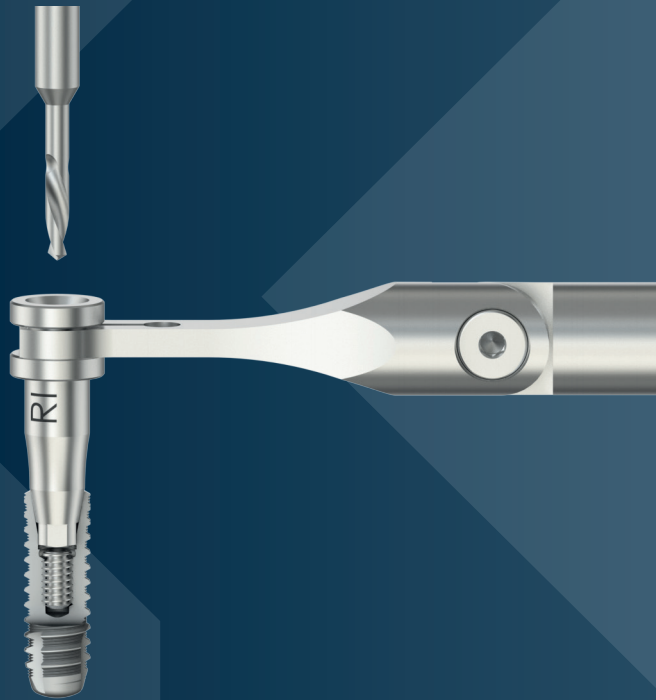


» **MEDENTiKA® Rescue-Kit**
Removal instruments «



MPS

Multi Platform Systems

RESCUE-KIT

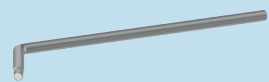
» Rescue-Kit «

The Rescue-Kit from MEDENTiKA® is a set of instruments designed to remove broken abutments and abutment screws.

» Product Overview «

Abutment removal: Loosening tool

The loosening tool is used to loosen an abutment that has become wedged in the conical implant connection.



Page **4**

Abutment removal: Abutment remover

The abutment remover is used to remove an abutment that has become stuck in an implant connection.



Page **5**

Screw removal: Screw remover

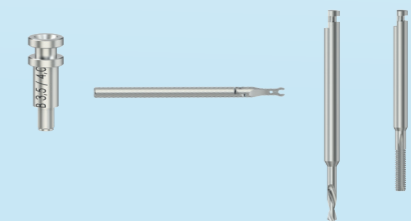
The screw remover is used to remove a broken abutment screw in the internal thread of the implant.



Page **6**

Screw removal: Drilling with the left-handed drill

If it is not possible to remove the broken screw with the screw remover, there is the option of drilling out the residue of the screw from the implant with the left-handed drill.



