

MPS

IPS

# Rescue-Kit

## Removal instruments

# 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

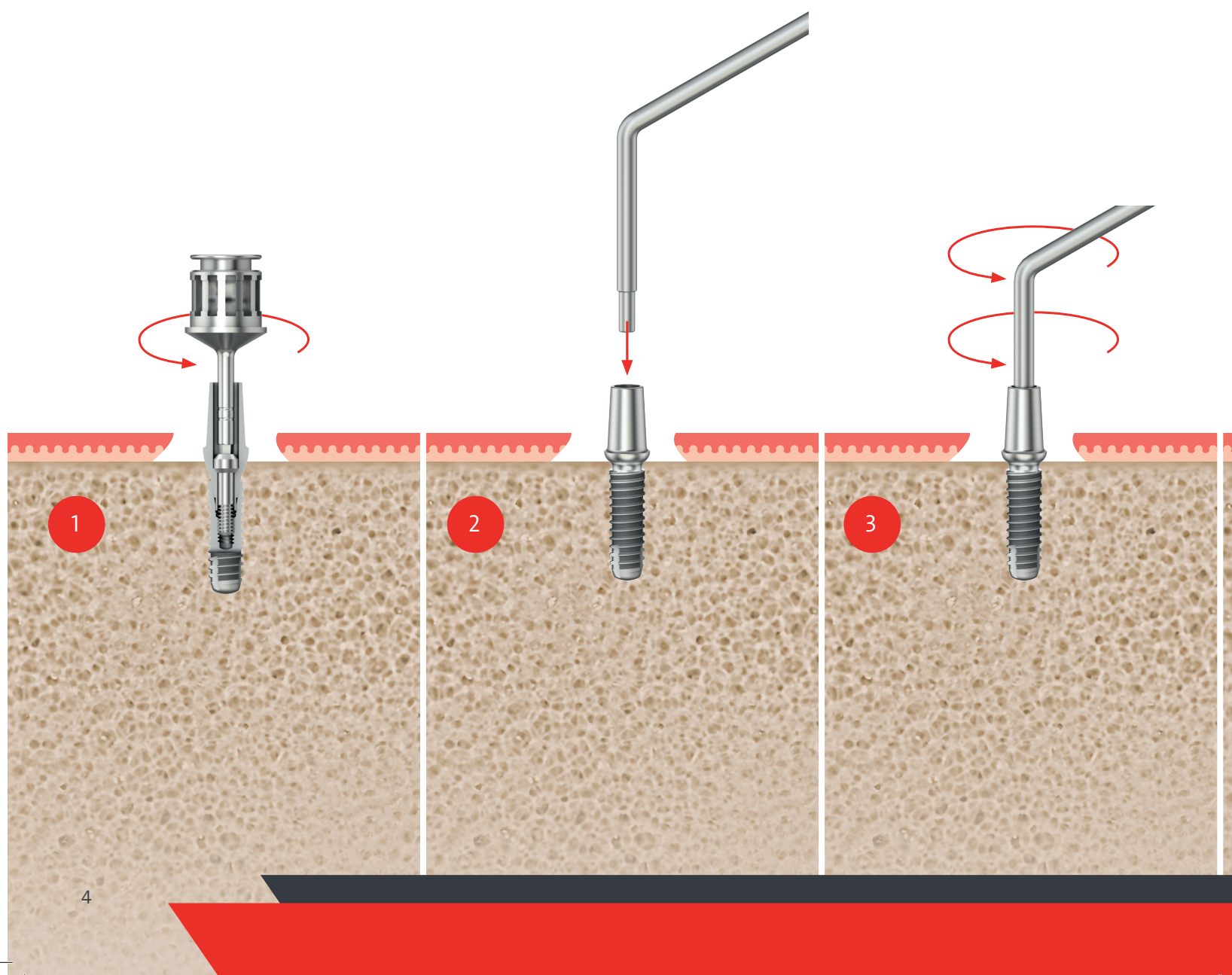
# Abutment removal

## 