

RealGUIDE™ Universal Guided Surgery Kit





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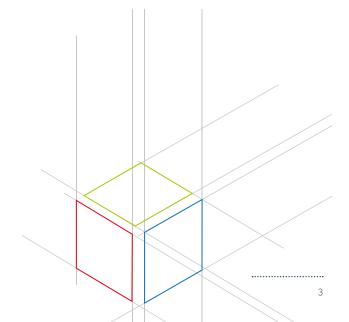
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RealGUIDE™ UNIVERSAL GUIDED SURGERY KIT

The RealGUIDE™ Universal Guided Surgery Kit has been designed for use with the 3DIEMME's guided sleeves. The kit consists of Diamond-like Carbon (DLC) coated calibrated surgical drills, dedicated drivers and mounting devices for guided surgery. It can be used to place the most popular implant systems according to the drills diameters and lenghts included in the kit.



SURGERY KIT COMPONENTS



GROMMET-LESS VERSION

The grommet-less version allows better cleaning and sterilization during the autoclave cycles of the tray, while ensuring an excellent seal of the surgical instrument housings.

DRILLS - TECHNICAL SPECIFICATIONS

The drills in the RealGUIDE™ Universal Guided Surgery Kit are made of hardened AISI 420B stainless steel and coated with DLC treatment which provides an increase in surface hardness and reduces the friction forces generated during use. The wear resistance aids cutting efficiency and minimizes bone overheating. Additionally this treatment also minimizes corrosion phenomenon during the cleaning and sterilization cycles. Drills should be used for no more than 15 patients.¹ Thoroughly inspect the cutting portion of the drills before every use. The use of worn-out drills could compromise the osseointegration process of the implant. Use of copious irrigation during drilling is highly recommended.



DRILLING SYSTEM

The drilling system of the surgical alveolus is sequential and each drill has laser markings indicating the diameter of the drill and the implant length. The cylindrical portion of the drill preceding the cutting edge engages in 5 mm diameter guide sleeves. A 9 mm guide path is provided, consisting of the sleeve of the surgical guide (4 mm) and the maximum thickness of the soft tissues (5 mm). The smaller diameter of the stepped drills is consistent with the full diameter of the previous drill, providing further guidance in the sequence from one drill to the next.



REDUCTION RINGS

The reduction rings are color-coded and available in heights of 1, 1.5 and 2 mm. They must be interposed on the guided portion of the drill to reduce the desired height in case of using different lengths. They are very useful when using short implants or when it is necessary to underprepare the osteotomy in the vertical dimension.



IMPLANT MOUNTS

The implant mounts are designed for guided implant insertion, following the osteotomy, in accordance with the implant planning. Connect the implant mount to the implant using the manual screwdriver by means of the passing screw, subsequently connect the handpiece screwdriver to the mount and remove the implant from the vial. Insert the tool into the guide sleeve with the motor off and once it comes into contact with the hard tissue, start the motor.

WARNING: Contact 3DIEMME to verify the availability of guided implant mounts in accordance with the desired implant connections.



BONE MILLS

Bone mills, available in cylindrical and conical versions, are used to remove excess portions of bone in case of irregular bone crests or positioning of tilted implants. The protection screw, included in the kit, to be connected directly to the implant, ensures correct use of the drill, guiding it in the right direction and preserving the implant itself.



ANCHOR PINS

The Pin Drills, with a diameter of 1.5 mm, and vestibular anchor pins make up the stabilization system provided for the surgical guide in cases of total edentulism or significant partial edentulism.



DRIVERS & CONNECTORS

The manual and handpiece drivers and extension tools have been designed to be used with the guided implant mounts provided by 3DIEMME.



RECOMMENDATIONS

Surgical instruments are supplied **NON-STERILE** and **MUST BE STERILIZED BEFORE USE**. Sterilize in a steam autoclave according to the autoclave manufacturer's specifications (minimum 20 minutes at a temperature between 132°C and 135°C or 270°F and 275°F).

Repeated sterilization cycles 1 involve a progressive deterioration of the surgical instruments, therefore it is necessary to periodically review all the instruments to check their condition (including unused instruments).

[&]quot;Improved dental implant drill durability and performance using heat and wear resistant protective coatings" J Oral Implantol (2018) 44 (3): 168–175

SURGERY KIT COMPONENTS

DRILL FOR FIXATION PIN

Used to create temporary osteotomies in edentulous patients and to allow stabilization of the surgical guide by buccal anchoring pins. Insert the tool into the fixation pin sleeve with the motor stopped and once it comes into contact with the soft tissue, start the motor. A spare drill is provided.



