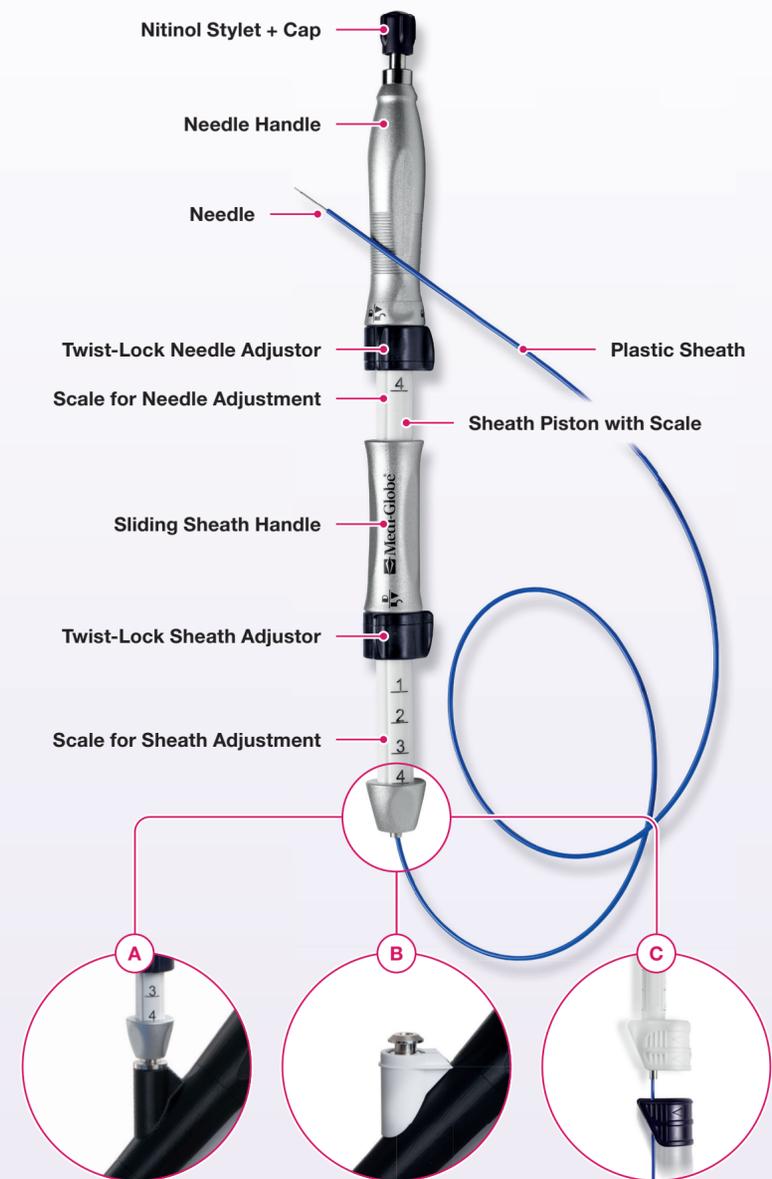


# SonoTip TopGain® EBUS – Guidance for Application

## Product Overview



**Pentax Bronchoscopes:** Slowly insert the instrument into the working channel and lock it to the working channel with the **Luer-Lock Connector**.

**Fuji Bronchoscopes:** Before using the needle, attach the enclosed adapter. Then insert the needle and fix it at the working channel with the **Click-Lock adapter**. Close it in the direction of the arrow.

**Olympus Bronchoscopes: BF-UC190F & BF-UC180F**  
**190F:** Insert needle with **white Click-Lock adapter** and close in direction of the arrow  
**180F:** Attach **blue adapter** onto Click-Lock adapter before connecting to the working channel

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## Application Steps



Before introducing the SonoTip TopGain® needle please check the instrument for intactness and safe functioning. Make sure that both Twist-Lock settings are locked in the safety position.  
 Attention: Set this position before each insertion into the working channel, even when repeating the puncture!



Insert the SonoTip TopGain® needle into the respective bronchoscope (see product overview on the left).  
**A** Pentax  
**B** Fuji  
**C** Olympus



Adjust the sheath length. To do this, unlock the lower Twist-Lock (lock/unlock symbol) and slide the handle down until the desired position for the tip of the sheath is reached. Then fix the setting.



Unlock the Twist-Lock for puncture depth adjustment and slowly move the needle handle to guide the needle out of the plastic tube.



Round tip stylet: As soon as the needle has been moved out of the sheath, loosen the stylet from the proximal Luer-Lock of the needle handle and pull it back about 5 mm.



Insert the needle into the target tissue. The maximum needle projection can be preset with the upper Twist-Lock for puncture depth adjustment. Now stab into the target structure in a controlled manner.



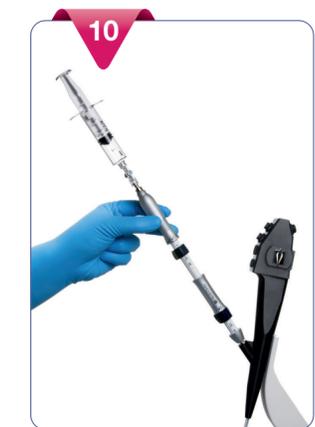
When the needle has completely penetrated the target structure, close the stylet again. Then, remove the stylet completely from the biopsy needle.



Connect the prepared syringe (with negative pressure) with the Luer-Lock to the proximal end of the biopsy needle ...



... and turn the stopcock to its „open“ position. The desired tissue sample is sucked into the needle by the vacuum inside the syringe.



Use the needle handle to move the needle back and forth within the biopsy site. Before the puncture ends, close the stopcock, pull the needle handle back as far as it will go and fix it in the safety position. Then remove the SonoTip® TopGain needle.

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