-KSTS Titanium Screw includes)

MU-KSAC-AR
Prosthetic Cap, non-rotating
For single restoration
(MU-KSTS Titanium Screw includes)

# Screw Receiving Multi Unit Abutments

## One Piece Multi Unit Abutments, straight and angled Multi-Unit KS-System

RITTER IMPLANTS™

MUL-ZI-RPPK

NL-MUL-ZI-RPPK

### Multi Unit Professional Kit Parts:

Accessories Included

| Item Code | Description | QTY |
|---|---|---|
| MU-KSAN | Analog Abutment | 6 |
| MU-KSOTT | Open Tray Transfer | 6 |
| MU-KSSL | Titanium Sleeve | 6 |
| MU-KSPT | Closed Tray Transfer | 6 |
| MU-KSHC | Healing Cap Includes Screw | 6 |
| MU-KSSLP | Plastic Sleeve | 6 |
| MU-KSAC-R | Rotational Adhesive Cap | 2 |
| MU-KSAC-AR | Anti Rotational Adhesive Cap | 2 |
| MU-KSTS | Screw for Cone Connection | 10 |
| HHDA | Screw Driver | 1 |
| MU-KSSB | Scan Body | 1 |

### Abutments Included

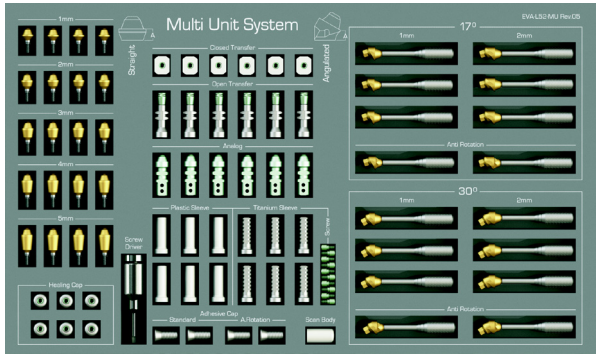
Includes Screw MU-KSTS and Carrier MU-HD not sold individually:

| Item Code | QTY | Also available in Narrow Line NL |
|---|---|---|
| MU-KS10 | 4 | NL-MU-KS10 |
| MU-KS20 | 4 | NL-MU-KS20 |
| MU-KS30 | 4 | NL-MU-KS30 |
| MU-KS40 | 4 | NL-MU-KS40 |
| MU-KS50 | 4 | NL-MU-KS50 |
| MU-KS1710 | 3 | NL-MU-KS1710 |
| MU-KS1720 | 3 | NL-MU-KS1720 |
| MU-KS1710H | 1 | NL-MU-KS1710H |
| MU-KS1720H | 1 | NL-MU-KS1720H |
| MU-KS3010 | 3 | NL-MU-KS3010 |
| MU-KS3020 | 3 | NL-MU-KS3020 |
| MU-KS3010H | 1 | NL-MU-KS3010H |
| MU-KS3020H | 1 | NL-MU-KS3020H |

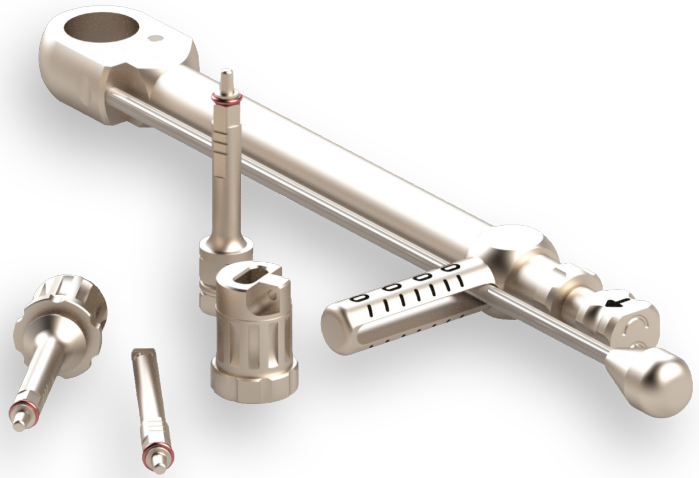
*** NOTICE: NOT ALL ITEMS OF THIS CATALOG ARE APPROVED FOR SALES IN ALL COUNTRIES. PLEASE CHECK THE IMPORT REGULATIONS OF YOUR TERRITORY.***

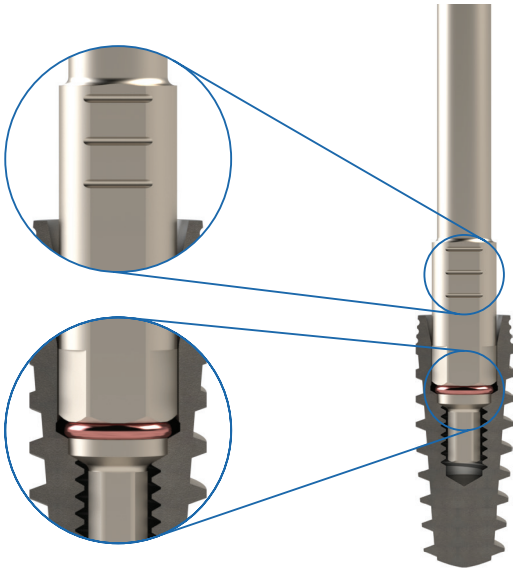
This special Kit Comes with **36 Abutments** so the doctor does not have to open several packages – this makes complicated procedure much easier!

**Reason#21**



# Surgery





Many insertion tools/motor mounts are provided with a fixing mechanism to prevent loss of the temporary attachment and gingiva height markings in mm increments – for better orientation of the insertion depths.

# Compact Surgical Kit

Art. No. RIBUS-SE

Art. No. RIBUS-SE

## Compact Surgical Kit

This Compact Surgical Kit contains all basic tools and drills to place all Ritter SB/LA Implants and system components. **The drill stop function is provided by stopper sleeves.**

**#23**

This is our Compact Kit and this kit is very similar to most Surgical kits on the Market. It comes with Limited amounts of Drills, one for each Implant Diameter (part # DEP). But unlike most – **this kit comes with the tools to place both Ritter Platforms.**

