



# Multi-Oblique Guides and Accessories

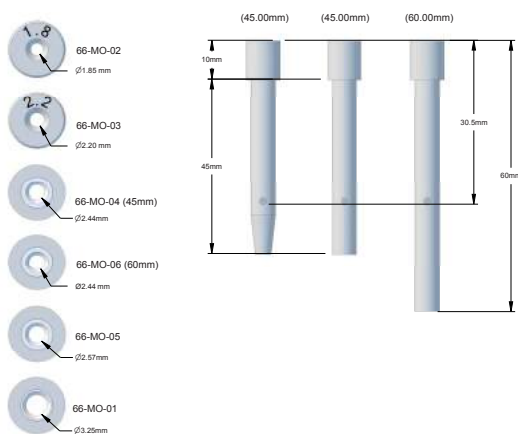
The Multi-Oblique Guides and Accessories are a collection of tool guides, application guides, depth control devices and depth stops that are used to support a wide variety of stereotactic devices and procedures when used with multi-oblique platforms. Each multi-oblique platform is provided with a target depth sheet that shows the distance from the top of each hub, to the target. This distance is used to set distances for other devices that will be used with these components.

This document provides information on each individual component only. Your FHC representative can provide additional information on what combination of components are required to work your selected devices and your particular workflow.

## Tool Guides (66-MO-0x)

Tool guides are used to position various diameter tools precisely along the planned trajectory. There are five different internal diameters and two lengths available to work with many devices.

### Specifications:



**Material:** 304 stainless steel body, Rulon 641 bushing

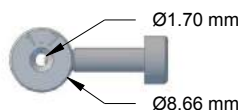
**Required for Use:** Multi-Oblique sterilization tray and tools (66-ST-MO)

**Operation overview:** Tool guide is inserted in the platform hub and secured using a simple twist-to-lock mechanism. Follow manufacturer's instructions to insert and operate the externally supplied device through the guide along the planned trajectory.

## Visualase® Alignment Rod Guide (66-MO-20)

The Visualase® Alignment Rod Guide is a special purpose guide used to support placement of the Medtronic Visualase skull bolt used in the Visualase laser ablation procedure.

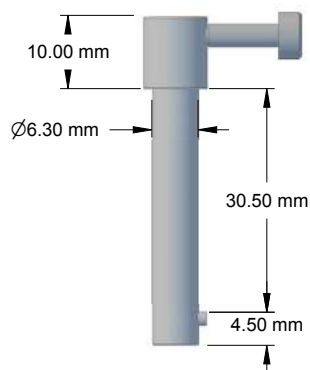
### Specifications:



**Material:** 304 stainless steel

**Required for use:** Multi-Oblique sterilization tray and tools (66-MO-ST)

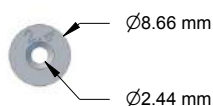
**Operation overview:** Once a skull hole is drilled using the appropriate tool guide, the Visualase Alignment Rod Guide is inserted into the platform hub using a simple twist-to-lock mechanism. The alignment rod is placed through the guide, through the skull bolt and secured using the locking screw. The bolt is then screwed into the skull using the alignment rod to keep it aligned to the planned trajectory. Once the skull bolt is placed, the alignment rod is used to determine the distance to the top of the bolt. At this point the platform is removed and the Visualase procedure is completed.



## Ad-Tech Bolt Guide (66-MO-21)

The Ad-Tech bolt guide provides additional 20mm of clearance under the platform for placement of Ad-Tech skull bolts along the planned trajectory.

### Specifications:

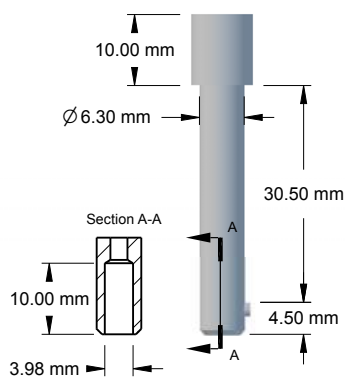


**Material:** 304 stainless steel

**Required for use:** Multi-Oblique sterilization tray and tools (66-MO-ST)

**Operation overview:** Once a skull hole is drilled using the 2.4mm tool guide, the selected Ad-Tech bolt is placed into the hole in the skull and the Ad-Tech bolt guide is inserted into the platform hub and secured using a simple twist-to-lock mechanism. The Ad-Tech wrench is then placed through the guide, into the bolt, and is then screwed into the skull.

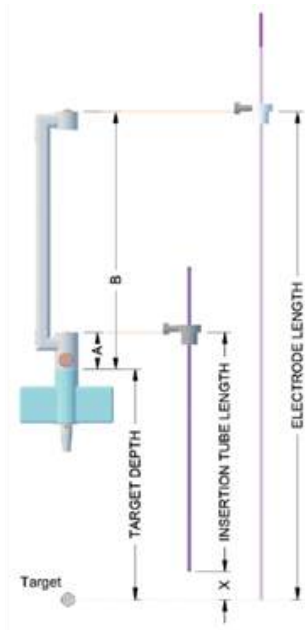
Note – Ad-Tech leads are placed at target using the multi-oblique depth stop (66-DS-MO), which eliminates the need to determine the target distance to the top of each bolt.



