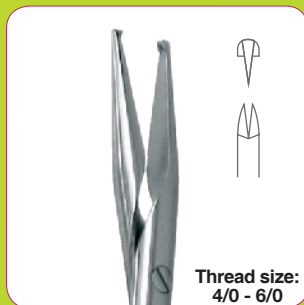


## ZEPP Double-Action Instruments



Thread size:  
4/0 - 6/0

**22.830.17 - Micro tweezers**  
transmitted, ZEPP-Line, 17,5 cm,  
1 x 2 teeth, flat suture area 10  
mm, jaw width 0.6 mm



Thread size:  
4/0 - 6/0

**41.016.17 - Micro needle holder**  
transmitted, ZEPP-Line, 17,5 cm,  
Tungsten Carbide, serrated,  
jaw width 0.6 mm

22.830.17

41.016.17

### ZEPP Double-Action Instruments

The ZEPP double-Action instruments consist of a micro needle holder and a micro tweezers.

The instruments were modified technically in the area of the lock. The parallel lock known from standard needle holders has been replaced with a revolved lock. This avoids that the suture material gets caught up on the needle holder.

The double transmission of the instruments allows a very precise development of energy and pressure at the working tip. A steeper opening angle of the jaw pieces is possible because of the shortened lever; this makes work easier in areas which are difficult to access.

The patented shingled handle assures best tactile working. The needle holder has a carbide insert (Tungsten Carbide, a composite, has high resistance and pressure abrasion and also a high hardness compared to conventional materials) Best functionality is assured by the optimal spring that allow a sensitive closing and opening of the instrument and a stable energy effort during the usage.

The micro surgical tweezers have 1 x 2 micro teeth, these allows a secure and controlled grip of the soft tissue.

# NEWS

02/09



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## ZEPF Double-Action Instruments

### ZEPF Double-Action Instruments

#### Advantages of the Double-Action instruments

- ▶ Double transmission for tactile handling.
- ▶ Made of special stainless steel.
- ▶ Needle holder with carbide inserts, which is laid out for long life.
- ▶ The rotation of the instruments while suturation is simplified because of the round form unlike conventional flat micro needle holders.
- ▶ The suture cannot get caught up because of the revolved design.

Better cleaning possibility through new construction elements.



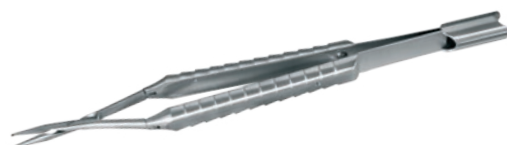
All attached parts are exchangeable. That's the basis for long-term value with minimal costs.



The double transmission allows a secure and tactile leading of the needle with minimal energy effort.



Latest CNC- manufacturing methods allow a revolved lock technique. The suture cannot get caught up any more.

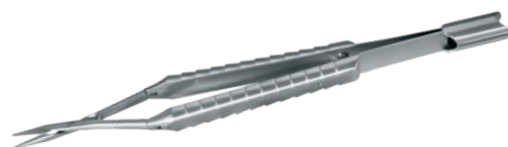


#### Article indication

**22.830.17** - Double-Action Micro tweezers, transmitted, ZEPF-Line, 17,5 cm, 1 x 2 teeth, flat suture area 10 mm, jaw width 0.6 mm

#### Order quantity

[     ]



**41.016.17** - Double-Action Micro needle holder, transmitted, ZEPF-Line, 17,5 cm, Tungsten Carbide, serrated, jaw width 0.6 mm

[     ]

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