Page **8**

Instrument overview

Page **10**

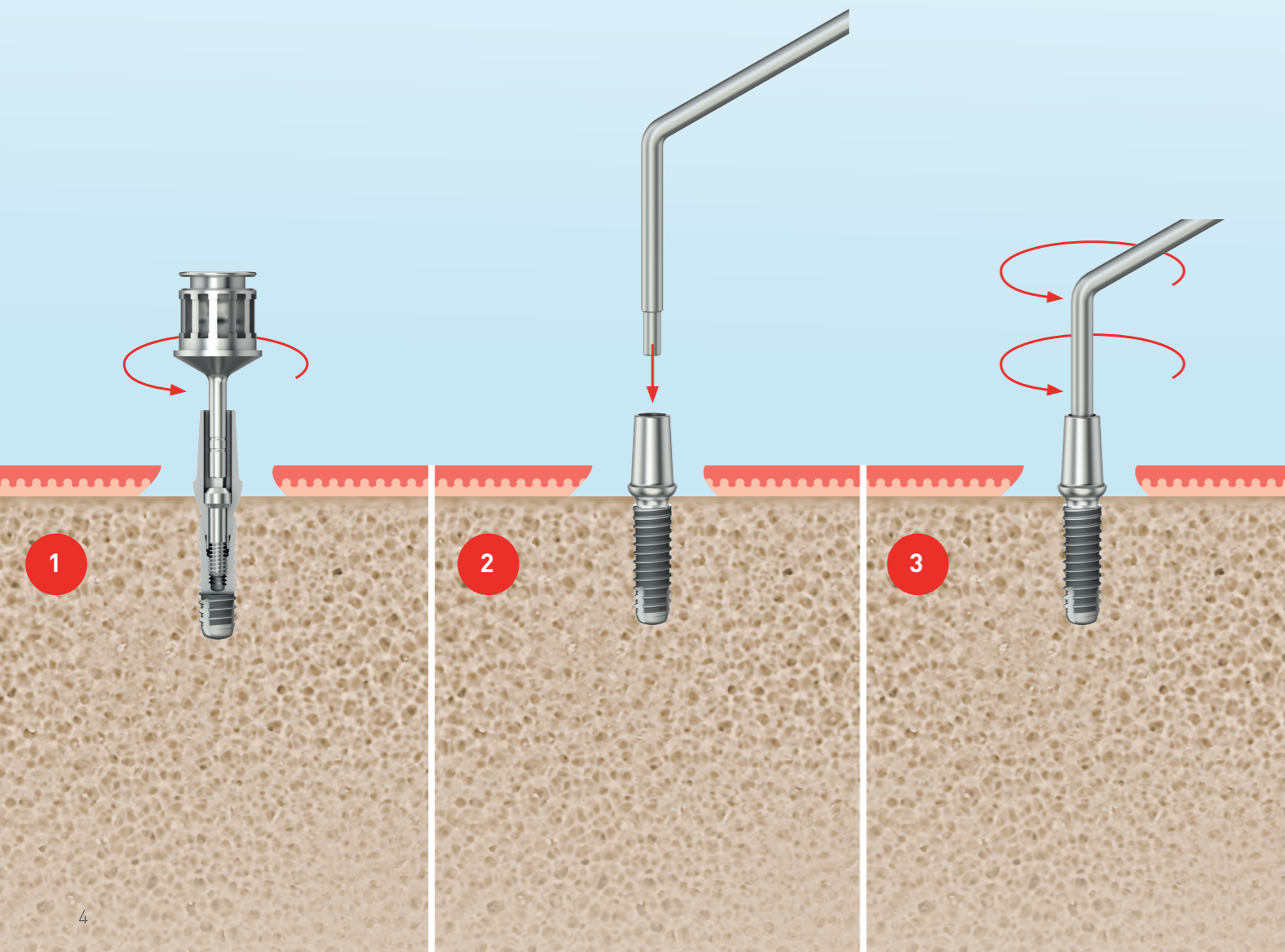
>> Abutment removal <<

Loosening tool for fixed abutments

The abutment screw must be fully screwed out of the internal thread of the implant and then removed from the abutment.

Insert the short angled end of the loosening tool in the abutment screw channel until it is securely seated in the end position.

Release the fixed tapered connection with moderate pressure and circular movements.