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

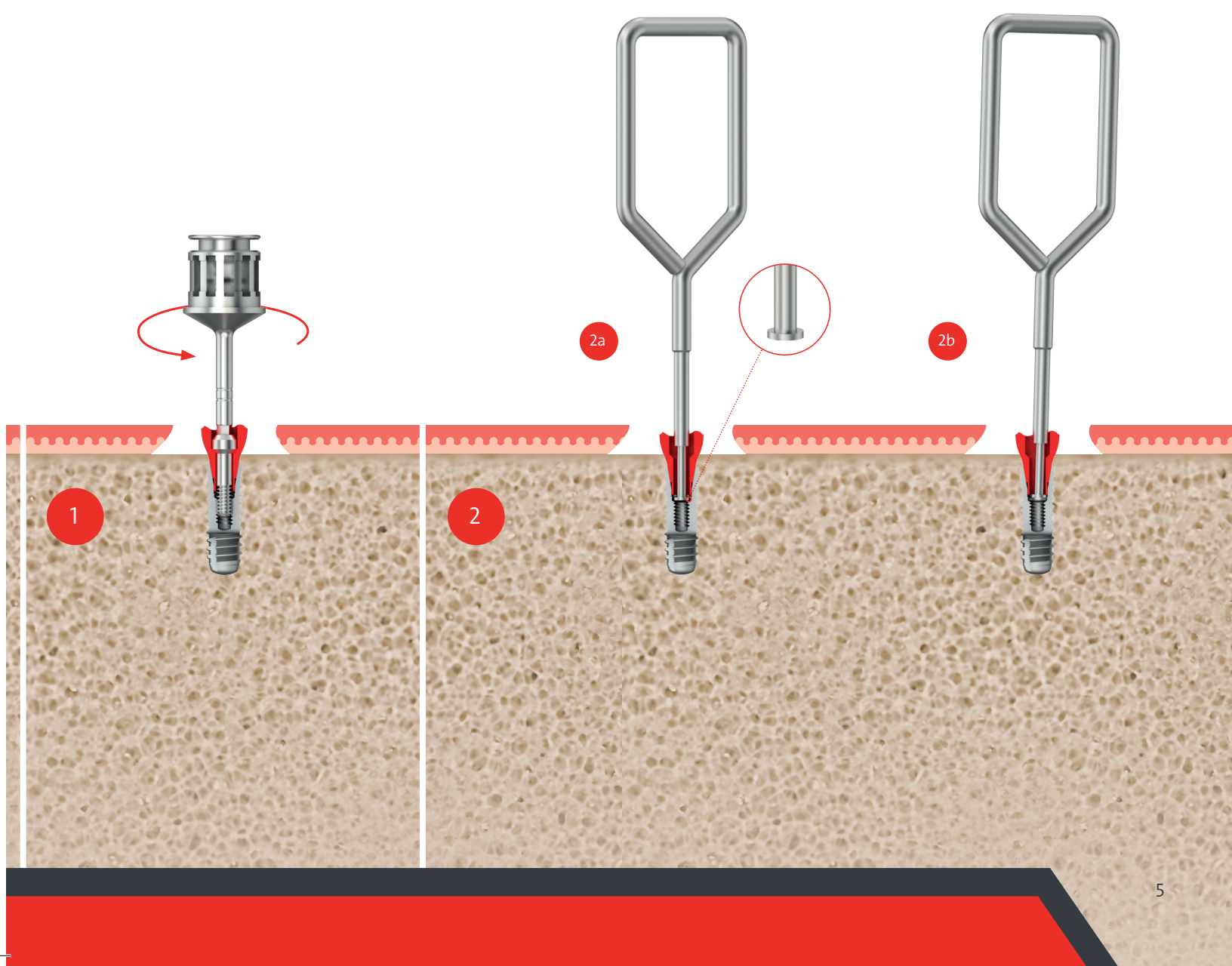
## Abutment remover for broken abutments

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.