**#24**

**In addition it contains Manually applied Drill Stoppers – most companies do not include (part #'s DS-6-13)**

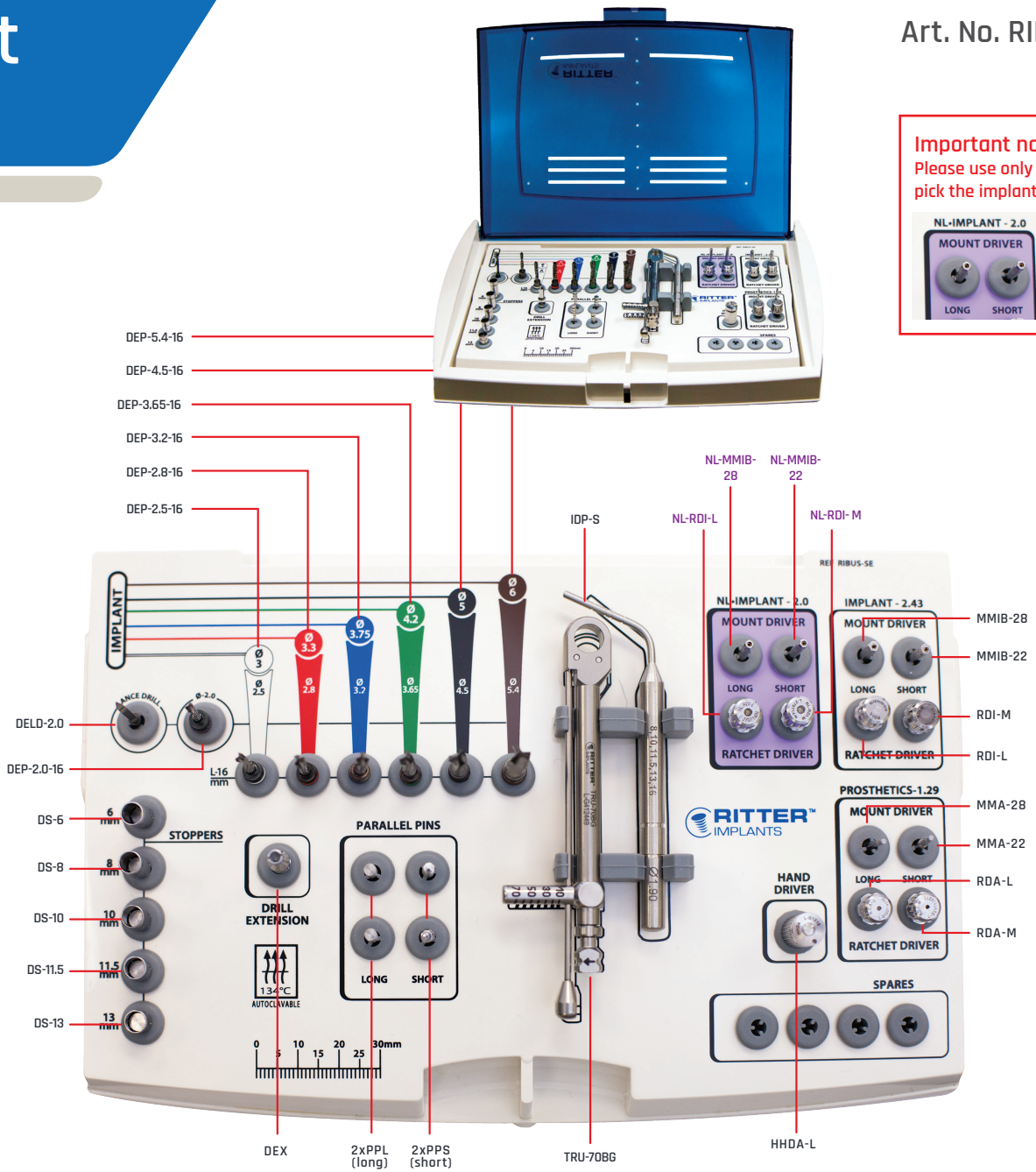
All placing tools are included – MMIB are for the Handpiece RDI are for the included torque Ratchet (Tru-70)

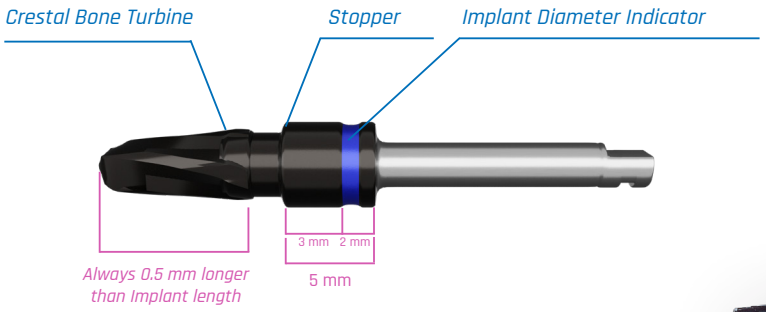
**The Kit also has prosthetic drivers for both the ratchet and the Handpiece – most companies force you to purchase an additional kit.**

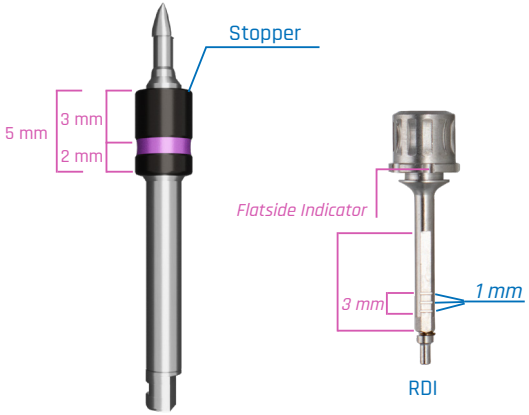
**#25**

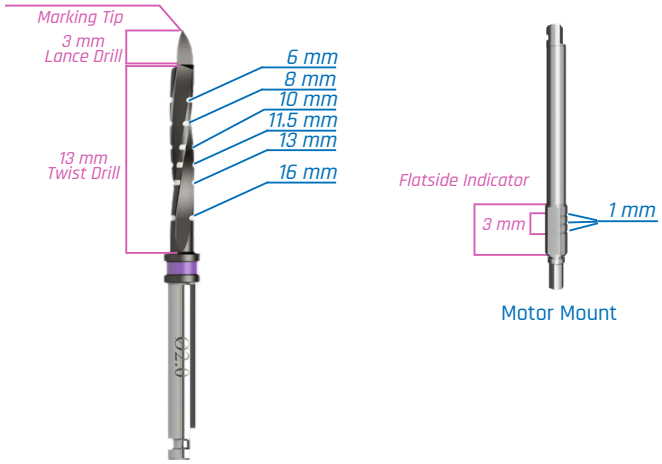
**Reason#23, 24, 25**

**Important note:**
Please use only these tools to pick the implant from the tube!







## Complete Surgical Kit
## Art. No. RIBEU-PE

# Complete Surgical Kit

## Art. No. RIBEU-PE (Rev. 7.0)

Our Complete surgical kit is second to no one. It contains all the items of the Compact Kit – except the **Stoppers are built into each drill** – there is a drill for every Implant we produce and more!

**#26**

**This comes with our exclusive 3 in one – Starter/Marking/ Lance Drill.**

**#27**

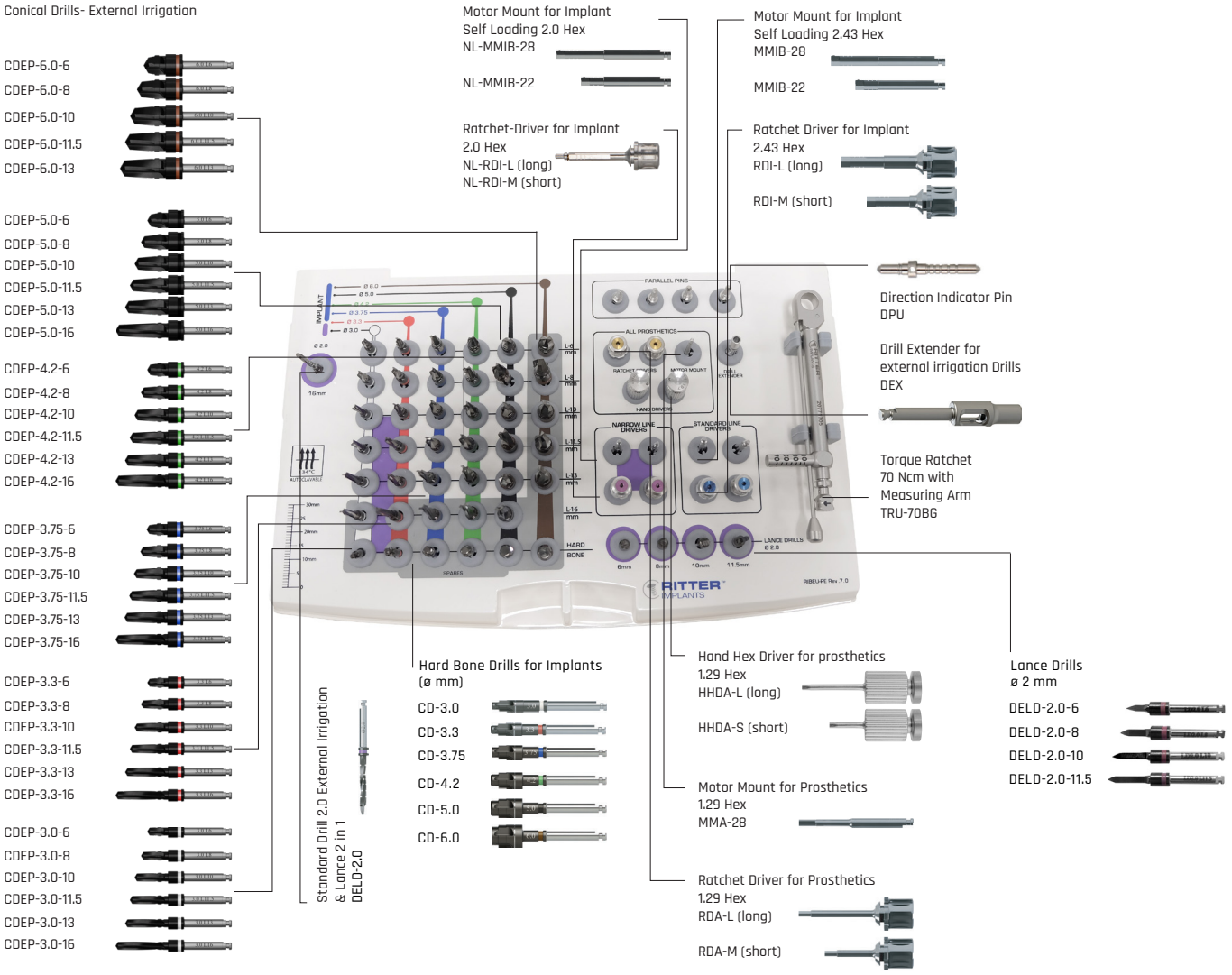
**Along with all the special measuring and registration markings on all tools.**

