



Cassettes **U**

# SURGICAL CASSETTE TRR-MINI

## instructions for use

The TRR-mini surgical cassette has a new design and layout:

- Ergonomic, compact and easy to carry
- Laser markings on the tray
- Has drill length check

For implant systems: **ROOTT R**

## HOW TO OPEN AND CLOSE TRR-MINI CASSETTE



Take a cassette so that the logo of ROOTT is facing towards you. Push the coverlid to the right side till every instrument in the cassette is visible and remove coverlid.

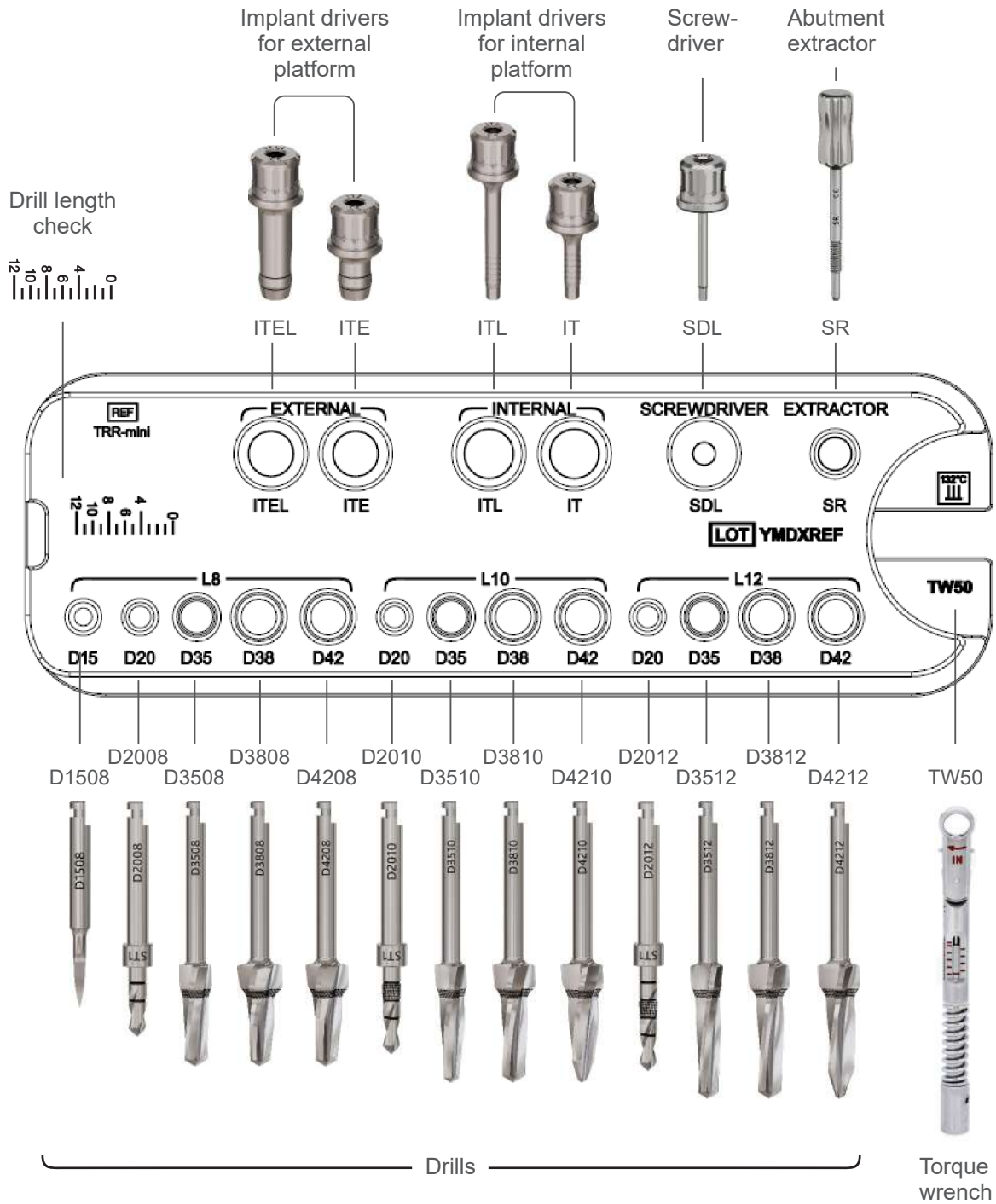


Put the coverlid with the ROOTT logo facing towards you in the grooves, and push it to the left side until it covers all of the instruments.