FIXATION PINS

Used for anchoring surgical guides for total edentulism. Press-fit the pins through the fixation pin sleeves in the surgical guide and into the osteotomy created by the pin drill and ensure that the surgical guide is in the correct and stable position.



MUCOTOME / TISSUE PUNCH

Used in the flapless technique to remove soft tissue. Insert the tool into the guide sleeve with the motor stopped and once it comes into contact with the soft tissue, start the motor.



BONE CREST LEVELER

Used to smooth the irregular surfaces of the bone crest. Insert the tool into the guide sleeve with the motor stopped and once it comes into contact with the hard tissue, start the motor.



BITE GAUGE

The bite gauge simulates the maximum size of the drills of the RealGUIDE™ Universal Guided Surgery Kit and must be used before the patient's CT/CBCT exam. The size of the hexagon at the base of the gauge is the same size as the hexagon of the guide sleeve incorporated in the resin of the surgical guide.



TORQUE RATCHET

The Torque Ratchet is used for the manual phase of final implant insertion. Make sure that the flat face of the hexagon shown on the implant mount matches the flat face of the hexagon on the head of the guided sleeve in accordance with the implant planning.



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START DRILL

Used to create the opening on the bone crest prior to the first drill. Insert the tool into the guide sleeve with the motor stopped and once it comes into contact with the hard tissue, start the motor.



2.3 × 6.0 DRILL

Used to allow the next drill to take advantage of a guided path, especially in cases of irregular bone crest. Insert the tool into the guide sleeve with the motor stopped and once it comes into contact with the hard tissue, start the motor.



CYLINDRICAL BONE MILL

Used to remove regular portions of excess bone and facilitate the insertion of straight secondary prosthetic components (MUA). Insert the tool into the protective screw with the motor stopped and, once it comes into contact with the hard tissue, start the motor.



CONICAL BONE MILL

Used to remove irregular portions of excess bone and facilitate the insertion of angled secondary prosthetic components (MUA). Insert the tool into the protective screw with the motor stopped and, once it comes into contact with the hard tissue, start the motor.



BONE MILL GUIDE SCREWS

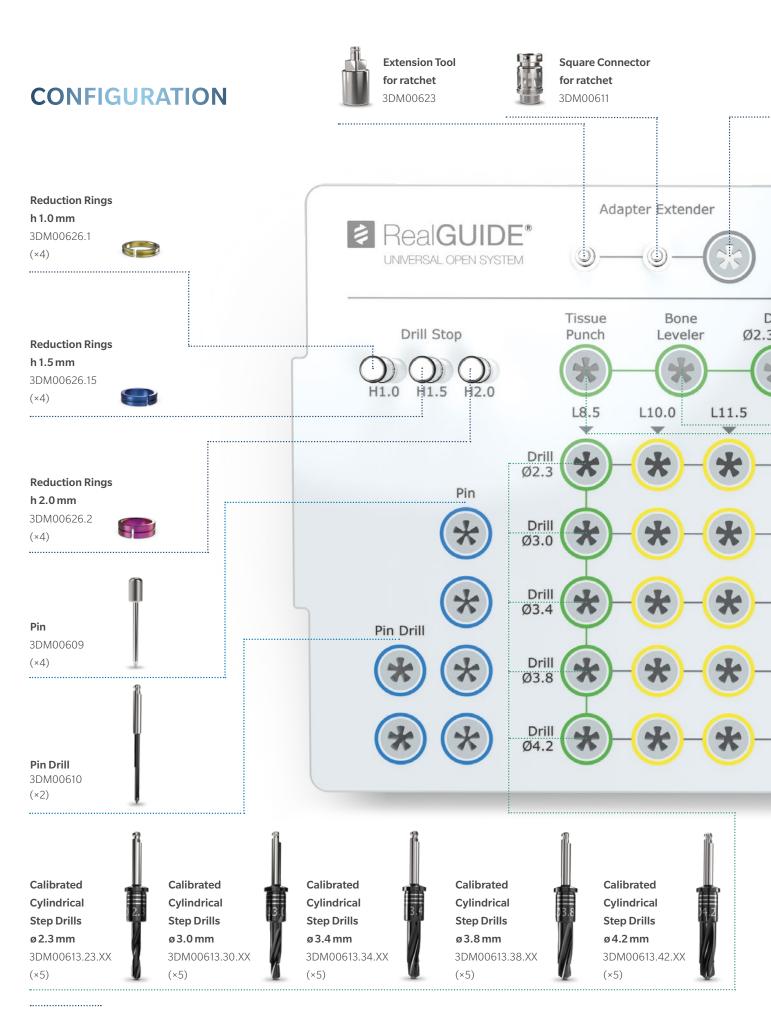
Connect the protection screw directly to the implant and proceed with the guided removal of the excess bone portions using the bone mills WARNING: Contact 3DIEMME to verify the availability of bone mill