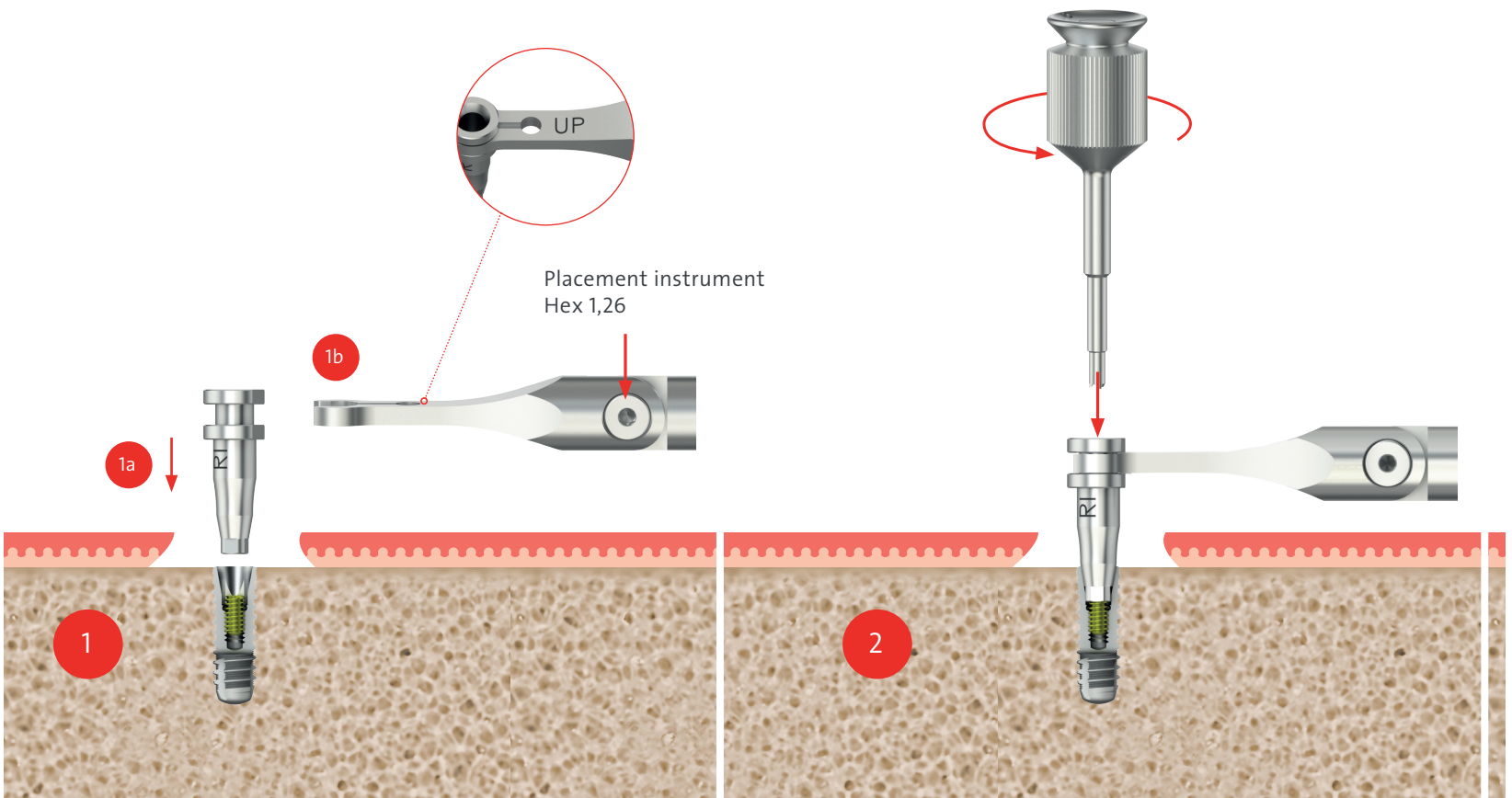
Then position the guide sleeve in the end position of the implant connector. Check that the guide sleeve is properly seated in the end position. **1a**

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.

