

ZZ Screw-Tec-System – Manual

So-called Screw-Tec Bushes can be used to fasten screw-retained secondary parts in advanced bridge design.

Accessories needed:



Cylindrical screw set M1,4 x 6,7 with sleeve | (Item no.: SSAA1001)

Consists of:

- 1 x Cylinder head screw M1,4 x 6,7 (titanium) | (Item no.: SSAA0040)
- 1 x Screw bushing (titanium) | (Item no.: SSAA0020)



Modeling-sleeve long and positioning sleeve for positioning stylus (brass) | (Item no.: SSAA1501)

Consists of:

- 1 x Model cartridge long (brass) | (Item no.: SSAA0060)
- 1 x Core hole bushing (brass) | (Item no.: SSAA0010)



Cylinder head screw M1,4 x 6,2 with sleeve (titanium) | (Item no.: SSAA1101)

Consists of:

- 1 x Cylinder head screw M1,4 x 6,2 (titanium) | (Item no.: SSAA0041)
- 1 x Screw bushing (titanium) | (Item no.: SSAA0020)



Modeling-sleeve short and positioning sleeve for positioning stylus (brass) | (Item no.: SSAA1601)

Consists of:

- 1 x Model cartridge short (brass) | (Item no.: SSAA0061)
- 1 x Core hole bushing (brass) | (Item no.: SSAA0010)

Tools needed:

Screw-Tec-Tools (Item no.: SW999)

Consists of:

- 1 x Screw-tap 2,625 | (Item no.: SW005)
- 1 x Positioning stylus for screw-tap 2,625 | (Item no.: SW007)
- 1 x Bush-driver | (Item no.: SW008)
- 1 x Hexagonal wrench short | (Item no.: SW010)
- 1 x Milling Bur 2W30 | (Item no.: FR611)
- 1 x Stylus 2W3 | (Item no.: TS611)



Further styli and milling burs (not included in the set):

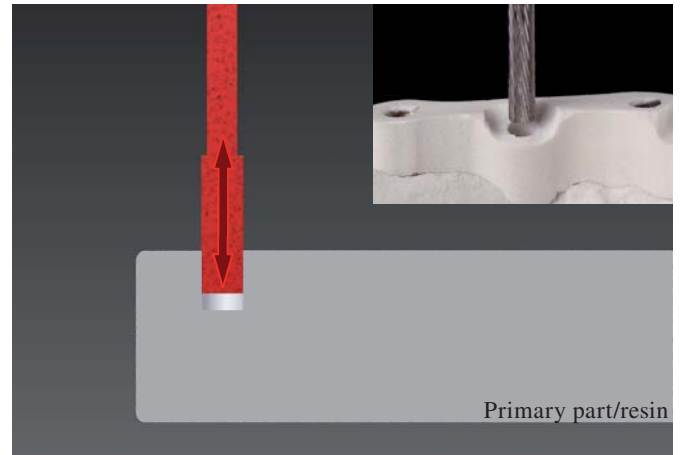
- 1 x Abutment milling bur 2A | (Item no.: FR211)
- 1 x Abutment stylus 2A | (Item no.: TS211)



ZZ SCREW-TEC-SYSTEM

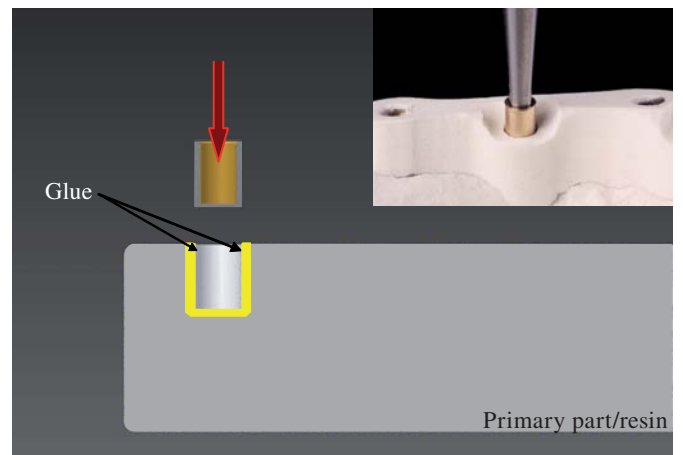
STEP 1

Drill hole position inside the primary part (resin) for the metal guide sleeve (*Item no.: SSAA0010*) is case dependent. The drill hole diameter should be slightly larger than the sleeve's outer diameter: 2.5 mm. Sleeve length: 3.5 mm