**#28**

**All Implant drivers are spring loaded – making it Impossible for an Implant to fall down a persons throat!**

**#29**

**Reason#26, 27, 28, 29**

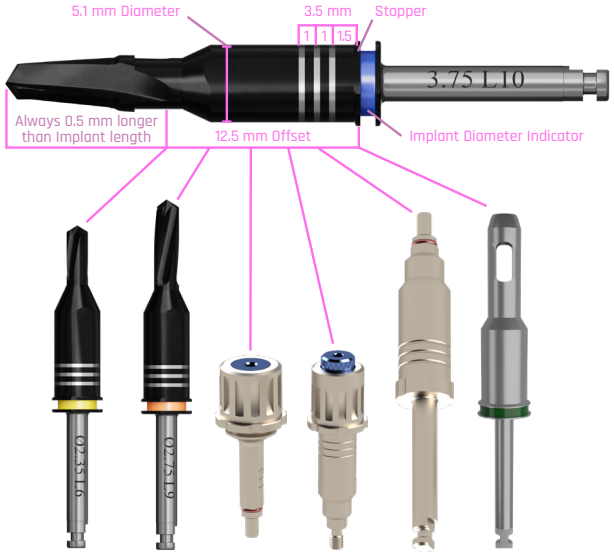


# Fully Guided navigated surgical kit

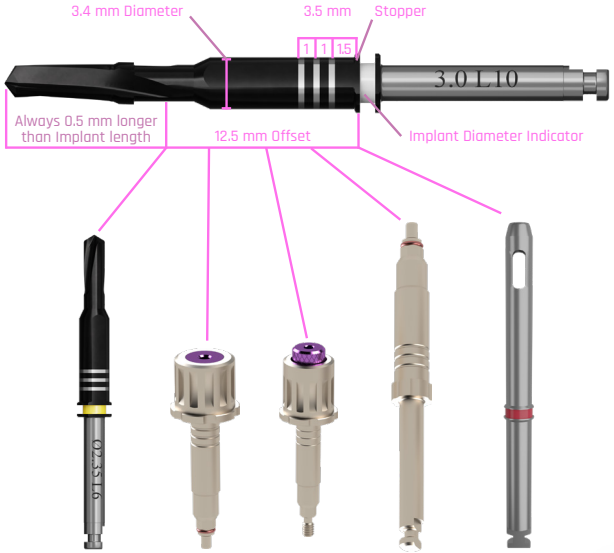
## Art. No. GS-KIT (Rev. 2.2)

This guided system contains all the tools and drills necessary to perform a guided operation with all diameters except 6 mm, including narrow line.
Class IIa (CE1023) Category

### STANDARD LINE




### NARROW LINE

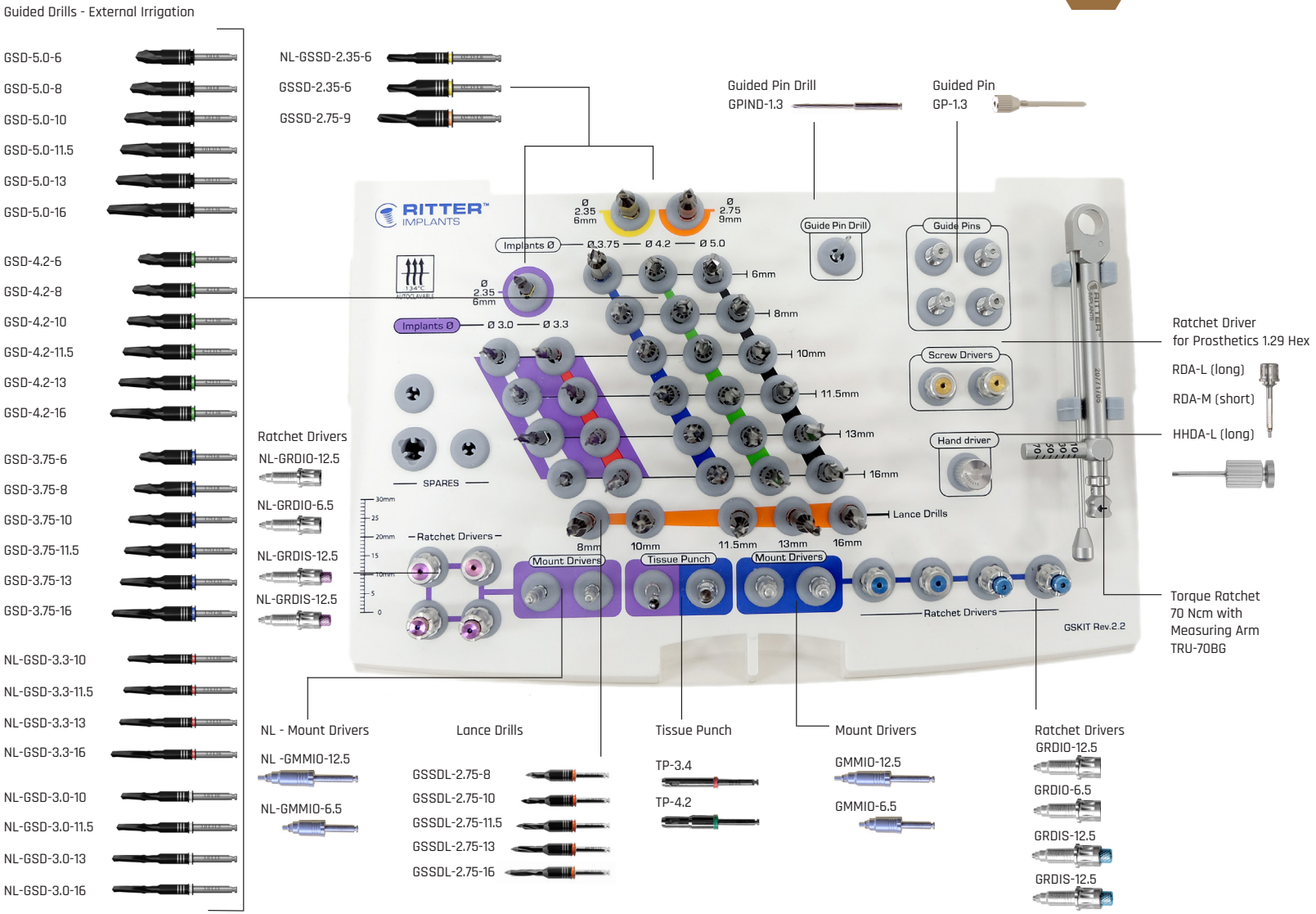



### UNIVERSAL

# Fully Guided Kit
# navigated surgical kit

Art. No. GS-KIT

## Reason#30, 31, 32, 33




The Guided Kit is one of the Best and Easiest on the Market. **Most guided kits do not have a drill for every length and Diameter – Ritter Does!**