Surgical cassette must be cleaned, disinfected and sterilized before and between each use. Do not use damaged instruments.

**CASSETTE DOES NOT INCLUDE INSTRUMENTS, THESE ARE SOLD SEPARATELY.**

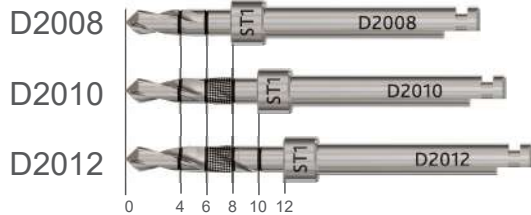
# CONTENT



## Drills

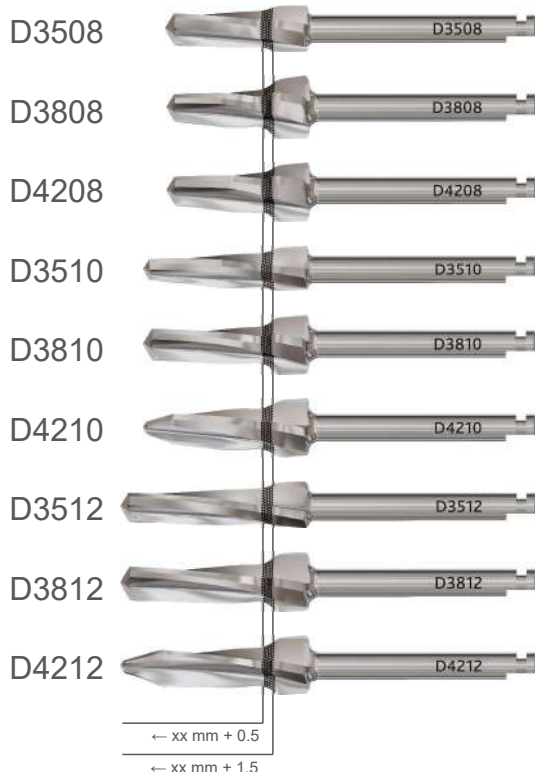
D1508 

**Lance drill D1508** can be used for initial drilling by setting the drilling axis before using twist and form drills.



**Form drills** are used to widen cavity to the planned diameter. Drills can form hole on uneven bone surfaces which does not require additional corrections for placing ROOTT R implant and healing abutment. Lower forces for implant insertions. Drill end have healing abutments contour. Laser markings at implant length+0.5 mm and implant length+1.5 mm.

**Twist drills** D2008, D2010, D2012 are used as pilot drills. These drills have stopper, which stops drill from making deeper hole than needed. Drills have marking grooves so they can be used for depth measurement via x-ray. Have laser markings from 4 mm each 2 mm.

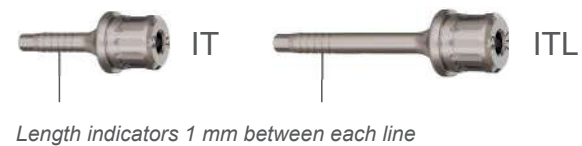


## Implant drivers

**For external platform, insertion via carrier.**  
To control the implant insertion depth, have two lasered round lines at 2 and 4 mm.



**For internal platform, direct insertion.**  
Have length indicators.



## Screwdrivers

For all ROOTT dental implant system screws. Long screwdriver is suitable for all superstructures. Conical tip of the hex helps to grab screw.