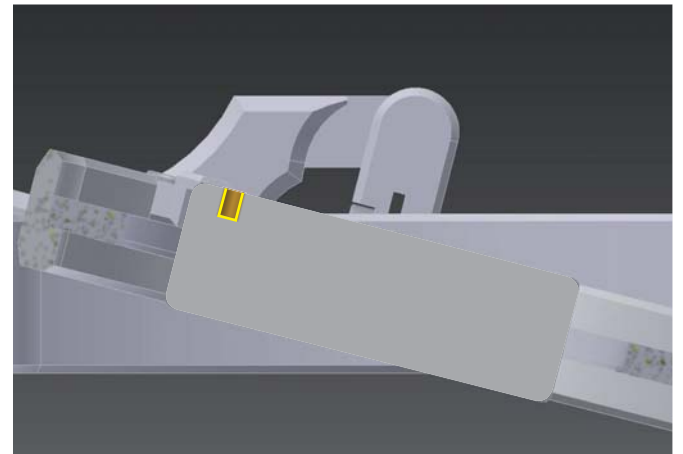
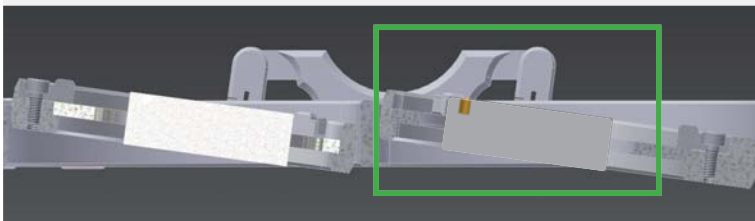
STEP 2

Align guide sleeve angle according to ideal milling axis. Lock with super glue or resin. Positioning stylus (*Item no.: SW007*) may be used to align guide sleeve.



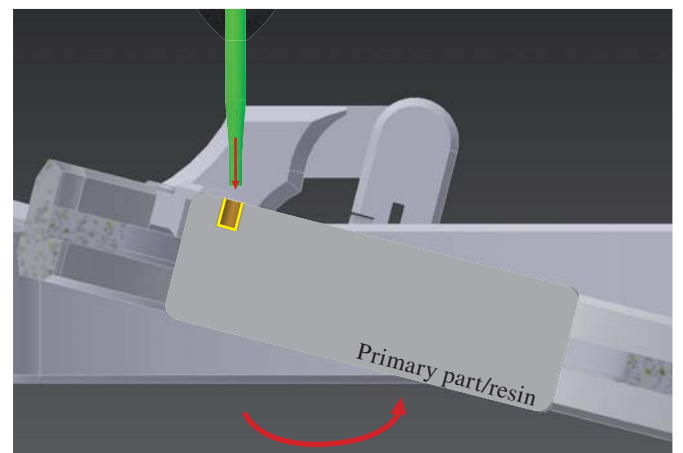
STEP 3

Fix mock-up frame work and zirconia blank into milling unit.



STEP 4

Fix the positioning stylus (*Item no.: SW007*) into the stylus handpiece and adjust the model with the 5th axis of the milling unit so that the positioning sleeve is parallel to the positioning stylus (positioning stylus must not cant during insertion). After that fix the position of the 5th axis.