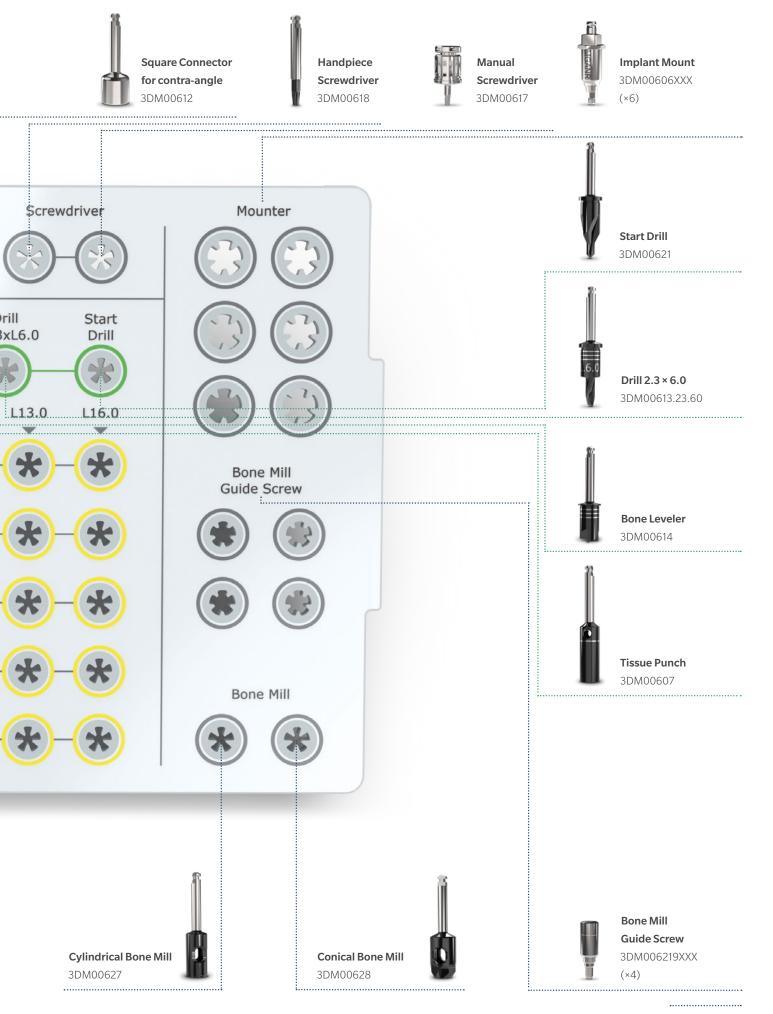
guide screws in accordance with the desired implant connections.



NOTES

- The RealGUIDE™ Universal Guided Surgery Kit does not require any reduction instruments to be inserted into the guide sleeves. The use of calibrated drills allows the user to obtain greater precision of the osteotomy and frees up the doctor's hand during surgery.
- All surgical instruments must be inserted into the guide sleeves
 WITH THE MOTOR OFF. Once the instrument or implant makes contact with the soft tissue or hard tissue, start the motor.
- The grommetless version of the surgical tray allows better cleaning and sterilization, avoiding the presence of biological residues that are difficult to remove in the versions with grommets.