>> Abutment removal <<

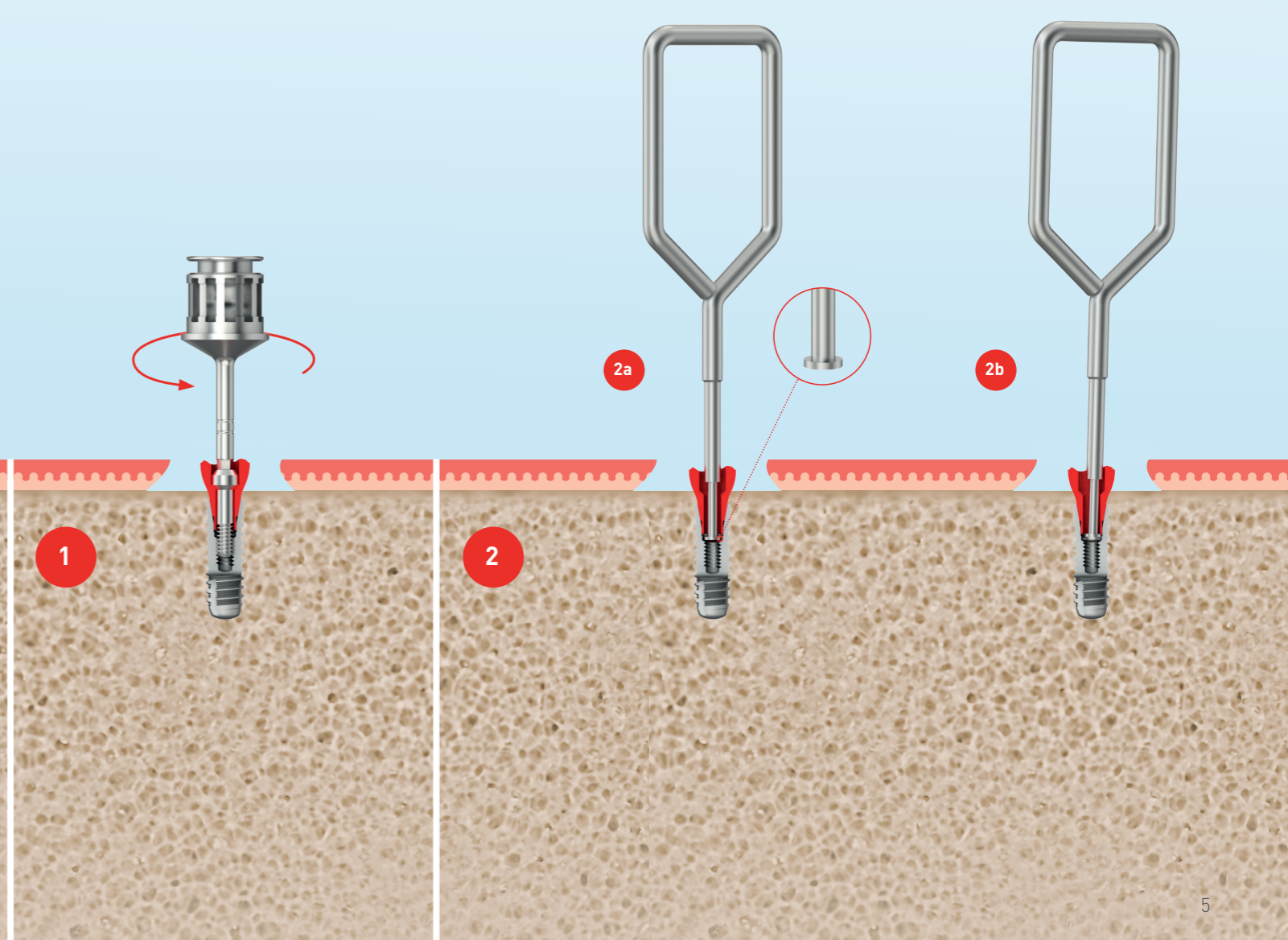
Abutment remover for broken abutments

The abutment screw must be fully screwed out of the internal thread of the implant and then removed from the abutment.

Guide the end of the abutment remover into the abutment screw channel until the disc of the abutment remover reaches the end of the implant connector of the abutment. **2a**

Then move the abutment remover to the side to hook the disk under the wall of the front side of the implant connector. **2b**

Hook the crook into the loop of the abutment remover and tap on the implant to release the embedded abutment residue.



» Screw removal «

Remove the screw residue with the screw remover

Insert the guide sleeve

If necessary, first remove the restoration and check if there is any residue in the internal thread.

Then position the guide sleeve in the end position of the implant connector. Check that the guide sleeve is properly seated in the end position. **1a**

There is also an option to clip the holder onto the guide sleeve to hold it in the end position. **1b**

Screw remover

Guide the screw remover through the screw channel of the guide sleeve. This ensures that the screw remover is centered on the fracture of the screw residue. The tip of the instrument features 3 hardened spikes that grip the surface of the fracture of the screw residue when the screw remover is turned counterclockwise.

If feasible, we recommend exerting vertical pressure on the screw remover with the index finger of one hand while turning the instrument counterclockwise with the other. Repeat this procedure until you feel the thread pop up on the tip of your finger. This means that the screw residue has reached the uppermost thread of the implant.