## Abutment extractor

For easy superstructure removal in case if conical connection hold tight a part inside of ROOTT R implant



## Torque wrench

Torque wrench is suitable for all instruments with head for ratchet. Maximal torque is 50 Ncm.



# ROOTT **R**

## STEP 1: Preparing cavity

STEP 2: Implant insertion via carrier

STEP 3: Removing carrier

STEP 4: Implant insertion directly



**Example:**  
ROOTT R implant  
Ø 3.5 mm  
Length – 12 mm

R3512



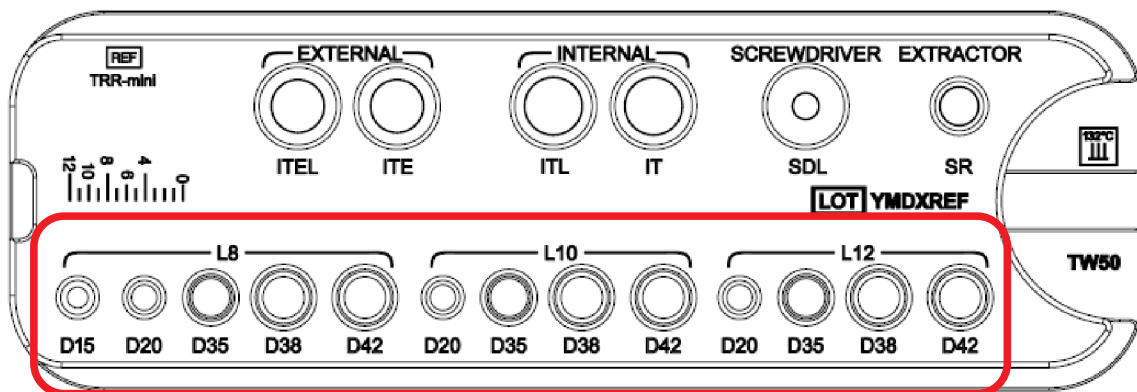
D1508



D2012



D3512



- Step 1** Take a lance drill D1508 to make the first mark on the bone.
- Step 2** Take a twist pilot D20xx\* drill to define the direction of the implant and to enlarge diameter of the hole. Use same length drill as implant. Stopper will not allow to drill deeper.
- Step 3** Take a form drill DXXxx\* to enlarge diameter of the hole. Use same diameter and length drill as implant.

We recommend that hole diameter should be gradually increased until the intended diameter of the implant is reached.

For D4 bone use a diameter smaller drill than implant. Drill till the lasering mark at  $xx^*+0.5$ .

For D2-D3 bone use the same diameter drill as the implant. Drill till the lasering mark at  $xx^*+0.5$ .

For D1 bone use the same diameter drill as the implant. Drill deeper, till the lasering mark at  $xx^*+1.5$ .

\*XX is diameter, xx is length, mm



## Drilling protocol for TRR-mini set

Implant	D4 BONE	D2-D3 BONE	D1 BONE
Ø 3.5 mm	X	D1508 D20xx D35xx	D1508 D20xx D35xx
Ø 3.8 mm	D1508 D20xx D35xx	D1508 D20xx D35xx D38xx	D1508 D20xx D35xx D38xx
Ø 4.2 mm	D1508 D20xx D35xx D38xx	D1508 D20xx D35xx D38xx D42xx	D1508 D20xx D35xx D38xx D42xx

Table 1

# ROOTT R

- STEP 1: Preparing cavity**  
 STEP 2: Implant insertion via carrier  
 STEP 3: Removing carrier  
 STEP 4: Implant insertion directly