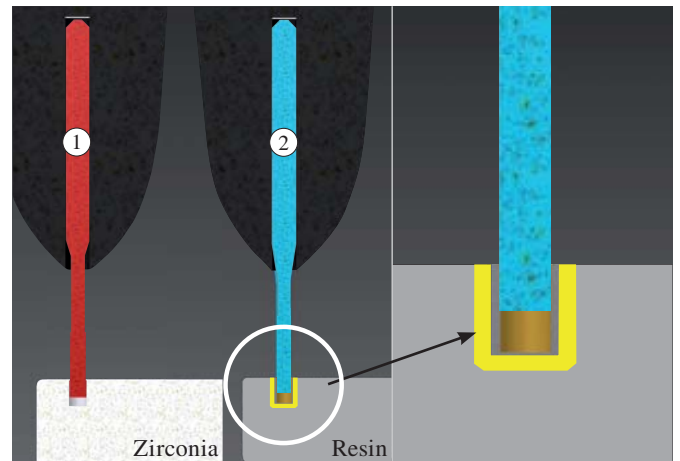


ZZ SCREW-TEC-SYSTEM

STEP 5

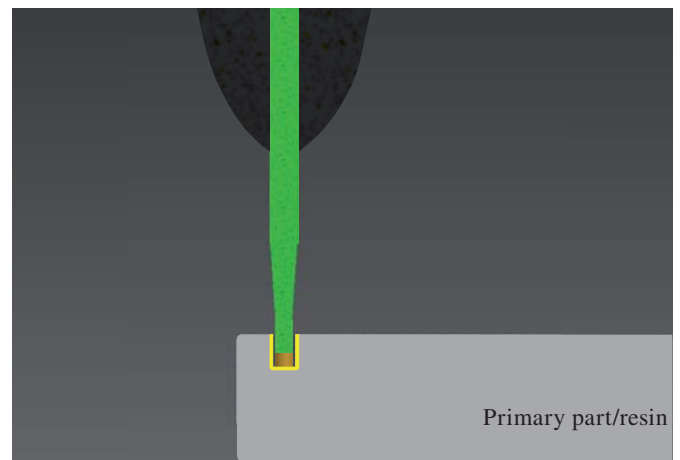
Use abutment stylus 2A and milling bur 2A to mill precise hole into zirconia.

1. Milling bur 2A (*Item no.: FR211*)
2. Stylus 2A (*Item no.: TS211*)



STEP 6

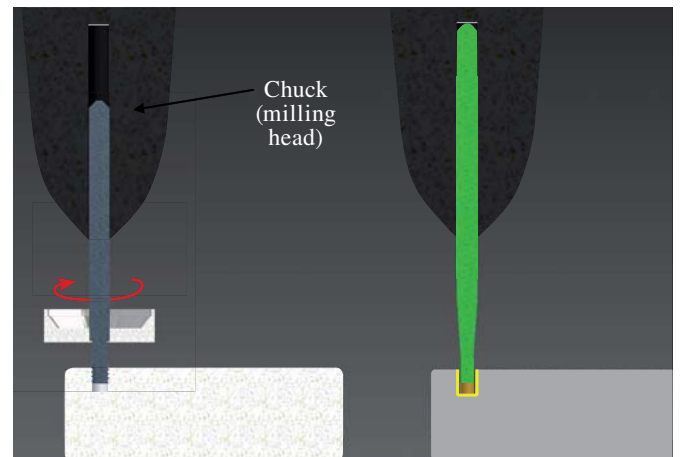
Insert positioning stylus (*Item no.: SW007*) into stylus chuck of the milling unit prior to tapping. For tapping slide positioning stylus into guide sleeve (slight friction) to aid process.



STEP 7

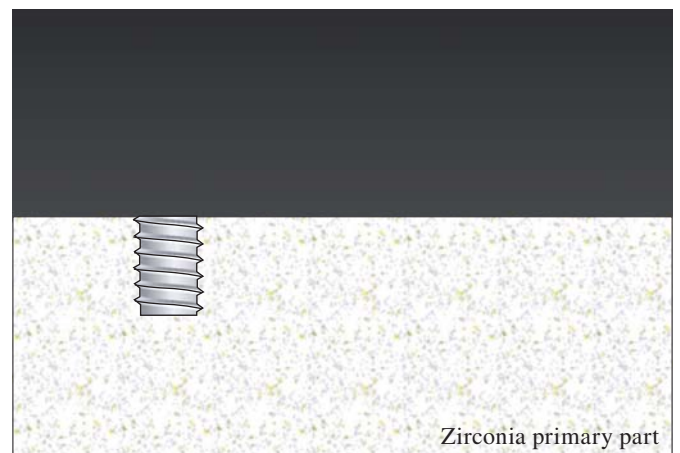
Insert tapping tool (*Item no.: SW005*) into unlocked milling head chuck. Gently finger turn tapping tool clockwise into the pre-drilled hole – apply slight pressure only!