## Dual Depth Stop Holder (66-DH-40)

The dual depth stop holder is used to place a cannula and depth electrode along a trajectory of the multi-oblique platform.

### Specifications:



### Material:

Holder– Duraform PA Nylon; Thumbknobs – PEEK

Lower depth stop offset (A):  $20.0 \pm 0.1$ mm

Upper depth stop offset (B):  $140 \pm 0.1$ mm

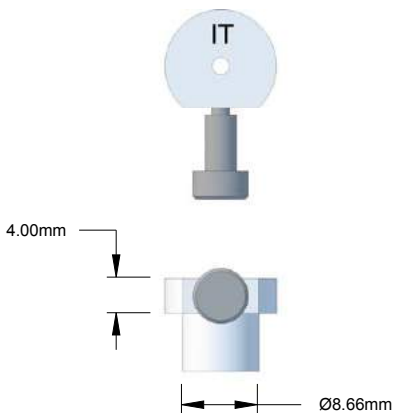
**Required for use:** 1.8mm tool guide (66-MO-02), Insertion tube depth stop (66-DS-IT), Lead depth stop (66-AG-DS(1.8)), Insertion tube (66-IT(AO6)), Multi-Oblique sterilization tray and tools (66-MO-ST)

**Operation overview:** After the skull hole is drilled using the appropriate tool guide, remove guide and insert and lock the 1.8mm tool guide into the platform hub. Secure the dual depth stop holder to the top of the 1.8mm tool guide. Place the insertion tube and stylet, with insertion tube depth stop, through the guide and secure into the lower stop holder. Place the depth electrode, with lead depth stop, through the insertion tube and secure into the upper stop. Once the depth electrode is placed, the insertion tube is raised and the depth electrode is secured.

## Insertion Tube Depth Stop (66-DS-IT)

The insertion tube depth stop is used to set depth of insertion tube required for each trajectory hub when placed in the dual depth stop holder.

### Specifications:



### Material:

Body - Radel; Thumbknob - PEEK tipped stainless steel

ID: 1.39mm

Collar height:  $4 \pm 0.13$ mm

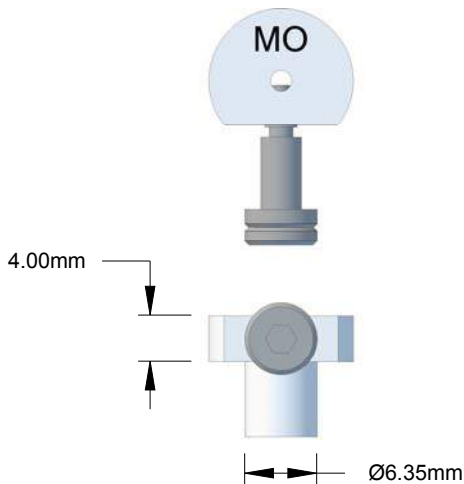
**Required for use:** Dual depth stop holder (66-DS-IT), Insertion tube (66-IT(AO6)) or similar, Multi-oblique sterilization tray and tools (66-MO-ST)

**Operation overview:** Refer to dual depth stop holder for operational overview.

## Multi-Oblique Depth Stop (66-DS-MO)

The multi-oblique depth stop is used to set target depth of a depth electrode using the hub of the multi-oblique platform, while it is secured using the vendor supplied skull bolt.

### Specifications:



**Material:** Body - Radel; Thumbknob - PEEK tipped stainless steel

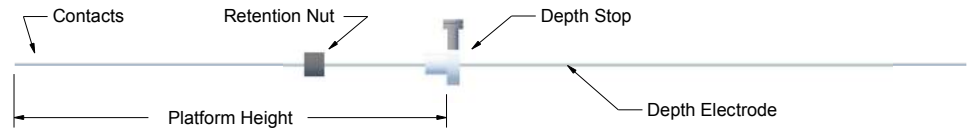
### Support lead diameter:

ID (open) – a 1.85mm

ID (screw fully tightened) – 0.46mm

**Required for use:** Multi-Oblique sterilization tray and tools (66-MO-ST)

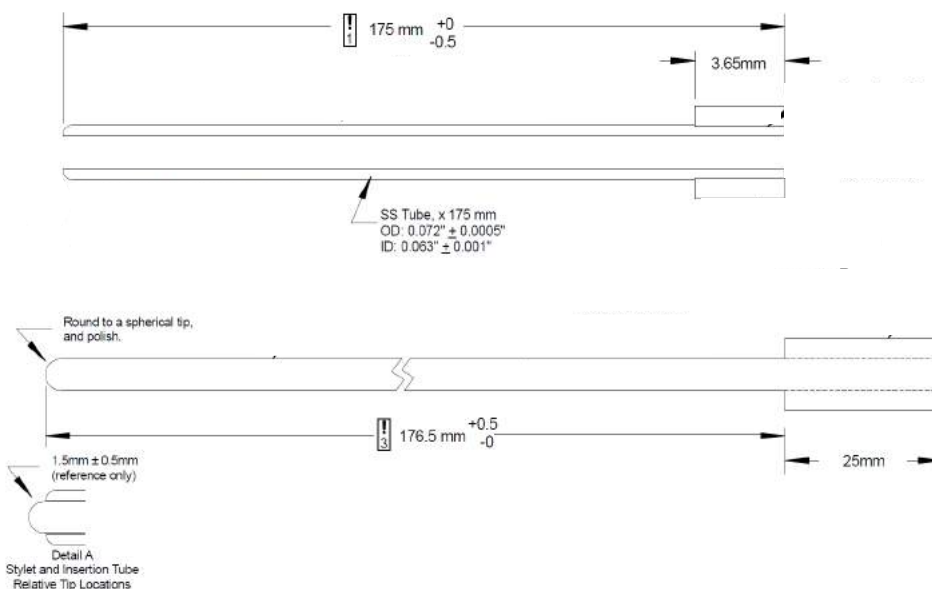
**Operation overview:** Place the multi-oblique depth stop on the depth electrode to set the distance to target from the top of the multi-oblique hub (platform height). Place retention nut on lead and insert through hub into bolt until depth stop rests



## 175mm Insertion Tube (66-IT(AO10))

The 175 mm insertion tube provides additional guidance for placing depth electrodes accurately along planned trajectory.

### Specifications:



**Material:** stainless steel

### Maximum depth electrode diameter:

1.5mm (including connectors)

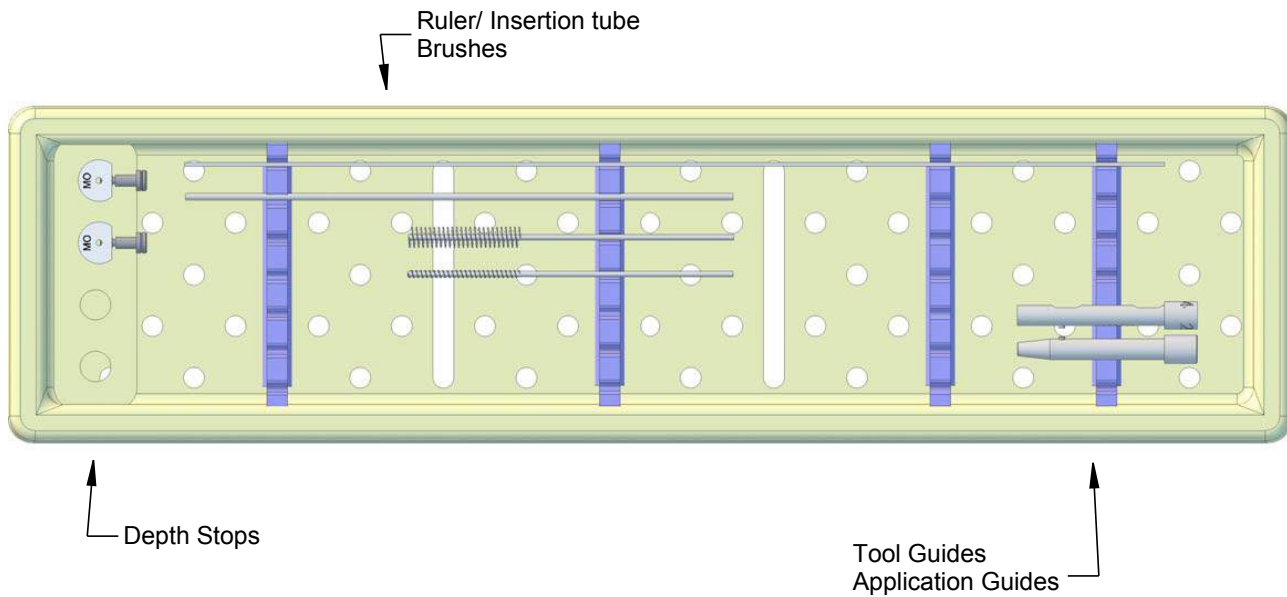
**Required for use:** 1.8mm tool guide (66-MO-02), Dual depth stop holder (66-DS-IT), Insertion tube depth stop (66-DS-IT), Multi-oblique sterilization tray and tools (66-MO-ST)

**Operation overview:** Refer to dual depth stop holder for operational overview.

## Multi-Oblique Sterilization Tray and Tools (66-ST-MO)

The multi-oblique sterilization tray and tools provide a container to sterilize the tools that come with the tray, along with all other multi-oblique tools. A 30cm ruler and two cleaning brushes are provided.

Specifications:



**Material:** Case base - Radel with Silicone inserts, Case lid: Ultem with stainless steel clamps (not shown), Ruler: Stainless steel - 30 cm range with 0.5mm markings, Brushes: Stainless steel stem and nylon bristles

**Operation overview:** Place tools in tray and secure lid. Sterilize using protocol shown in the microTargeting™ Multi-Oblique Accessories DFU (L011-84).

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