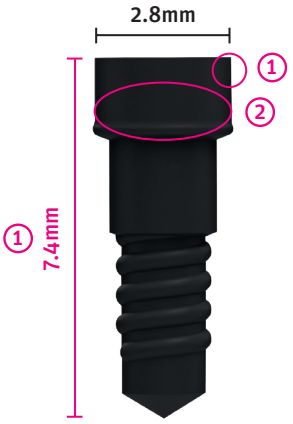
XT VICARBO® SCREWS

RB dia. 4.2mm

WB dia. 5.5mm

Distinguishing feature **RB & WB** VICARBO® screw
① No grooves on screw head and 1mm shorter than provisional screw
② Screw head diameter: 2.8mm



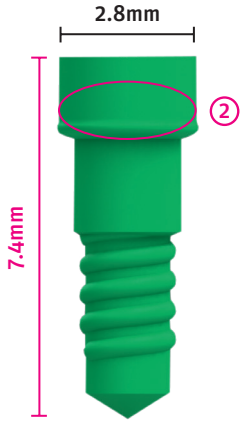
VICARBO® screw RB16550

Matches:
RB & WB abutment straight,
1mm (RB16501 & WB17501)
2mm (RB16502 & WB17502)

RB & WB abutment angular,
1mm (RB16515 & WB17515)

Distinguishing feature:
Length 7.4mm

Tightening torque:
min. 20Ncm
max. 25Ncm



Lab screw RB36553

Matches:
RB & WB Scanbody
(RB36514 & WB37514)
All RB & WB Abutments

Distinguishing feature:
Length: 7.4mm
Green color

Tightening torque: 5Ncm

Material: PEEK

ATTENTION: This screw is not intended for the final supply!

Provisional screw RB36550

Matches:
RB & WB Provisional
(RB36530 & WB37530)

Use for provisional restorations only!

Distinguishing feature:
Length: 8.6mm
Grooves in screw head

Tightening torque: 15Ncm

THE INNOVATIVE, METAL-FREE VICARBO® SCREW

The metal-free innovation: VICARBO® screw

Our objective was to offer a 100% metal-free solution in which not only the implant but also the screw are metal-free. We therefore decided to use the high-performance material VICARBO®.
VICARBO® is a carbon-fiber reinforced PEEK plastic, in which the carbon fibers are aligned with the longitudinal axis of the material. In this way, we can achieve enormous strength. Thanks to the production process developed by ZERAMEX®, the carbon fibers are not damaged during production and they retain their full function. This screw, for which a patent is pending, is unique in dental implantology!

This material has already proved its worth in other medical applications (e.g. orthopedics) and is considered to be the material of the future. Aerospace engineers also use carbon fiber reinforced components because of their enormous strength and low weight.

Technical Specifications

- Modulus of elasticity: >160 GPa.
- Flexural strength: >1,100 MPa.
- Tensile strength: 2,000 MPa.
- Sterilization: Steam sterilization at 134°C, 18 min.

Do I have to use the specified tightening torque?

- The specified tightening torque must be used to compensate the reduced tension through the tight fit and to ensure a reliable, permanent bond.

Why does the VICARBO® screw have a conical shoulder?

- The conical shoulder of the screw was designed so that the fit with the abutment is as tight as possible without generating lateral forces that could damage the abutment later.

What material is the VICARBO® made from? Why is it black?

- The screw is made of PEEK plastic reinforced with longitudinally aligned carbon fibers. The carbon fibers are responsible for the VICARBO® screw's color.

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