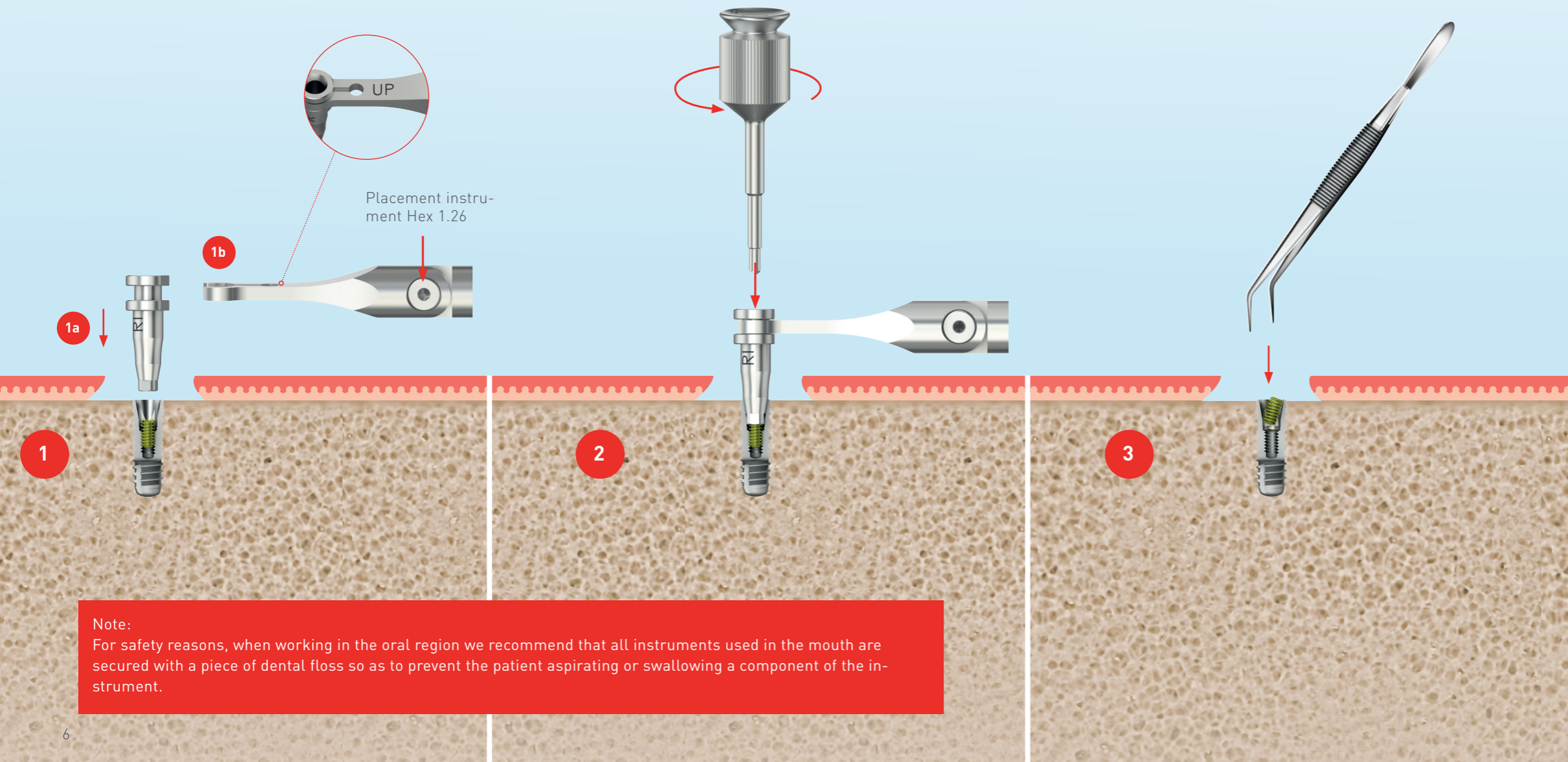
Tweezers

In the last step, we remove the guide sleeve again and remove the screwed out residue of the screw with tweezers.

The screw residue could not be removed



Drilling out the screw residue with the drill on page 8/9, image 1-4.