**#30**

Most Guided kits need to use spoons to change drill diameter - **Ritter is spoonless!**

**#31**

Most Guided kits need metal sleeves in the guide because they guide the cutting portion of the Drill – **Ritter guides the barrel of the drill and is sleeveless!**

**#32**

**The Torque Ratchet has a simple screw to reverse the direction of turning.**

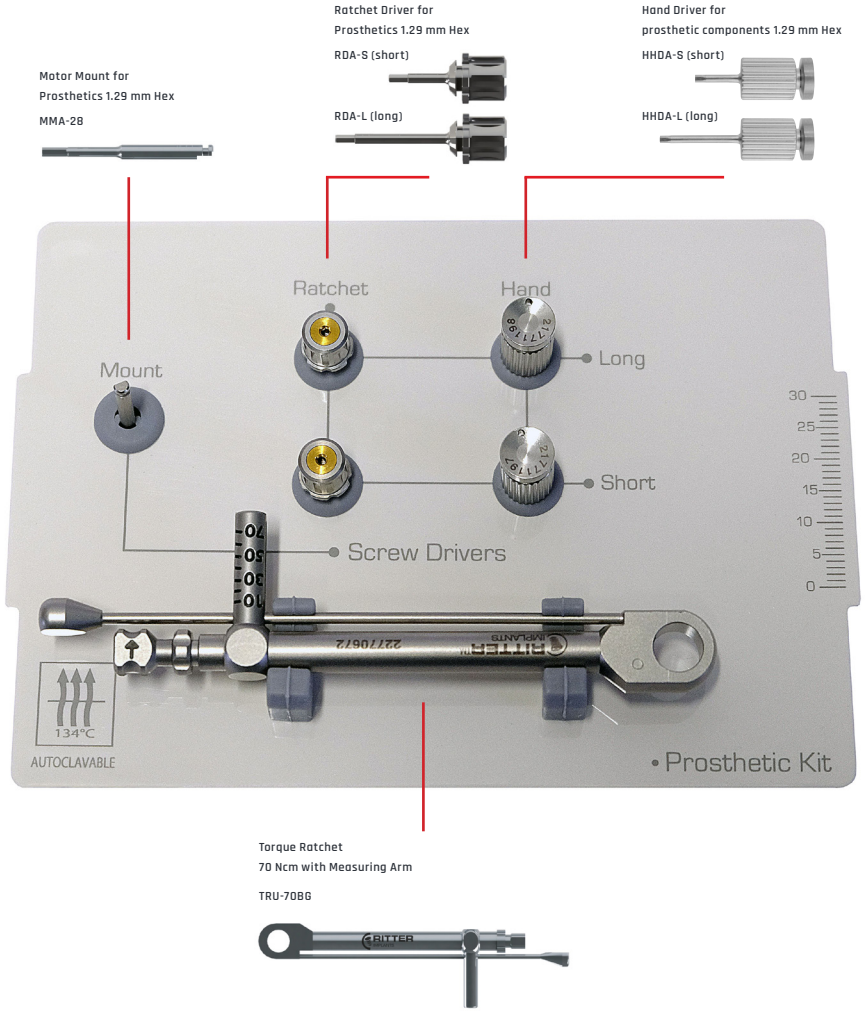
**#33**

# Laboratory/Prosthetics Kit complete

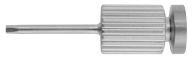
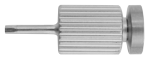
## Art. No. RIB-PROS

Art. No. RIB-PROS

The Laboratory Kit with all the necessary tools for prosthetics components.

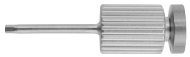
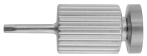
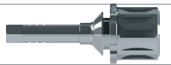
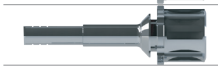



## **RIB-PROS** Prosthetics Kit – components, individually reorderable

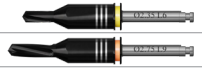
| | Art. No. | Description |
|---|---|---|
|  | HHDA-L | Hand Hex Driver for Prosthetics, Hex 1.29 mm, long |
|  | HHDA-S | Hand Hex Driver for Prosthetics, Hex 1.29 mm, short |
|  | MMA-28 | Motor Mount 28 mm L for Prosthetics, (for Hex 1.29 mm) |
|  | RDA-S | Ratchet Driver for Prosthetics, short for Hex 1.29 mm |
|  | RDA-L | Ratchet Driver for Prosthetics, long for Hex 1.29 mm |
|  | TRU-70BG | 70 Ncm Torque Ratchet with Measuring Arm |

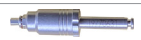
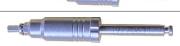
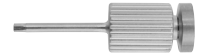
# **RIBEU-PE** Complete Surgical Kit – components, individually reorderable

| | Art. No. | Description |
|---|---|---|
|  | CDEP-3.0-6 | Conical Drill 2.5 mm D I 6 mm L I External Irrigation |
|  | CDEP-3.0-8 | Conical Drill 2.5 mm D I 8 mm L I External Irrigation |
|  | CDEP-3.0-10 | Conical Drill 2.5 mm D I 10 mm L I External Irrigation |
|  | CDEP-3.0-11.5 | Conical Drill 2.5 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-3.0-13 | Conical Drill 2.5 mm D I 13 mm L I External Irrigation |
|  | CDEP-3.0-16 | Conical Drill 2.5 mm D I 16 mm L I External Irrigation |
|  | CDEP-3.3-6 | Conical Drill 2.8 mm D I 6 mm L I External Irrigation |
|  | CDEP-3.3-8 | Conical Drill 2.8 mm D I 8 mm L I External Irrigation |
|  | CDEP-3.3-10 | Conical Drill 2.8 mm D I 10 mm L I External Irrigation |
|  | CDEP-3.3-11.5 | Conical Drill 2.8 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-3.3-13 | Conical Drill 2.8 mm D I 13 mm L I External Irrigation |
|  | CDEP-3.3-16 | Conical Drill 2.8 mm D I 16 mm L I External Irrigation |
|  | CDEP-3.75-6 | Conical Drill 3.2 mm D I 6 mm L I External Irrigation |
|  | CDEP-3.75-8 | Conical Drill 3.2 mm D I 8 mm L I External Irrigation |
|  | CDEP-3.75-10 | Conical Drill 3.2 mm D I 10 mm L I External Irrigation |
|  | CDEP-3.75-11.5 | Conical Drill 3.2 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-3.75-13 | Conical Drill 3.2 mm D I 13 mm L I External Irrigation |
|  | CDEP-3.75-16 | Conical Drill 3.2 mm D I 16 mm L I External Irrigation |
|  | CDEP-4.2-6 | Conical Drill 3.65 mm D I 6 mm L I External Irrigation |
|  | CDEP-4.2-8 | Conical Drill 3.65 mm D I 8 mm L I External Irrigation |
|  | CDEP-4.2-10 | Conical Drill 3.65 mm D I 10 mm L I External Irrigation |
|  | CDEP-4.2-11.5 | Conical Drill 3.65 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-4.2-13 | Conical Drill 3.65 mm D I 13 mm L I External Irrigation |
|  | CDEP-4.2-16 | Conical Drill 3.65 mm D I 16 mm L I External Irrigation |
|  | CDEP-5.0-6 | Conical Drill 4.5 mm D I 6 mm L I External Irrigation |
|  | CDEP-5.0-8 | Conical Drill 4.5 mm D I 8 mm L I External Irrigation |
|  | CDEP-5.0-10 | Conical Drill 4.5 mm D I 10 mm L I External Irrigation |
|  | CDEP-5.0-11.5 | Conical Drill 4.5 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-5.0-13 | Conical Drill 4.5 mm D I 13 mm L I External Irrigation |
|  | CDEP-5.0-16 | Conical Drill 4.5 mm D I 16 mm L I External Irrigation |
|  | CDEP-6.0-6 | Conical Drill 5.4 mm D I 6 mm L I External Irrigation |
|  | CDEP-6.0-8 | Conical Drill 5.4 mm D I 8 mm L I External Irrigation |
|  | CDEP-6.0-10 | Conical Drill 5.4 mm D I 10 mm L I External Irrigation |
|  | CDEP-6.0-11.5 | Conical Drill 5.4 mm D I 11.5 mm L I External Irrigation |
|  | CDEP-6.0-13 | Conical Drill 5.4 mm D I 13 mm L I External Irrigation |