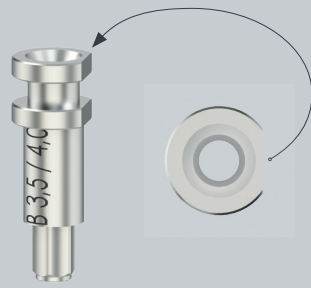
If feasible, we recommend exerting vertical pressure on the screw remover with the index finger of one hand while turning the instrument counterclockwise with the other. Repeat this procedure until you feel the thread pop up on the tip of your finger. This means that the screw residue has reached the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



#### Note:

For safety reasons, when working in the oral region we recommend that all instruments used in the mouth are secured with a piece of dental floss so as to prevent the patient aspirating or swallowing a component of the instrument.

Please note:  
The guide sleeve has  
**a flat side.**



## 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.



3

## Expanded procedure

# Screw removal

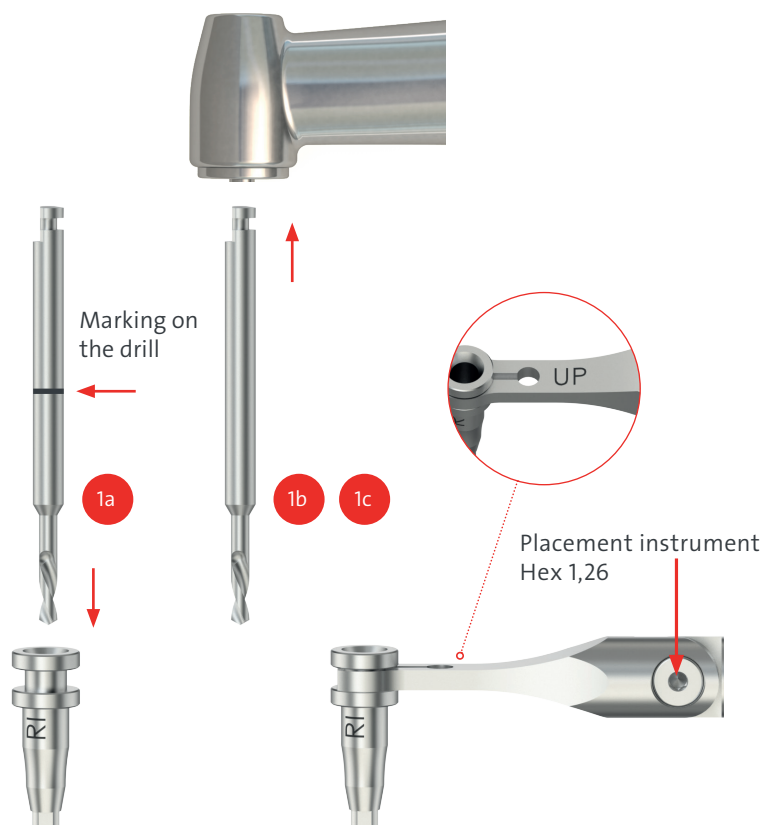
## Drilling with the left-handed drill

### 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 waterproof 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**