NOTE: Tap only 1-2 clockwise turns at one time then reverse. Blow out zirconia dust with air gun – avoid dust collection in thread. Repeat process until tapping tool touches the drill hole floor.



STEP 8

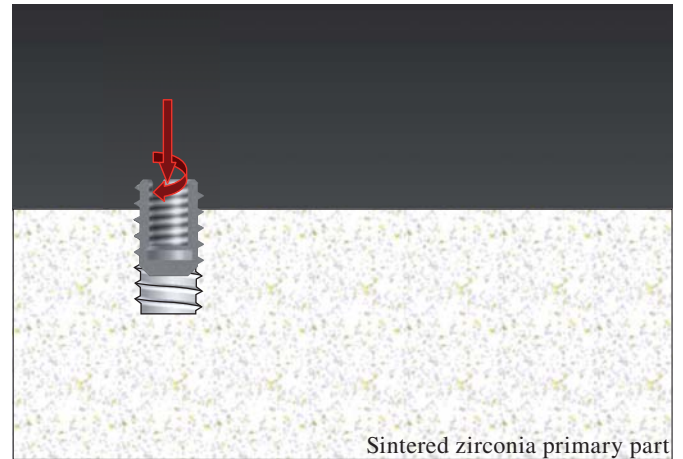
Upon completion remove tapping tool in anti-clockwise motion. Thoroughly clear dust out of thread with air gun – then sinter.



ZZ SCREW-TEC-SYSTEM

STEP 9

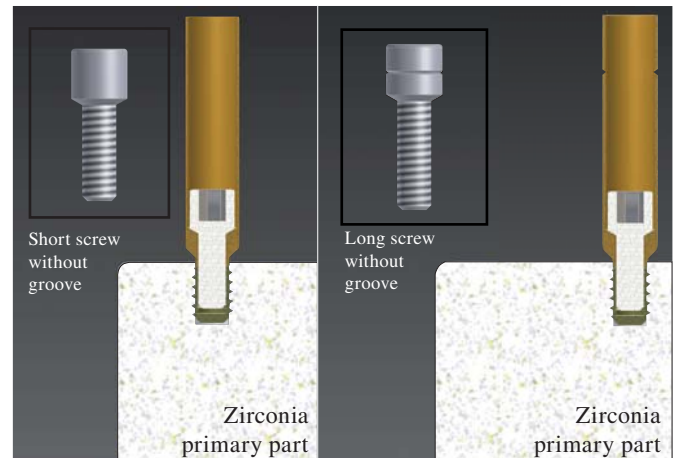
Insert titanium bush (*Item no.: SSAA0020*) with bush-driver (*Item no.: SW008*) and lock with mouth resistant glue.



STEP 10

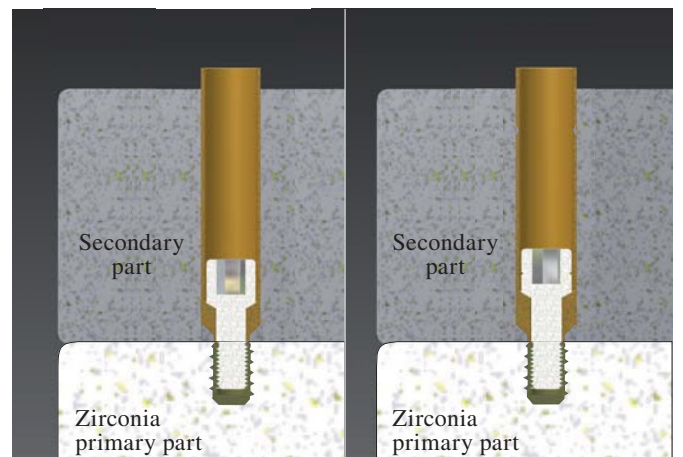
There is a choice of two different extension tubes which can be incorporated into the secondary part:

1. Extension tube short (*Item no.: SSAA0061*) in combination with cylindrical screw M1,4 x 6,2 (*Item no.: SSAA0041*)
2. Extension tube long (*Item no.: SSAA0060*) in combination with cylindrical screw M1,4 x 6,7 (*Item no.: SSAA0040*)



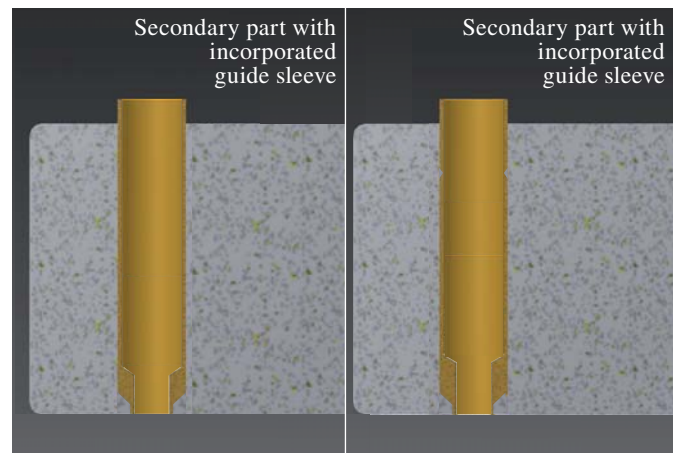
STEP 11

Incorporate extension tubes into secondary part (resin).



STEP 12

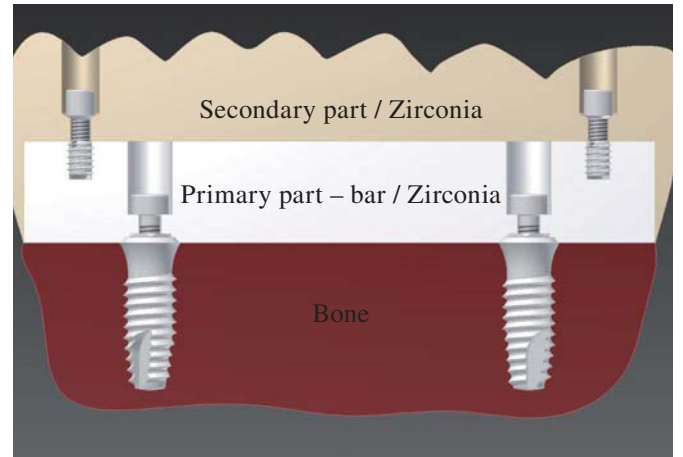
Milling of the secondary part follows. Mill the screw access holes (along extension tubes) and screw head bevel seats with milling bur 2W30 (*Item no.: FR611*) using stylus 2W30 (*Item no.: TS611*)



ZZ SCREW-TEC-SYSTEM

RESULT

Completed screw-retained bridge.



Jörg Iowa - ZZ Screw-Tec-System

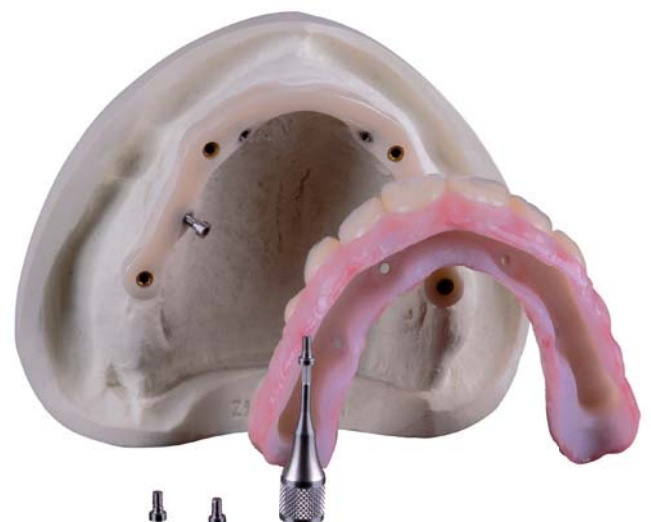


Any further questions? Contact our sales- or technical department – we are pleased to help you!

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