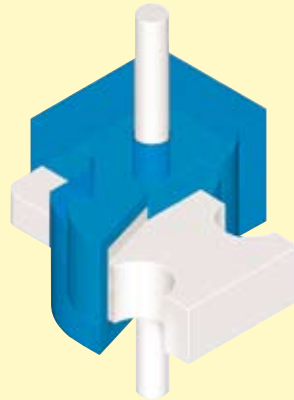


Swing Bolt System src

Ceramic placeholder simplifies the manufacture of bolts using a one-off NE alloy casting process

Bolt anchor made of wax

- only one alloy for anchor and crown is required, thus reducing the number of metals in the mouth.
- integrated thrust distributor offers improved aesthetics and facilitates manufacture



Bolt blade with bolt shaft made of ceramic

- pre-modeled bolt case in wax reduces production time
- simple integration in the model casting process leading to less work involved
- after casting simply blast off the placeholder
- precise matching surfaces for metal bolt blade and bolt shaft meaning less reworking required.



Bolt spring

- a spring system proven for over 18 years retains the bolt blade during opening and closing thus improving security for the patient.



Bolt blade made of titanium

- low time requirement for fitting due to dimensional matching by means of the ceramic placeholder
- prefabricated precision bolt blade eliminates casting operation
- streamlined processing by using precisely matching finished components

Bolt shaft

- made from stainless steel and thus durable in mouth

High precision moldings are available that radically reduce the work involved and facilitate the production of an individual bolt. The ceramic moldings are produced according to the bolt blade and the bolt shaft so that these match exactly. The bolt case is cast as a model together with the model mold frame in one piece so that soldering and gluing are eliminated. This reduces the number of alloys in the mouth and the costs for individual bolt processing.

Swing bolt processing using model casting technology, precise fitting and time saving.

Ceramic castings simplify the production of swing bolt parts



1 Wax the bolt anchor with the parallel retainer to the primary construction according to the insertion direction. The integrated thrust distributor in the case of a bridge construction can be wax filled.



2 After casting prepare the model for duplication. Block out the closure of the bolt anchor so that a visible edge of approx. 0.5mm remains visible after duplication.



3 On the substrate mass model the bolt anchor is clearly visible. The ceramic casting can be properly positioned in the closure.



4 Grind the ceramic casting with a disc grinder so that it fits exactly into the closure of the bolt anchor.



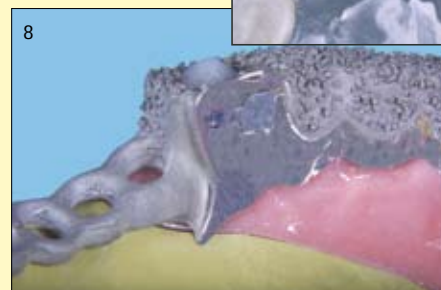
5 The wax surround must be exactly flush with the bolt anchor but nevertheless firmly fixed in the bolt anchor cap.



6 Fix the ceramic molding with the anchor and apply wax.



7 Complete modeling according the situation and integrate the ceramic molding. Permit the shaft to protrude at both ends of the model.



8 Fit the titanium bolt blade into the blasted out case. Insert the bolt spring behind the titanium bolt blade and fix with the shaft.

Swing Bolt System src



Bolt Blade src
Made of ceramic
2 pieces
Order No. 430 07385



Swing Bolt Titanium
2 pieces
Order No. 430 T735 7



Bolt Anchor Right
4 pieces
Order No. 430 0735 9

Assortment
Swing Bolt System src left and right



Abb. 1:1

Bolt Spring
10 pieces
Order No. 430 0334 0



Swing Bolt Titanium
2 pieces
Order No. 430 T735 7



Parallel Retainer universal
1 piece
Order No. 360 0115 1



Steel Pins
20 pieces
Order No. 430 0293 0

1 Bolt Anchor in wax left
1 Bolt Anchor in wax right
2 Swing Bolts titanium
2 Bolt Blades src made of ceramic
2 Bolt Springs
2 Steel Pins
Order No. 430 0738 8