COMPOSITION 1 RealGUIDE™ FULL KIT

RealGUIDE™ FULL KIT € 2,990.—

INSTRUMENTS INCLUDED IN THE FULL KIT (3DM00700)

- 1 mucotome
- 1 start drill
- 1 bone leveler
- 1 drill D2.3 × 6.0 mm
- D2.3 × 8.5 mm, D2.3 × 10 mm, D2.3 × 11.5 mm,
 D2.3 × 13 mm, D2.3 × 16 mm drills set
- D3.0 × 8.5 mm, D3.0 × 10 mm, D3.0 × 11.5 mm,
 D3.0 × 13 mm, D3.0 × 16 mm drills set
- D3.4 × 8.5 mm, D3.4 × 10 mm, D3.4 × 11.5 mm,
 D3.4 × 13 mm, D3.4 × 16 mm drills set
- D3.8 × 8.5 mm, D3.8 × 10 mm, D3.8 × 11.5 mm,
 D3.8 × 13 mm, D3.8 × 16 mm drills set
- D4.2 × 8.5 mm, D4.2 × 10 mm, D4.2 × 11.5 mm,
 D4.2 × 13 mm, D4.2 × 16 mm drills set
- Reduction rings (4 × H1.0 mm | 4 × H1.5 mm | 4 × H2.0 mm)
- 2 drills for fixation pins
- 4 fixation pins

- 6 implant mounts of the same prosthetic connection chosen among the compatibility list
- 1 manual screwdriver
- 1 handpiece screwdriver
- 14 × 4 square connector for handpiece
- 1 torque wrench prolongation
- 1 cylinder bone mill
- 1 conical bone mill
- 4 bone mill protection screws, chosen among the compatibility list
- 1 torque wrench with removable adapter
- 1 mouth opening gauge
- 1 surgical box

Additional implant mounts can be purchased separately (6 implant mounts per prosthetic connection sets). Please refer to the compatibility table for the updated list of compatible platforms.



RealGUIDE™ BASIC KIT

RealGUIDE™ BASIC KIT €1,990.-

INSTRUMENTS INCLUDED IN THE BASIC KIT (3DM00700LT)

- 1 mucotome
- 1 start drill
- D2.3 × 8.5 mm, D2.3 × 10 mm, D2.3 × 11.5 mm, D2.3 × 13 mm drills set
- D3.0 × 8.5 mm, D3.0 × 10 mm, D3.0 × 11.5 mm, D3.0 × 13 mm drills set
- D3.4 × 8.5 mm, D3.4 × 10 mm, D3.4 × 11.5 mm, D3.4 × 13 mm drills set
- D3.8 × 8.5 mm, D3.8 × 10 mm, D3.8 × 11.5 mm, D3.8 × 13 mm drills set
- Reduction rings (4 × H1.0 mm | 4 × H1.5 mm | 4 × H2.0 mm)
- 1 drill for fixation pins
- 3 fixation pins
- 4 implant mounts of the same prosthetic connection chosen among the compatibility list
- 1 manual screwdriver
- 1 handpiece screwdriver

- 14 × 4 square connector for handpiece
- 1 torque wrench prolongation
- 1 torque wrench with removable adapter
- 1 mouth opening gauge
- 1 surgical box

Not included instruments can be purchased separately. Additional implant mounts can be purchased separately (6 implant mounts per prosthetic connection sets). Please refer to the compatibility table for the updated list of compatible platforms.



RealGUIDE™ UNIVERSAL KIT

For Implant Site Preparation Only

RealGUIDE™ UNIVERSAL KIT € 1,690.—

INSTRUMENTS INCLUDED IN THE UNIVERSAL KIT (3DM00701)

- 1 mucotome
- 1 start drill
- D2.3 × 8.5 mm, D2.3 × 10 mm, D2.3 × 11.5 mm,
 D2.3 × 13 mm, D2.3 × 16 mm drills set
- D3.0 × 8.5 mm, D3.0 × 10 mm, D3.0 × 11.5 mm,
 D3.0 × 13 mm, D3.0 × 16 mm drills set
- D3.4 × 8.5 mm, D3.4 × 10 mm, D3.4 × 11.5 mm,
 D3.4 × 13 mm, D3.4 × 16 mm drills set
- D3.8 × 8.5 mm, D3.8 × 10 mm, D3.8 × 11.5 mm,
 D3.8 × 13 mm, D3.8 × 16 mm drills set
- D4.2 × 8.5 mm, D4.2 × 10 mm, D4.2 × 11.5 mm,
 D4.2 × 13 mm, D4.2 × 16 mm drills set

- Reduction rings (4 × H1.0 mm | 4 × H1.5 mm | 4 × H2.0 mm)
- 1 drill for fixation pins
- 3 fixation pins
- 1 mouth opening gauge
- 1 surgical box

Not included instruments can be purchased separately.