### Drill (left-handed)

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

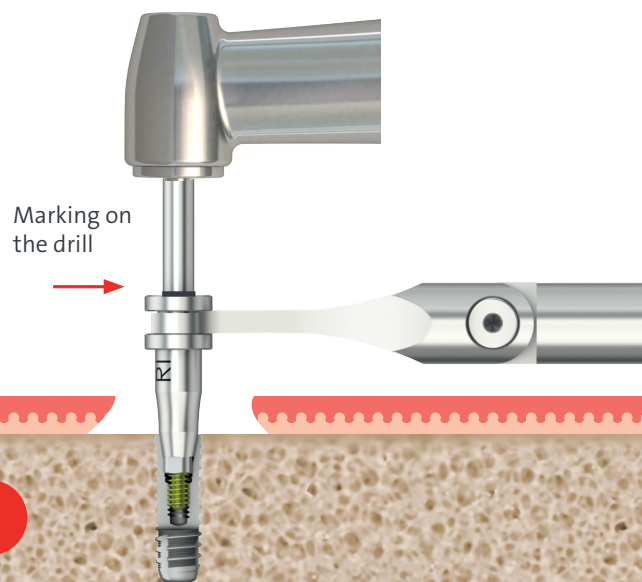
Note: The drilling sleeve ensures that the left-handed drill is centered on the screw and that the drill is properly aligned during drilling. Guide the drill into the drilling sleeve.

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**



Note:

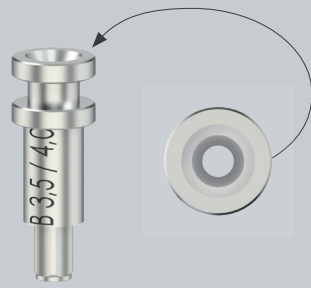
For safety reasons, when working in the oral region we recommend securing a piece of dental floss to the drilling sleeve to prevent the patient aspirating or swallowing a component of the instrument.

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.



Please note:  
The drilling sleeve  
does not have a flat side.



## Thread cleaner

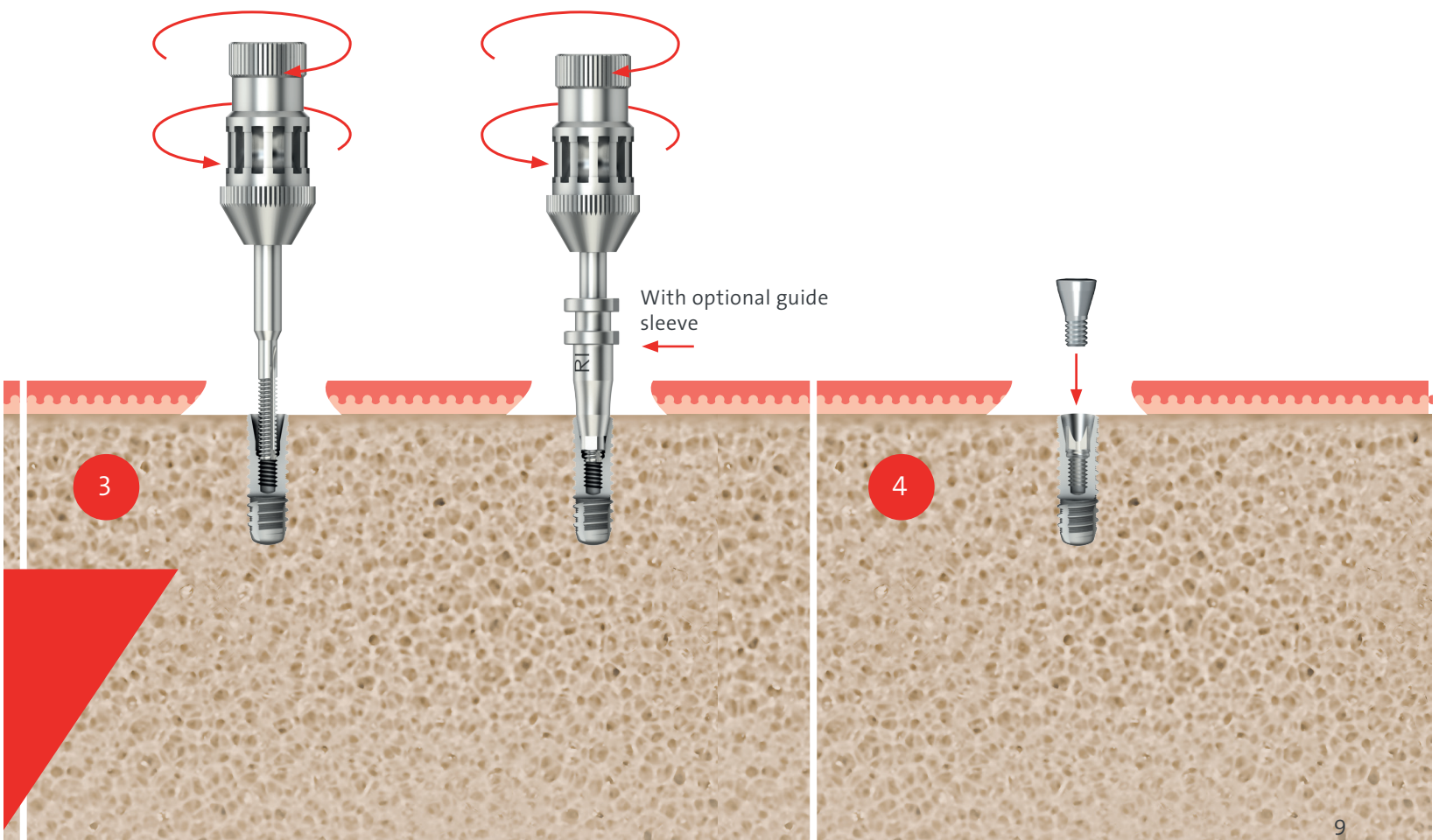
If you feel resistance in the thread, it is restored with the thread cleaner. Connect the thread cleaner with the adapter ISO shaft. The thread cleaner must be inserted into the thread without great force.