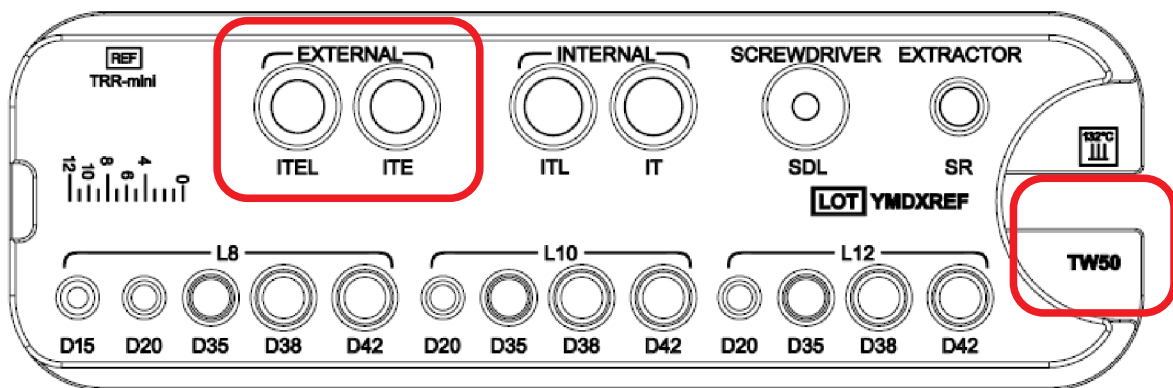
R3512

**Example:**  
 ROOTT R implant  
 Ø 3.5 mm  
 Length – 12 mm



ITE

ITEL



**Step 1** Take an implant driver for external platform ITE/ITEL for inserting an implant via a carrier.

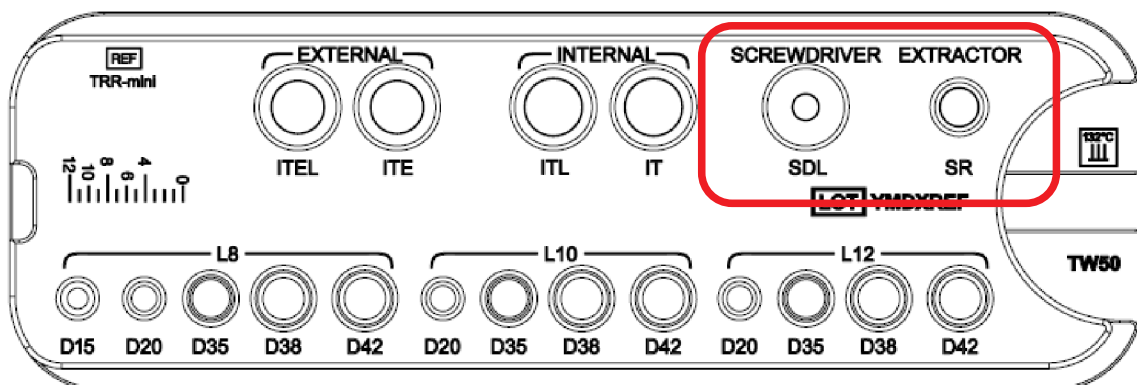
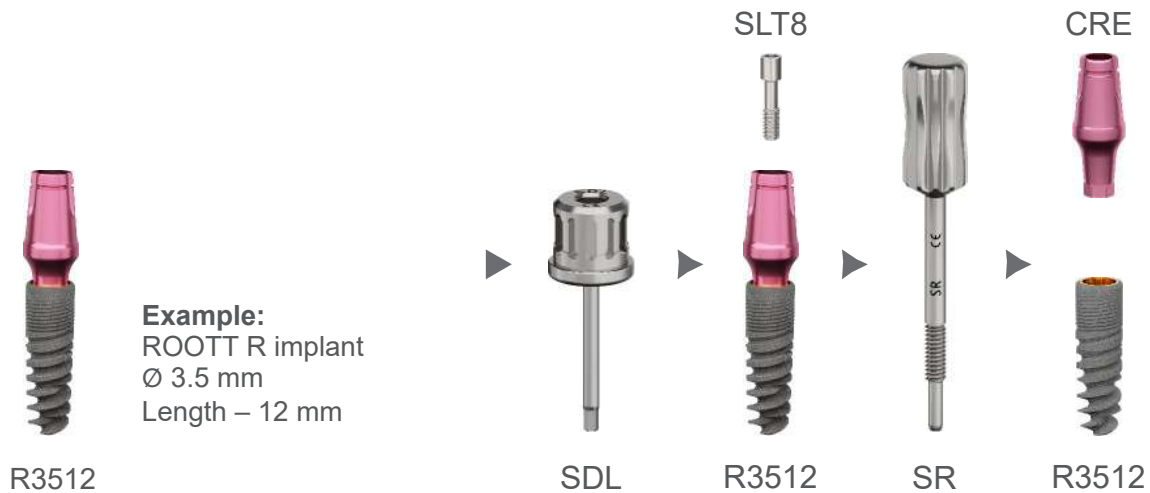
**Step 2** Insert ITE/ITEL into the torque wrench TW50 and tighten the implant by rotating the wrench clockwise. When the set torque is reached, the scale sleeve snaps around the axis in the wrench head. The release can be heard and felt.