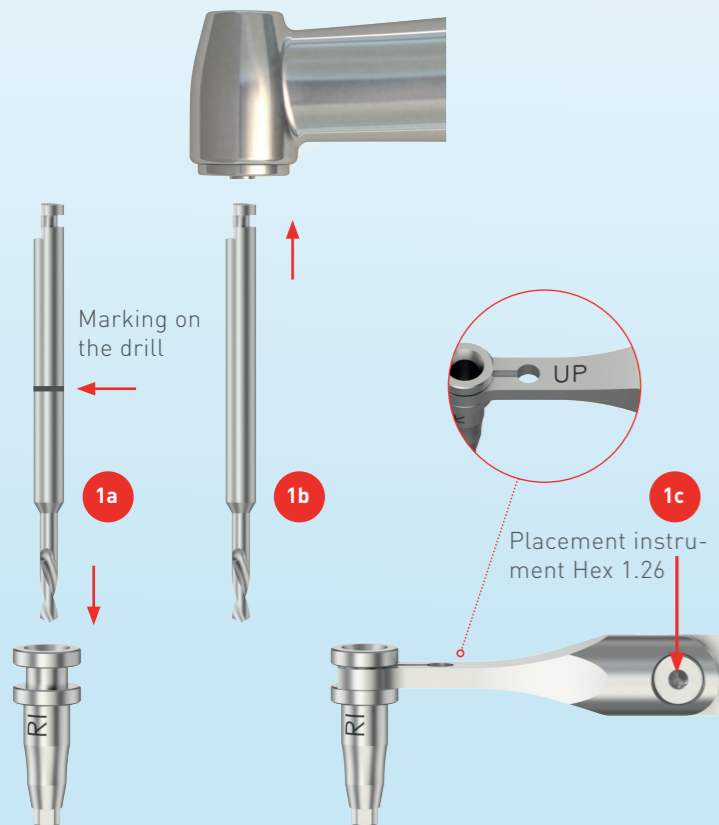


» Screw removal «

Drilling with the left-handed drill

Depth marking of the drill

Guide the drill into the drilling sleeve until it reaches the end position and mark the shaft of the drill with a water-proof pen. **1a**
 Then connect the drill with the contra-angled handpiece. **1b**
 Then you can clip the holder onto the drilling sleeve to hold it in the end position. **1c**



1

Note:
 For safety reasons, when working in the oral region we recommend securing a piece of dental floss to the drilling sleeve to prevent the patient aspirating or swallowing a component of the instrument.

Drill (left-handed)

Insert the drilling sleeve into the implant connector and check that it is properly seated.

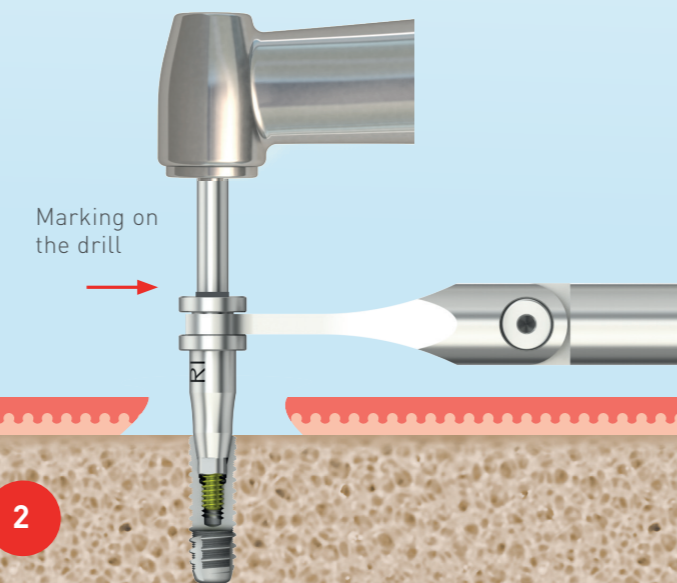
Note: The drilling sleeve ensures that the left-handed drill is centered on the screw and that the drill is properly aligned during drilling. Guide the drill into the drilling sleeve.

NB: The marking should still be clearly visible.

Proceed with drilling. Please note the drilling instructions. The drilling process is complete when the marking is again flush with the drilling sleeve.

NB: The maximum speed of rotation is 1000 rpm.