Note: Proceed slowly when cleaning and only work manually. Rotate  $\frac{1}{2}$  a turn to the right and then back  $\frac{1}{4}$  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.



## 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.





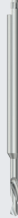



The product overview is designed to aid the correct selection and combination of the instruments required for the relevant implant connection.

Abutment removal	
fixed abutment	broken abutment
Loosening tool	Abutment remover
	
Single-use product	Single-use product



Series	compatible with	Implant connection	Thread	Single-use product	Single-use product
<b>B-Series</b>	Bredent Medical / SKY**	NP	M 1.8	M 35	M 69
<b>BS-Series</b>	BEGO Implant Systems/ Semados** S/SC/SCX/RS/R SX/RI	D 3.25-5.5	M 1.8	M 35	M 69
<b>C-Series</b>	Camlog / Camlog** Medentika° / Procone	D 3.3	M 1.6		M 68
		D 3.8	M 1.6		M 68
		D 4.3	M 1.6		M 68
		D 5.0/6.0	M 2.0		M 70
<b>CX-Series</b>	Medentis Medical / ICX	D 3.75-4.8	M 1.6	M 34	M 68
<b>D-Series</b>	Altatec / Conelog**	D 3.3	M 1.6	M 34	M 68
		D 3.8/4.3	M 1.6	M 34	M 68
<b>DT-Series</b>	Superline. Implantium. Implantium II	D 3.6-7.0	M 2.0	M 35	M 70
<b>E-Series</b>	Nobel Biocare / NobelReplace** Tapered	NP 3.5	M 1.8	M 35	M 69
		RP 4.3	M 2.0		M 70
		WP 5.0	M 2.0		M 70
		D 6.0	M 2.0		M 70
<b>EV-Series</b>	DENTSPLY SIRONA / ASTRA TECH OsseoSpeed** EV	D 3.0	M 1.4		M 67
		D 3.6	M 1.6	M 34	M 68
		D 4.2	M 1.8	M 35	M 69
		D 4.8	M 2.0	M 35	M 70
		D 5.4	M 2.0	M 35	M 70
<b>F-Series</b>	Nobel Biocare/ NobelActive** NobelReplace**Conical	D 3.0	M 1.4		M 67
		NP 3.5	M 1.6	M 34	M 68
		RP 4.3/5.0	M 2.0	M 35	M 70
<b>H-Series</b>	BIOMET 3i / Certain**	D 3.4	M 1.6		M 68
		D 4.1/5.0	M 1.6		M 68