ORDERING INFORMATION

RealGUIDE™ Universal Guided Surgery Kit

Product	Part No.
RealGUIDE™ Universal Guided Surgery Kit Full Kit	3DM00700
RealGUIDE™ Universal Guided Surgery Kit Basic Kit	3DM00700LT
RealGUIDE™ Universal Guided Surgery Kit For Implant site Preparation Only	3DM00701
Autoclavable RealGUIDE™ Universal Guided Surgery Box	3DM00616

Configuration

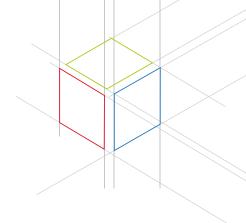
Product	Part No.
Drill for Fixation Pin max. 1,000 rpm, hardened stainless steel AISI 420B with DLC coating	3DM00610
Fixation Pin TiAl6V4 ASTM F136	3DM00609
Manual Screwdriver hardened stainless steel AISI 420F MOD	3DM00617
Handpiece Screwdriver hardened stainless steel AISI420F MOD with DLC coating	3DM00618
Torque Wrench Extension max. 50 Ncm, hardened stainless steel AISI 420F MOD	3DM00623
4 × 4 Square Connector for handpiece max. 50 Ncm, hardened stainless steel AISI 420F MOD	3DM00612
Mucotome / Tissue Punch Internal diameter: 4.2 mm, max. 100 rpm, hardened stainless steel AISI 420F MOD with DLC coating	3DM00607

ORDERING INFORMATION

Configuration

Product		Part No.
Bone Crest Leveler max. 600 rpm, hardened stainless steel AISI 420B with DLC coating		3DM00614
Start Drill Implant site preparation drill, max. 600 rpm, hardened stainless steel AISI 420B with DLC coating		3DM00621
Drill ø 2.3 × 6 mm max. 800 rpm, hardened stainless steel AISI 420B with DLC coating		3DM00613.23.60
Cylindrical Bone Mill max. 600 rpm, hardened stainless steel AISI 420B with DLC coating		3DM00627
Conical Bone Mill max. 600 rpm, hardened stainless steel AISI 420B with DLC coating		3DM00628
Bone Mill Protection Screw (Choose among the compatibility list) hardened stainless steel AISI 420F MOD		3DM00629.XX
Reduction rings 4 × h 1.0 mm TiAl6V4 ASTM F136		3DM00626.1
Reduction rings 4 × h 1.5 mm TiAl6V4 ASTM F136		3DM00626.15
Reduction rings 4 × h 2.0 mm TiAl6V4 ASTM F136		3DM00626.2
Mouth Opening Gauge / Bite Gauge hardened stainless steel AISI 303	BITE GAUGE	3DM00622
Torque Ratchet hardened stainless steel AISI 630 (17-4PH)	≥ 3 13 Ncm	3DM00611

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Implant Mounts (hardened stainless steel AISI 420F MOD)

Product		Part No.
Implant Mount Screw, max 20 rpm, 50 Ncm (Choose among the compatibility list)	NICKNIK (NICKNIK)	3DM00606XXX

Drills (hardened stainless steel AISI 420B with DLC coating)

Length	Drill ø 2.3 mm	Double Diameter Drill ø 3.0 / 2.3 mm	Double Diameter Drill ø 3.4 / 3.0 mm	Double Diameter Drill ø 3.8 / 3.4 mm	Double Diameter Drill ø 4.2 / 3.8 mm
			max. 800 rpm		
				23.8	14.2
8.5 mm	3DM00613.23.85	3DM00613.30.85	3DM00613.34.85	3DM00613.38.85	3DM00613.42.85
10 mm	3DM00613.23.10	3DM00613.30.10	3DM00613.34.10	3DM00613.38.10	3DM00613.42.10
11.5 mm	3DM00613.23.115	3DM00613.30.115	3DM00613.34.115	3DM00613.38.115	3DM00613.42.115
13 mm	3DM00613.23.13	3DM00613.30.13	3DM00613.34.13	3DM00613.38.13	3DM00613.42.13
16 mm	3DM00613.23.16	3DM00613.30.16	3DM00613.34.16	3DM00613.38.16	3DM00613.42.16

Surgical Guide Accessories

Product	Part No.
Surgical Guide Sleeve RG CAD Procedure 5.05 mm, compatible 3DM RG, Zimmer Biomet Z3D, Nobel RP Kit (10 pcs)	3DM00670
Surgical Guide Pin Fixation Sleeve RG CAD Procedure (10 pcs)	3DM00671

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RealGUIDE™ MINILOC GUIDED SURGERY KIT