Adjust drill counterclockwise



2

Note on drilling:

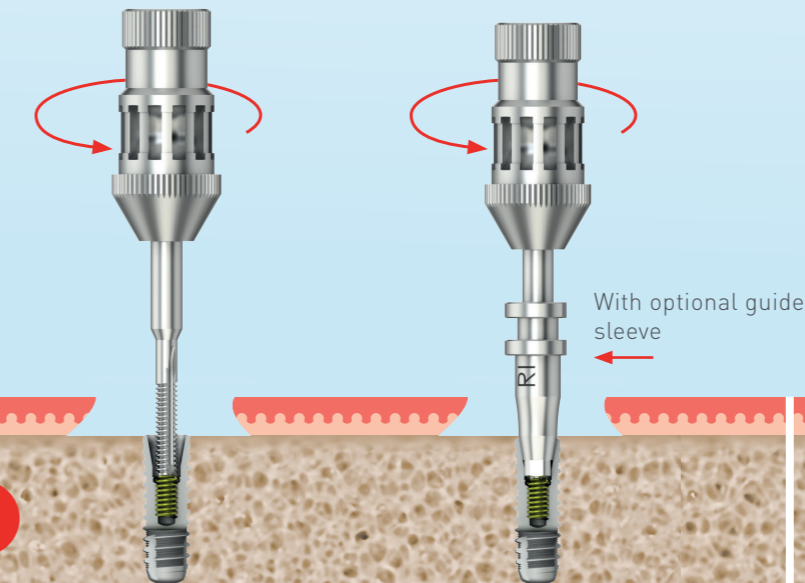
- Only drill with moderate pressure.
- Do not drill for longer than 5 seconds at a time.
- Rinse the area adequately during drilling to ensure that the implant is sufficiently cooled. This procedure has to be repeated several times.
- The drill and guide sleeve have to be regularly removed from the implant so that the drilling debris can be thoroughly cleaned away.
- As a general rule, excessive overheating of the implant should be avoided.



Thread cleaner

If you feel resistance in the thread, it is restored with the thread cleaner. Connect the thread cleaner with the adapter ISO shaft. The thread cleaner must be inserted into the thread without great force.

Note: Proceed slowly when cleaning and only work manually. Rotate 1/2 a turn to the right and then back 1/4 of a turn. After 2 turns completely twist the thread cleaner out of the implant. The thread cleaner and the implant have to be rinsed with air-water spray. Repeat the procedure until you reach the end of the thread. At the end, completely twist out the thread cleaner and thoroughly rinse the implant. Then check that the implant is properly seated with an abutment and the corresponding screw or the gingiva former.

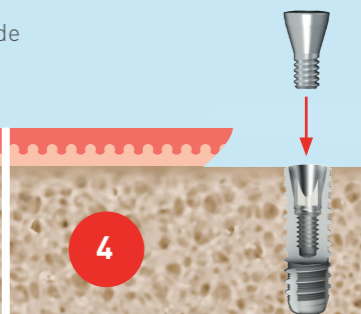


3

Check internal thread









After successful cleaning, check the internal thread of the implant for damage and functionality.

A gingiva former, for instance, can be used to check this. If it is possible to screw this in place and there is no resistance, the new screw can be screwed in place.



4

The product overview is designed to aid the correct selection and combination of the instruments required for the relevant implant connection.

Rescue-Kit - Product Overview											
				Abutment removal		Screw removal					
				fixed abutment	broken abutment	Remove the screw residue			Drilling out the screw residue		
				Loosening tool	Abutment remover	Holder	Guide sleeve	Screw remover	Drilling sleeve	Drill (left-handed)	Thread cleaner*
											