## Rescue-Kit - Product Overview

Screw removal					
	Remove the screw residue		Drilling out the screw residue		
Holder	Guide sleeve	Screw remover	Drilling sleeve	Drill (left-handed)	Thread cleaner*
					
	Single-use product	Single-use product	Single-use product	Single-use product	Single-use product
M 86	B 40 RT	M 07	B 40 RK	M 82	M 73
M 86	BS 40 RT	M 07	BS 40 RK	M 82	M 73
M 86	C 40 RT	M 06	C 40 RK	M 81	M 72
M 86	C 41 RT	M 06	C 41 RK	M 81	M 72
M 86	C 42 RT	M 06	C 42 RK	M 81	M 72
M 86	C 43 RT	M 08	C 43 RK	M 83	M 74
M 86	CX 40 RT	M 06	CX 40 RK	M 81	M 72
M 86	D 40 RT	M 06	D 40 RK	M 81	M 72
M 86	D 41 RT	M 06	D 41 RK	M 81	M 72
M 86	DT 40 RT	M 08	DT 40 RK	M 83	M 74
M 86	E 40 RT	M 07	E 40 RK	M 82	M 73
M 86	E 41 RT	M 08	E 41 RK	M 83	M 74
M 86	E 42 RT	M 08	E 42 RK	M 83	M 74
M 86	E 43 RT	M 08	E 43 RK	M 83	M 74
M 86	EV 40 RT	M 63	EV 40 RK	M 80	M 71
M 86	EV 41 RT	M 06	EV 41 RK	M 81	M 72
M 86	EV 42 RT	M 07	EV 42 RK	M 82	M 73
M 86	EV 43 RT	M 08	EV 43 RK	M 83	M 74
M 86	EV 44 RT	M 08	EV 44 RK	M 83	M 74
M 86	F 42 RT	M 63	F 42 RK	M 80	M 71
M 86	F 40 RT	M 06	F 40 RK	M 81	M 72
M 86	F 41 RT	M 08	F 41 RK	M 83	M 74
M 86	H 40 RT	M 06	H 40 RK	M 81	M 72
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.

Abutment removal	
fixed abutment	broken abutment
Loosening tool	Screw remover
	
Single-use product	Single-use product

Series	compatible with	Implant connection	Thread	Single-use product	Single-use product
I-Series	BIOMET 3i / External Hex	D 3.4	M 2.0		M 70
		D 4.1/5.0	M 2.0		M 70
K-Series	Nobel Biocare / Brånemark System**	NP 3.5	M 1.6		M 68
		RP 4.1	M 2.0		M 70
L-Series	Straumann / Bone Level	NC 3.3	M 1.6	M 34	M 68
		RC 4.1/4.8	M 1.6	M 34	M 68
N-Series	Straumann / Tissue Level	NNC 3.5	M 1.6	M 34	M 68
		RN 4.8	M 2.0	M 35	M 70
		WN 6.5	M 2.0	M 35	M 70
OT-Series	OSSTEM Implant / TS-System HiOssen Implant** / ET-System T-Plus Implant Tech / A+ Implant/ ST Implant	M	M 1.6	M 34	M 68
		R	M 2.0	M 35	M 70
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
		D 4.5	M 1.8	M 35	M 69
		D 5.7	M 1.8	M 35	M 69
S-Series	DENTSPLY SIRONA / ASTRA TECH OsseoSpeed** TX	D 3.0	M 1.4		M 67
		D 3.5/4.0	M 1.6	M 34	M 68
		D 4.5/5.0	M 2.0	M 35	M 70
T-Series	DENTSPLY SIRONA / XIVE** S	D 3.4	M 1.6		M 68
		D 3.8	M 1.6		M 68
		D 4.5	M 1.6		M 68
		D 5.5	M 1.6		M 68
Y-Series	DENTSPLY SIRONA / ANKYLOS® C/X	/X 3.5/7.0	M 1.8	M 35	M 69
 A Straumann Group Brand	Medentika® Microcone/Quattrocone/Quattrocone30	NI	M 1.4		M 67
		RI	M 1.6	M 34	M 68
		AI	M 1.6	M 34	M 68