| | Art. No. | Description |
|---|---|---|
|  | CD-3.0 | Hardbone Drill |
|  | CD-3.3 | Hardbone Drill |
|  | CD-3.75 | Hardbone Drill |
|  | CD-4.2 | Hardbone Drill |
|  | CD-5.0 | Hardbone Drill |
|  | CD-6.0 | Hardbone Drill |
|  | DELD-2.0 | Multi Purpose 2.0 Lance Starter Marking Drill |
|  | DELD-2.0-6 | Lance Drill 2.0 mm D I 6 mm L (from Rev. 7.0) |
|  | DELD-2.0-8 | Lance Drill 2.0 mm D I 8 mm L (from Rev. 7.0) |
|  | DELD-2.0-10 | Lance Drill 2.0 mm D I 10 mm L (from Rev. 7.0) |
|  | DELD-2.0-11.5 | Lance Drill 2.0 mm D I 11.5 mm L (from Rev. 7.0) |
|  | DEX | Drill Extension for External Irrigation Drill |
|  | DPU | Direction Indicator Pin |
|  | TRU-70BG | 70 Ncm Torque Ratchet with Measuring Arm |
|  | HHDA-L | Hand Hex Driver for Prosthetics, Hex 1.25, long |
|  | HHDA-S | Hand Hex Driver for Prosthetics, Hex 1.25, short |
|  | MMA-28 | Motor Mount 28 mm L for Prosthetics, (for Hex 1.29) |
|  | RDA-M | Ratchet Driver for Prosthetics, medium for Hex 1.29 mm |
|  | RDA-L | Ratchet Driver for Prosthetics, long for Hex 1.29 mm |
|  | MMIB-22 | Motor Mount 22 mm L for Implant (for Hex 2.43) |
|  | MMIB-28 | Motor Mount 28 mm L for Implant (for Hex 2.43) |
|  | RDI-M | Ratchet Driver for Implant, medium for Hex 2.43 mm |
|  | RDI-L | Ratchet Driver for Implant, long for Hex 2.43 mm |
|  | NL-MMIB-22 | Motor Mount 22 mm L for Implant (for Hex 2.0 Narrow Line) |
|  | NL-MMIB-28 | Motor Mount 28 mm L for Implant (for Hex 2.0 Narrow Line) |
|  | NL-RDI-M | Ratchet Driver for Implant, medium (for Hex 2.0 Narrow Line) |
|  | NL-RDI-L | Ratchet Driver for Implant, long (for Hex 2.0 Narrow Line) |

# **GS-KIT** Navigated Surgical Kit – components, individually reorderable

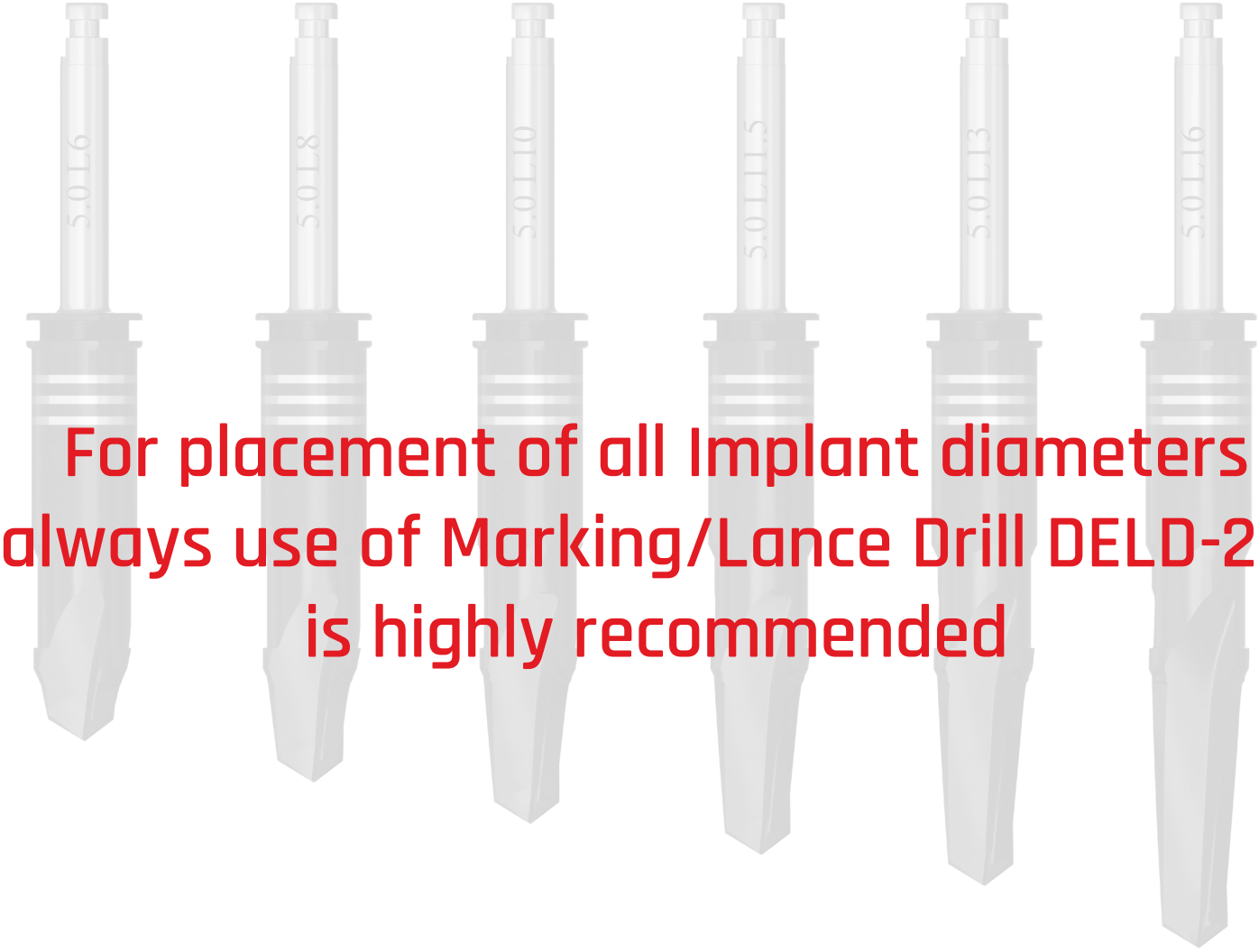
| | Art. No. | Description |
|---|---|---|
|  | GSD-3.75-6 | Guided Surgery Drill 3.75 mm D I 6 mm L |
|  | GSD-3.75-8 | Guided Surgery Drill 3.75 mm D I 8 mm L |
|  | GSD-3.75-10 | Guided Surgery Drill 3.75 mm D I 10 mm L |
|  | GSD-3.75-11.5 | Guided Surgery Drill 3.75 mm D I 11.5 mm L |
|  | GSD-3.75-13 | Guided Surgery Drill 3.75 mm D I 13 mm L |
|  | GSD-3.75-16 | Guided Surgery Drill 3.75 mm D I 16 mm L |
|  | GSD-4.2-6 | Guided Surgery Drill 4.2 mm D I 6 mm L |
|  | GSD-4.2-8 | Guided Surgery Drill 4.2 mm D I 8 mm L |
|  | GSD-4.2-10 | Guided Surgery Drill 4.2 mm D I 10 mm L |
|  | GSD-4.2-11.5 | Guided Surgery Drill 4.2 mm D I 11.5 mm L |
|  | GSD-4.2-13 | Guided Surgery Drill 4.2 mm D I 13 mm L |
|  | GSD-4.2-16 | Guided Surgery Drill 4.2 mm D I 16 mm L |
|  | GSD-5.0-6 | Guided Surgery Drill 5.0 mm D I 6 mm L |
|  | GSD-5.0-8 | Guided Surgery Drill 5.0 mm D I 8 mm L |
|  | GSD-5.0-10 | Guided Surgery Drill 5.0 mm D I 10 mm L |
|  | GSD-5.0-11.5 | Guided Surgery Drill 5.0 mm D I 11.5 mm L |
|  | GSD-5.0-13 | Guided Surgery Drill 5.0 mm D I 13 mm L |
|  | GSD-5.0-16 | Guided Surgery Drill 5.0 mm D I 16 mm L |
|  | NL-GSD-3.0-10 | Narrow Line, Guided Surgery Drill 3.0 mm D I 10 mm L |
|  | NL-GSD-3.0-11.5 | Narrow Line, Guided Surgery Drill 3.0 mm D I 11.5 mm L |
|  | NL-GSD-3.0-13 | Narrow Line, Guided Surgery Drill 3.0 mm D I 13 mm L |
|  | NL-GSD-3.0-16 | Narrow Line, Guided Surgery Drill 3.0 mm D I 16 mm L |
|  | NL-GSD-3.3-10 | Narrow Line, Guided Surgery Drill 3.3 mm D I 10 mm L |
|  | NL-GSD-3.3-11.5 | Narrow Line, Guided Surgery Drill 3.3 mm D I 11.5 mm L |
|  | NL-GSD-3.3-13 | Narrow Line, Guided Surgery Drill 3.3 mm D I 13 mm L |
|  | NL-GSD-3.3-16 | Narrow Line, Guided Surgery Drill 3.3 mm D I 16 mm L |
|  | NL-GSSD-2.35-6 | Narrow Line, Guided Surgery Lance Starter Drill 2.35 mm D I 6 mm L |
|  | GSSD-2.35-6 | Guided Surgery Lance Starter Drill 2.35 mm D I 6 mm L |
|  | GSSD-2.75-9 | Guided Surgery Lance Starter Drill 2.75 mm D I 6 mm L |
|  | CD-3.0 | Hardbone Drill (only GS-KIT Rev. 1.0) |
|  | CD-3.3 | Hardbone Drill (only GS-KIT Rev. 1.0) |
|  | CD-3.75 | Hardbone Drill (only GS-KIT Rev. 1.0) |
|  | CD-4.2 | Hardbone Drill (only GS-KIT Rev. 1.0) |
|  | CD-5.0 | Hardbone Drill (only GS-KIT Rev. 1.0) |
|  | GSSDL-2.75-8 | Lance Drill 2.75 D I 8 mm L (from GS-KIT Rev. 2.2) |
|  | GSSDL-2.75-10 | Lance Drill 2.75 D I 10 mm L (from GS-KIT Rev. 2.2) |
|  | GSSDL-2.75-11.5 | Lance Drill 2.75 D I 11.5 mm L (from GS-KIT Rev. 2.2) |
|  | GSSDL-2.75-13 | Lance Drill 2.75 D I 13 mm L (from GS-KIT Rev. 2.2) |
|  | GSSDL-2.75-16 | Lance Drill 2.75 D I 16 mm L (from GS-KIT Rev. 2.2) |