Series	compatible with	Implant connection	Thread	Single-use product	Single-use product		Single-use product	Single-use product	Single-use product	Single-use product	Single-use product
B-Series	Bredent Medical / SKY®*	NP	M 1,8	M 35	M 69	M 86	B 40 RT	M 07	B 40 RK	M 82	M 73
BS-Series	BEGO Implant Systems/ Semados®* S/SC/SCX/RS/R SX/RI	D 3,25-5,5	M 1,8	M 35	M 69	M 86	BS 40 RT	M 07	BS 40 RK	M 82	M 73
C-Series	Altatec / Camlog®* MEDENTiKA® / Procone	D 3,3	M 1,6		M 68	M 86	C 40 RT	M 06	C 40 RK	M 81	M 72
		D 3,8	M 1,6		M 68	M 86	C 41 RT	M 06	C 41 RK	M 81	M 72
		D 4,3	M 1,6		M 68	M 86	C 42 RT	M 06	C 42 RK	M 81	M 72
		D 5,0/6,0	M 2,0		M 70	M 86	C 43 RT	M 08	C 43 RK	M 83	M 74
CX-Series	Medentis Medical / ICX	D 3,75-4,8	M 1,6	M34	M 68	M 86	CX 40 RT	M 06	CX 40 RK	M 81	M 72
D-Series	Altatec / Conelog®*	D 3,3	M 1,6	M34	M 68	M 86	D 40 RT	M 06	D 40 RK	M 81	M 72
		D 3,8/4,3	M 1,6	M34	M 68	M 86	D 41 RT	M 06	D 41 RK	M 81	M 72
E-Series	Nobel Biocare / NobelReplace®* Tapered	NP 3,5	M 1,8	M 35	M 69	M 86	E 40 RT	M 07	E 40 RK	M 82	M 73
		RP 4,3	M 2,0		M 70	M 86	E 41 RT	M 08	E 41 RK	M 83	M 74
		WP 5,0	M 2,0		M 70	M 86	E 42 RT	M 08	E 42 RK	M 83	M 74
		D 6,0	M 2,0		M 70	M 86	E 43 RT	M 08	E 43 RK	M 83	M 74
EV-Series	DENTSPLY Implants / ASTRA TECH OsseoSpeed®* EV	D 3,0	M 1,4		M 67	M 86	EV 40 RT	M 63	EV 40 RK	M 80	M 71
		D 3,6	M 1,6	M34	M 68	M 86	EV 41 RT	M 06	EV 41 RK	M 81	M 72
		D 4,2	M 1,8	M 35	M 69	M 86	EV 42 RT	M 07	EV 42 RK	M 82	M 73
		D 4,8	M 2,0	M35	M 70	M 86	EV 43 RT	M 08	EV 43 RK	M 83	M 74
		D 5,4	M 2,0	M35	M 70	M 86	EV 44 RT	M 08	EV 44 RK	M 83	M 74
F-Series	Nobel Biocare/ NobelActive®* NobelReplace®*Conical	D 3,0	M 1,4		M 67	M 86	F 42 RT	M 63	F 42 RK	M 80	M 71
		NP 3,5	M 1,6	M34	M 68	M 86	F 40 RT	M 06	F 40 RK	M 81	M 72
		RP 4,3/5,0	M 2,0	M35	M 70	M 86	F 41 RT	M 08	F 41 RK	M 83	M 74
H-Series	BIOMET 3i / Certain®*	D 3,4	M 1,6		M 68	M 86	H 40 RT	M 06	H 40 RK	M 81	M 72
		D 4,1/5,0	M 1,6		M 68	M 86	H 41 RT	M 06	H 41 RK	M 81	M 72

*in combination with the Adapter ISO shank M 14

The product overview is designed to aid the correct selection and combination of the instruments required for the relevant implant connection.