RealGUIDE™ MINILOC KIT € 990.-

INSTRUMENTS INCLUDED IN THE MINILOC KIT (3DM00700MINILOC)

- 1 mucotome D3,5 mm
- 1 drill D1,6 × 7 mm
- 1 drill D1,6 × 11,5 mm
- 1 drill D1,6 × 15 mm
- 1 drill D2,1 × 15 mm
- 1 drill D2,4 × 15 mm
- 1 drill D2,8 × 15 mm
- 1 drill D3,2 × 15 mm
- Reduction rings (2 × H1,0 mm | 2 × H1,5 mm | 2 × H2,0 mm)
- 1 surgical box

Additional instruments for the surgical guide fixation and Locator[™] compatible implant mounts:

- 2 fixation pins drills
- 4 fixation pins
- 3 Locator[™] compatible implant mounts



RealGUIDE™ MINIPIN GUIDED SURGERY KIT

RealGUIDE™ MINIPIN KIT **€790.**-

INSTRUMENTS INCLUDED IN THE MINIPIN KIT

(3DM00700MINIPIN)

- 1 mucotome D3,5 mm
- 1 drill D1,6 × 7 mm
- 1 drill D1,6 × 11,5 mm
- 1 drill D1,6 × 15 mm
- 1 drill D2,1 × 15 mm
- 1 drill D2,4 × 15 mm
 1 drill D2,8 × 15 mm
- 1 drill D3,2 × 15 mm
- Reduction rings (2 × H1,0 mm | 2 × H1,5 mm | 2 × H2,0 mm)
- 1 surgical box

Additional instruments for the surgical guide fixation:

- 2 fixation pins drills
- 4 fixation pins



COMPOSITION 3 RealGUIDE™ MINI GUIDED SURGERY KIT

RealGUIDE™ MINI KIT **€590.**—

INSTRUMENTS INCLUDED IN THE MINI KIT (3DM00700MINI)

- 1 mucotome D3,5 mm
- 1 drill D1,6 × 7 mm
- 1 drill D1,6 × 11,5 mm
- 1 drill D1,6 × 15 mm
- 1 drill D2,1 × 15 mm
- 1 drill D2,4 × 15 mm
- 1 drill D2,8 × 15 mm
- 1 drill D3,2 × 15 mm
- Reduction rings (2 × H1,0 mm | 2 × H1,5 mm | 2 × H2,0 mm)
- 1 surgical box



ORDERING INFORMATION

RealGUIDE™ MINI Guided Surgery Kit

Product	Part No.
RealGUIDE™ MINI Guided Surgery Kit MINILOC	3DM00700MINILOC
RealGUIDE™ MINI Guided Surgery Kit MINIPIN	3DM00700MINIPIN
RealGUIDE™ MINI Guided Surgery Kit MINI	3DM00700MINI
Autoclavable RealGUIDE™ MINI Guided Surgery Box	3DM00616MINI

Configuration

Product Product	Part No.
Drill for Fixation Pin max. 1,000 rpm, hardened stainless steel AISI 420B with DLC coating	3DM00610
Fixation Pin TiAl6V4 ASTM F136	3DM00609
Mucotome / Tissue Punch ø 3.5 mm hardened stainless steel AISI 420F MOD with DLC coating	3DM00607S
Locator™ compatible Implant Mount (x3) hardened stainless steel AISI 420B	3DM00606LOC
Reduction rings 2 × h 1.0 mm TiAl6V4 ASTM F136	3DM00626.1S
Reduction rings 2 × h 1.5 mm TiAl6V4 ASTM F136	3DM00626.15S
Reduction rings 2 × h 2.0 mm TiAl6V4 ASTM F136	3DM00626.2S

Calibrated Cylindrical Drills (hardened stainless steel AISI 420B with DLC coating)

Length	Drill ø 1.6 mm	Drill ø 2.1 mm	Drill ø 2.4 mm	Drill ø 2.8 mm	Drill ø 3.2 mm
		max. 800 rpm			
		The state of the s		Lib.	
7.0 mm	3DM00613.16.70	-	-	-	-
11.5 mm	3DM00613.16.115	-	_	-	-
15.0 mm	3DM00613.16.15	3DM00613.21.15	3DM00613.24.15	3DM00613.28.15	3DM00613.32.15

Surgical Guide Accessories

Product	Part No.
Surgical Guide Sleeve RG CAD Procedure 3.5 mmfor RealGUIDE™ MINI Surgery Kit	3DM00604CAD1.SMALL