| | Art. No. | Description |
|---|---|---|
|  | GMMIO-6.5 | Guided Motor Mount Self-Loading Barrel I 5.1 mm D I 6.5 mm L |
|  | GMMIO-12.5 | Guided Motor Mount Self-Loading Barrel I 5.1 mm D I 12.5 mm L |
|  | NL-GMMIO-6.5 | Narrow Line Guided Motor Mount Self-Loading Barrel I 3.4 mm D I 6.5 mm L |
|  | NL-GMMIO-12.5 | Narrow Line Guided Motor Mount Self-Loading Barrel I 3.4 mm D I 12.5 mm L |
|  | GRDIO-6.5 | Guided Ratchet Driver Self-Loading Barrel I 5.1 mm D I 6.5 mm L |
|  | GRDIO-12.5 | Guided Ratchet Driver Self-Loading Barrel I 5.1 mm D I 12.5 mm L |
|  | GRDIS-12.5 | Guided Ratchet Driver Screw Receiving Barrel I 5.1 mm D I 12.5 mm L |
|  | NL-GRDIO-6.5 | Narrow Line Guided Ratchet Driver Self-Loading Barrel I 3.4 mm D I 6.5 mm L |
|  | NL-GRDIO-12.5 | Narrow Line Guided Ratchet Driver Self-Loading Barrel I 3.4 mm D I 12.5 mm L |
|  | NL-GRDIS-12.5 | Narrow Line Guided Ratchet Driver Screw Receiving Barrel I 3.4 mm D I 12.5 mm L |
|  | GPIND-1.3 | Guided Pin Drill |
|  | GP-1.3 | Guided Pin |
|  | HHDA-L | Hand Hex Driver for Prosthetics, Hex 1.25, long |
|  | RDA-M | Ratchet Driver for Prosthetics, medium for Hex 1.29 mm |
|  | RDA-L | Ratchet Driver for Prosthetics, long for Hex 1.29 mm |
|  | TRU-70BG | 70 Ncm Torque Ratchet with Measuring Arm |
|  | TP-3.4 | Narrow Line Tissue Punch 3.4 mm D |
|  | TP-4.2 | Tissue Punch 4.2 mm D |

## Miscellaneous components

| | | |
|---|---|---|
|  | DP-3.0 | Direction Pins for 3.0 mm D Implant |
|  | DP-3.3 | Direction Pins for 3.3 mm D Implant |
|  | DP-3.75 | Direction Pins for 3.75 mm D Implant |
|  | DP-4.2 | Direction Pins for 4.2 mm D Implant |
|  | DP-5.0 | Direction Pins for 5.0 mm D Implant |
|  | DP-6.0 | Direction Pins for 6.0 mm D Implant |
|  | MM-ADP-7 | Motor Mount Adapter with Ballfriction 7 mm |
|  | LD-2.0 | Lance Drill 2.0 - 16 mm L |