Rescue-Kit - Product Overview																	
				Abutment removal		Screw removal											
fixed abutment		broken abutment				Remove the screw residue		Drilling out the screw residue									
Loosening tool		Screw remover		Holder		Guide sleeve		Screw remover		Drilling sleeve		Drill (left-handed)		Thread cleaner*			
Series		compatible with		Implant connection		Thread		Single-use product		Single-use product		Single-use product		Single-use product		Single-use product	
I-Series	BIOMET 3i / External Hex	D 3,4	M 2,0		M 70	M 86	I 40 RT	M 08	I 40 RK	M 83	M 74						
		D 4,1/5,0	M 2,0		M 70	M 86	I 41 RT	M 08	I 41 RK	M 83	M 74						
K-Series	Nobel Biocare / Brånemark System®*	NP 3,5	M 1,6		M 68	M 86	K 40 RT	M 06	K 40 RK	M 81	M 72						
		RP 4,1	M 2,0		M 70	M 86	K 41 RT	M 08	K 41 RK	M 83	M 74						
L-Series	Straumann / Bone Level	NC 3,3	M 1,6	M34	M 68	M 86	L 40 RT	M 06	L 40 RK	M 81	M 72						
		RC 4,1/4,8	M 1,6	M34	M 68	M 86	L 41 RT	M 06	L 41 RK	M 81	M 72						
N-Series	Straumann / Tissue Level	NNC 3,5	M 1,6	M 34	M 68	M 86	N 43 RT	M 06	N 43 RK	M 81	M 72						
		RN 4,8	M 2,0	M 35	M 70	M 86	N 41 RT	M 08	N 41 RK	M 83	M 74						
		WN 6,5	M 2,0	M 35	M 70	M 86	N 42 RT	M 08	N 42 RK	M 83	M 74						
OT-Series	OSSTEM Implant / TS-System HiOssen Implant®* / ET-System T-Plus Implant Tech / A+ Implant/ ST Implant	M	M 1,6	M34	M 68	M 86	OT 40 RT	M 06	OT 40 RK	M 81	M 72						
		R	M 2,0	M35	M 70	M 86	OT 41 RT	M 08	OT 41 RK	M 83	M 74						
R-Series	Zimmer Dental / Tapered Screw-Vent®* MIS / SEVEN Inertnal Hex BioHorizons / Tapered Internal Tapered Internal Plus/Tapered Tissue Level	D 3,5	M 1,8	M 35	M 69	M 86	R 40 RT	M 07	R 40 RK	M 82	M 73						
		D 4,5	M 1,8	M 35	M 69	M 86	R 41 RT	M 07	R 41 RK	M 82	M 73						
		D 5,7	M 1,8	M 35	M 69	M 86	R 42 RT	M 07	R 42 RK	M 82	M 73						
S-Series	DENTSPLY Implants / ASTRA TECH OsseoSpeed®* TX	D 3,0	M 1,4		M 67	M 86	S 43 RT	M 63	S 43 RK	M 80	M 71						
		D 3,5/4,0	M 1,6	M34	M 68	M 86	S 40 RT	M 06	S 40 RK	M 81	M 72						
		D 4,5/5,0	M 2,0	M35	M 70	M 86	S 42 RT	M 08	S 42 RK	M 83	M 74						
T-Series	DENTSPLY Implants / XiVE®* S	D 3,4	M 1,6		M 68	M 86	T 40 RT	M 06	T 40 RK	M 81	M 72						
		D 3,8	M 1,6		M 68	M 86	T 45 RT	M 06	T 45 RK	M 81	M 72						
		D 4,5	M 1,6		M 68	M 86	T 41 RT	M 06	T 41 RK	M 81	M 72						
		D 5,5	M 1,6		M 68	M 86	T 42 RT	M 06	T 42 RK	M 81	M 72						
Y-Series	DENTSPLY Implants / ANKYLOS® C/X	/X 3,5/7,0	M 1,8	M 35	M 69	M 86	Y 40X RT	M 07	Y 40X RK	M 82	M 73						
MEDENTIKA® A Straumann Group Brand	MEDENTIKA® Microcone/Quattrocone/Quattrocone30	NI	M 1,4		M 67	M 86	1-33-02	M 63	1-33-01	M 80	M 71						
		RI	M 1,6	M34	M 68	M 86	2-33-02	M 06	2-33-01	M 81	M 72						
		AI	M 1,6	M34	M 68	M 86	4-33-02	M 06	4-33-01	M 81	M 72						

*in combination with the Adapter ISO shank M 14



Publisher: MEDENTiKA® GmbH
Hammweg 8-10
76549 Hügelsheim
Tel: +49 (0)7229 69912-10
info@medentika.de
www.medentika.com

Design: The WeberFink GbR
graphic design studio
www.weberfink.de

Date: December 2019

We are certified:
DIN EN ISO 13485
Medical Device Directive 93/42/EEC
Annex II

CE0483

Technical changes and errors reserved.

You can find the Instructions for use and warranty conditions on the website www.medentika.com
More information on the warranty can also be requested directly from the manufacturer

MEDENTiKA® GmbH
Hammweg 8-10
76549 Hügelsheim
info@medentika.de
www.medentika.com

»» Passion
for **Precision** ««