## Rescue-Kit - Product Overview

Screw removal					
	Remove the screw residue		Drilling out the screw residue		
Holder	Guide sleeve	Screw remover	Drilling sleeve	Drill (left-handed)	Thread cleaner*
					
	Single-use product	Single-use product	Single-use product	Single-use product	Single-use product
M 86	I 40 RT	M 08	I 40 RK	M 83	M 74
M 86	I 41 RT	M 08	I 41 RK	M 83	M 74
M 86	K 40 RT	M 06	K 40 RK	M 81	M 72
M 86	K 41 RT	M 08	K 41 RK	M 83	M 74
M 86	L 40 RT	M 06	L 40 RK	M 81	M 72
M 86	L 41 RT	M 06	L 41 RK	M 81	M 72
M 86	N 43 RT	M 06	N 43 RK	M 81	M 72
M 86	N 41 RT	M 08	N 41 RK	M 83	M 74
M 86	N 42 RT	M 08	N 42 RK	M 83	M 74
M 86	OT 40 RT	M 06	OT 40 RK	M 81	M 72
M 86	OT 41 RT	M 08	OT 41 RK	M 83	M 74
M 86	R 40 RT	M 07	R 40 RK	M 82	M 73
M 86	R 41 RT	M 07	R 41 RK	M 82	M 73
M 86	R 42 RT	M 07	R 42 RK	M 82	M 73
M 86	S 43 RT	M 63	S 43 RK	M 80	M 71
M 86	S 40 RT	M 06	S 40 RK	M 81	M 72
M 86	S 42 RT	M 08	S 42 RK	M 83	M 74
M 86	T 40 RT	M 06	T 40 RK	M 81	M 72
M 86	T 45 RT	M 06	T 45 RK	M 81	M 72
M 86	T 41 RT	M 06	T 41 RK	M 81	M 72
M 86	T 42 RT	M 06	T 42 RK	M 81	M 72
M 86	Y 40X RT	M 07	Y 40X RK	M 82	M 73
M 86	1-33-02	M 63	1-33-01	M 80	M 71
M 86	2-33-02	M 06	2-33-01	M 81	M 72
M 86	4-33-02	M 06	4-33-01	M 81	M 72

\*in combination with the Adapter ISO shank M 14





**Editor**

Medentika® GmbH

As at: October 2020

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

**CE0483**

The electronic Instructions for Use for our  
products are available on the website  
[www.medentika.com](http://www.medentika.com).

# MEDENTiKA® Rescue-Kit Removal instruments

- Abutment removal: Loosening tool
- Abutment removal: Abutment remover
- Screw removal: Screw remover
- Screw removal: Drilling with the left-handed drill

PM02\_00\_0004\_EN 10/20

»» Passion for  
Precision ««

Medentika® GmbH  
Hammweg 8–10  
76549 Hügelsheim  
info@medentika.de  
www.medentika.com

© Medentika® GmbH, 2020. All rights reserved.  
Medentika® and/or other trademarks and logos from Medentika® mentioned herein are the trademarks or registered trademarks of Medentika® and/or its affiliates.

 **MEDENTiKA®**  
A Straumann Group Brand