Do not continue to use the wrench after the torque is achieved. The wrench or dental components could be damaged.

# ROOTT R

- STEP 1: Preparing cavity**  
 STEP 2: Implant insertion via carrier  
 STEP 3: Removing carrier  
 STEP 4: Implant insertion directly



- Step 1** Take a multipurpose screwdriver SD or SDL for screwing & unscrewing any screw of ROOTT dental implant system. Due to the conical tip of the hex, it is more manageable to take out the screw from the superstructure. Therefore if struggling to remove the screw from the abutment, movement side to side before pulling out is allowed.
- Step 2** Unscrew screw SLT8 from CRE.
- Step 3** Take an abutment extractor SR. Screw SR instead of your screw until part will not be released and remove CRE.

Abutment extractor SR – for easy superstructure removing in case if your conical connection hold tight a part inside of ROOTT R implant.

# ROOTT R

- STEP 1: Preparing cavity**  
 STEP 2: Implant insertion via carrier  
 STEP 3: Removing carrier  
 STEP 4: Implant insertion directly ●



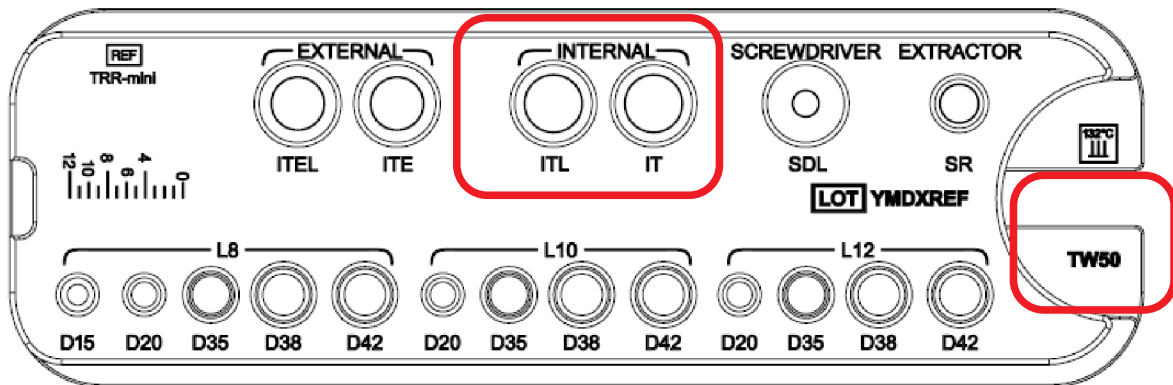
**Example:**  
 ROOTT R implant  
 Ø 3.5 mm  
 Length – 12 mm

R3512



IT

ITL



**Step 1** Take an implant driver for internal platform IT/ITL for inserting ROOTT R implants when the carrier part is removed.

**Step 2** Place IT/ITL to torque wrench TW50 and insert implant to the prepared hole. When the set torque is reached. The scale sleeve snaps around the axis in the wrench head. The release can be heard and felt.



Do not continue to use the wrench after the torque is achieved. The wrench or dental components could be damaged.

For detailed information please read ROOTT R implant placement protocol







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## TRATE

Medical devices under these instructions are in compliance with established in EU regulatory requirements.