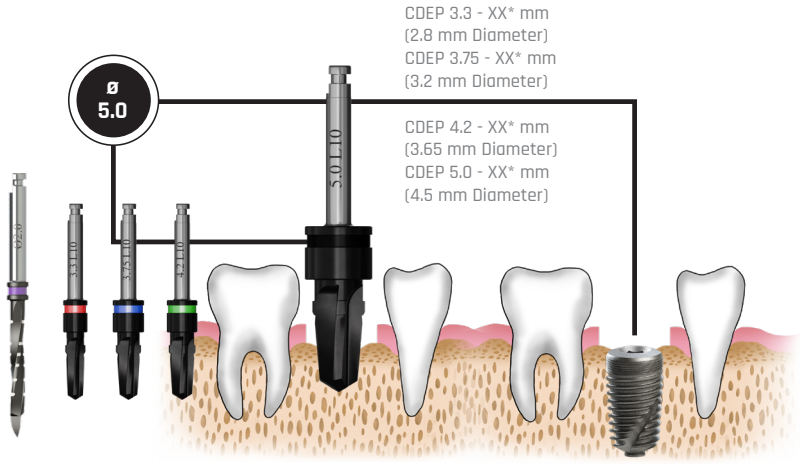
# Drilling Protocols


**For placement of all Implant diameters always use of Marking/Lance Drill DELD-2.0 is highly recommended**

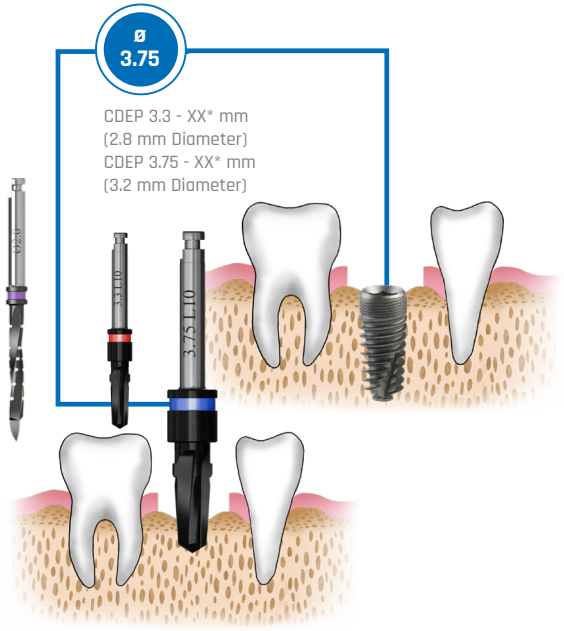
# Standard Platform

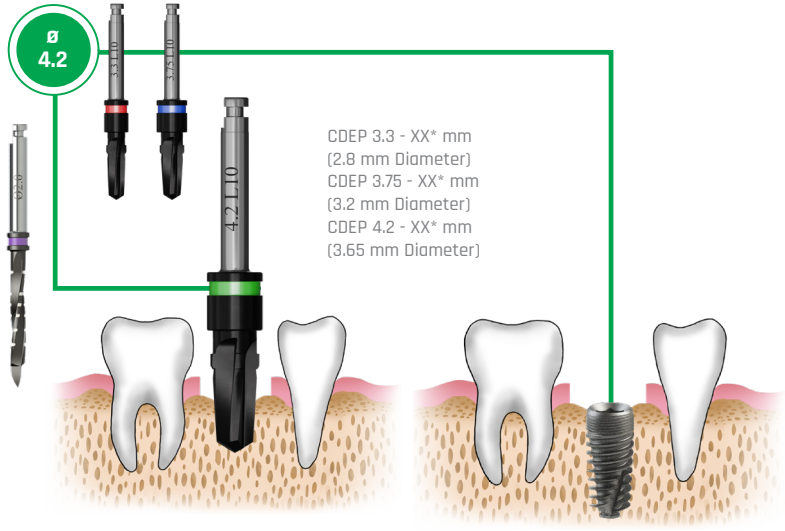
| Implant Diameter | 3.75 mm | 4.2 mm | 5.0 mm | 6.0 mm |
|---|---|---|---|---|
| Color Code | blue | green | black | brown |
| **Previous** of the regular drills with CDEP | 1 | 2 | 3 | 4 |
| Conical drill width CDEP | 3.2 mm | 3.2-3.65 mm | 3.2-4.5 mm | 3.2-5.4 mm |
| **Final** regular drill with max. depth / according to the length of the implant | 3.2 mm | 3.65 mm | 4.5 mm | 5.4 mm |

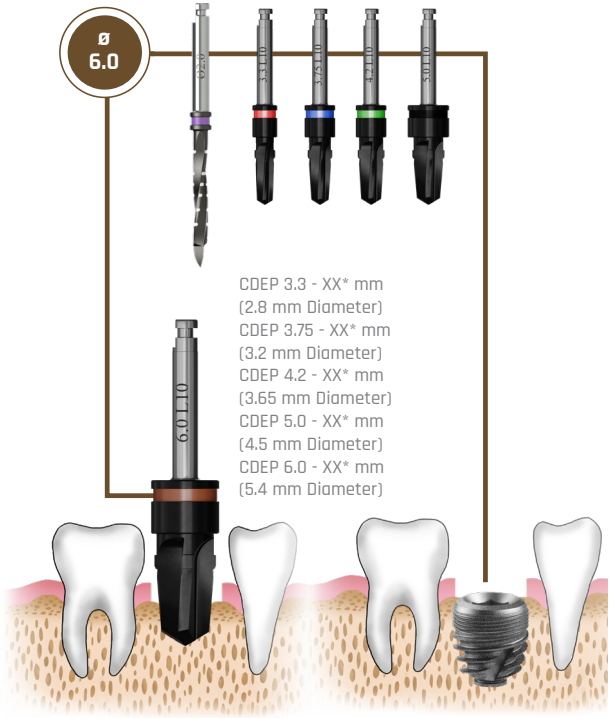




**For placement of all Implant diameters always use of Marking/Lance Drill DELD-2.0 is highly recommended**



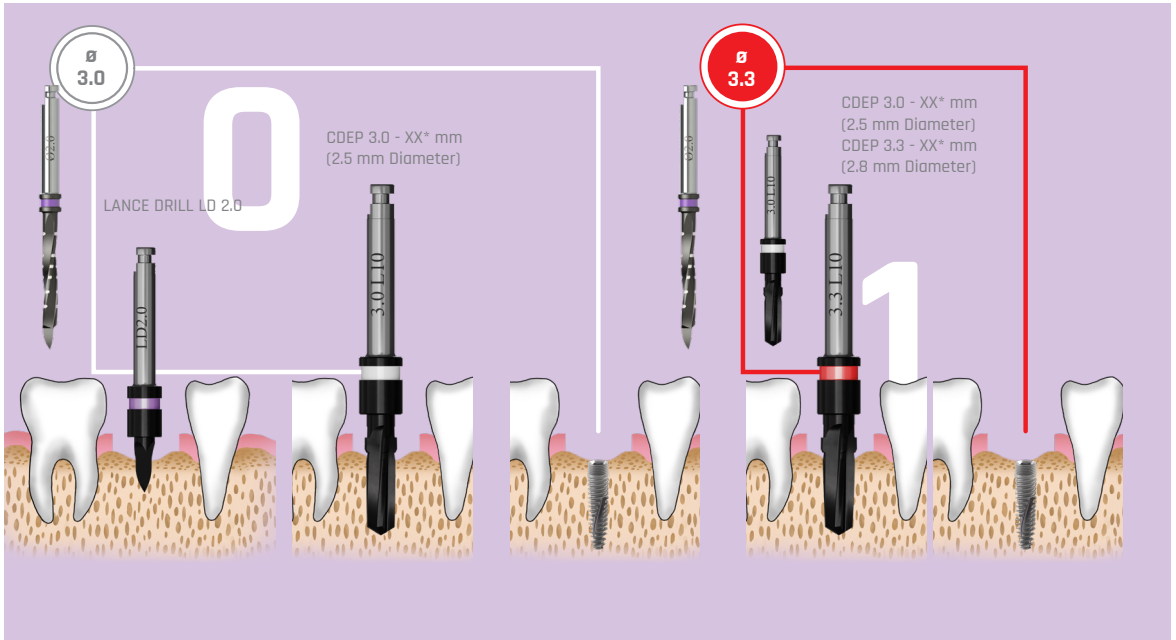



RITTER™ IMPLANTS

# Narrow Line 3.0 and 3.3 mm Platform

| Implant Diameter | 3.0 mm | 3.3 mm |
|---|---|---|
| Color Code | white | red |
| **Previous** of the regular drills with CDEP | -- only Pilot-Drill LD 2.0 | 1 |
| Conical Drill width CDEP | -- | 2.8 mm |
| **Final** regular drill with max. depth / according to the length of the implant | 2.5 mm | 2.8 mm |

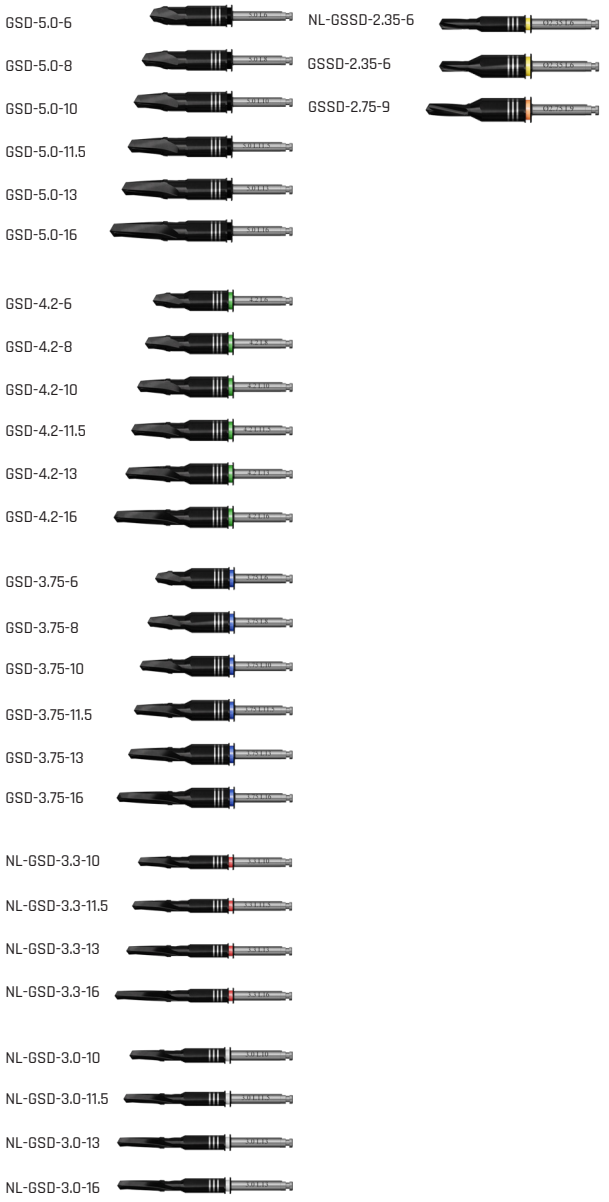

**For placement of all Implant diameters always use of Marking/Lance Drill DELD-2.0 is highly recommended**



# Drilling Sequence GS/Guided Kit

## Guided Protocol using BlueSkyBio Sleeves – Standard Platform & Narrow Line

| | | Drill 1 | Drill 2 | Drill 3 | Drill 4 | Drill 5 | Sleeve |
|---|---|---|---|---|---|---|---|
| **Narrow Line** | | | | | | | |
| NL-SNAP-3-10 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | | | | TUBE4-35-5L |
| NL-SNAP-3-11.5 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.0-11.5 | | | TUBE4-35-5L |
| NL-SNAP-3-13 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.0-13 | | | TUBE4-35-5L |
| NL-SNAP-3-16 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.0-13 | NL-GSD-3.0-16 | | TUBE4-35-5L |
| NL-SNAP-3.3-10 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.3-10 | | | TUBE4-35-5L |
| NL-SNAP-3.3-11.5 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.3-11.5 | | | TUBE4-35-5L |
| NL-SNAP-3.3-13 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.3-13 | | | TUBE4-35-5L |
| NL-SNAP-3.3-16 | SBLA - Narrow | NL-GSSD-2.35-6 | NL-GSD-3.0-10 | NL-GSD-3.3-13 | NL-GSD-3.0-16 | | TUBE4-35-5L |
| **Standard Line** | | | | | | | |
| SNAP-3.75-8 | SBLA - Standard | GSSD-2.35-6 | GSD-3.75-8 | | | | TUBE516 |
| SNAP-3.75-10 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-10 | | | TUBE516 |
| SNAP-3.75-11.5 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | | | TUBE516 |
| SNAP-3.75-13 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-3.75-13 | | TUBE516 |
| SNAP-3.75-16 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-3.75-13 | GSD-3.75-16 | TUBE516 |
| SNAP-4.2-8 | SBLA - Standard | GSSD-2.35-6 | GSD-3.75-8 | GSD-4.2-8 | | | TUBE516 |
| SNAP-4.2-10 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-10 | GSD-4.2-10 | | TUBE516 |
| SNAP-4.2-11.5 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-11.5 | | TUBE516 |
| SNAP-4.2-13 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-13 | | TUBE516 |
| SNAP-4.2-16 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-13 | GSD-4.2-16 | TUBE516 |
| SNAP-5-6 | SBLA - Standard | GSSD-2.35-6 | GSD-3.75-6 | GSD-4.2-6 | GSD-5.0-6 | | TUBE516 |
| SNAP-5-8 | SBLA - Standard | GSSD-2.35-6 | GSD-3.75-8 | GSD-4.2-8 | GSD-5.0-8 | | TUBE516 |
| SNAP-5-10 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-10 | GSD-4.2-10 | GSD-5.0-10 | TUBE516 |
| SNAP-5-11.5 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-11.5 | GSD-5.0-11.5 | TUBE516 |
| SNAP-5-13 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-13 | GSD-5.0-13 | TUBE516 |
| SNAP-5-16 | SBLA - Standard | GSSD-2.35-6 | GSSD-2.75-9 | GSD-3.75-11.5 | GSD-4.2-13 | GSD-5.0-16 | TUBE516 |



# Libraries

RITTER™ IMPLANTS

The Ritter Implants system is currently represented in the following libraries from these manufacturers:

- 3Shape®
- Acteon®
- 3Diemme®
- Exocad®
- BlueSkyBio®
- Dental Wings®
- Dentique3D®
- Dentsply®
- EwooSoft®
- KODAK®
- Ondemand®
- Planmeca®
- ProDigiDent®
- Sicat®
- Vatech®
- Sable Industries Inc®

# How to order your implants?

RITTER™ IMPLANTS

## 1. PICK YOUR IMPLANT SIZES

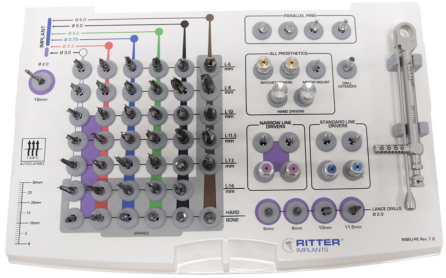
| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | 5.0 | 6.0 | |
| | | 3.75 | 4.2 | | | 6 |
| 3.0 | 3.3 | | | | | 8 |
| | | | | | | 10 |
| | | | | | | 11.5 |
| | | | | | | 13 |
| | | | | | | 16 |

LENGTH (mm)

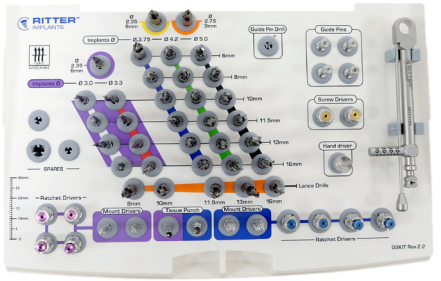
WRITE AMOUNT IN EACH CELL

## 2. CHOOSE SURGICAL KIT

**Compact Surgical Kit**



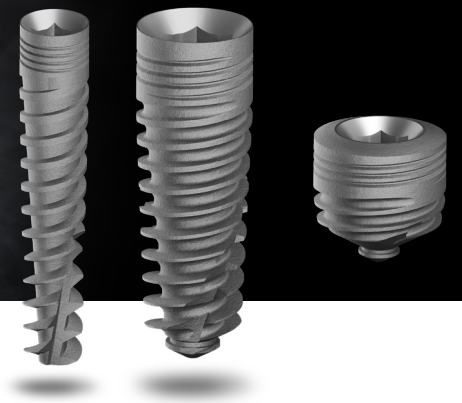
**Complete Surgical Kit**



**Guided Surgical Kit**

# RITTER™ IMPLANTS

## TITANIUM GRADE 5



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Worldwide Sales: Ritter Dental USA · 4310 West Avenue · San Antonio · Texas 78213
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