

## WillCo-dish®KIT Assembly Instructions

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The **WillCo-dish®KIT Glass Bottom dishes** are composed of several components, each of the highest quality of their kind. Below please find a summary and description of these components. We invite you to read the instructions carefully, to fully enjoy assembling the **WillCo-dish®KIT**.

### Components

1. Dish (Polystyrene surrounds and -lids, clean room molded, 500 units each).
2. Pressure sensitive **Double Sided [Medical] Adhesive rings**, **FDA** approved (500 units). This DSA-Adhesive reaches its maximum bonding quality after 4 hours.
3. Glass coverslips: German glass, 0.17 mm. - # 1.5 coverslips (500 units).
4. One pair of tweezers, to protect fingers from these thin, razor-sharp glass coverslips.
5. Optional: Round, anodized, aluminum “Assembly Devices” for a quick, accurate and safe positioning and assembly of the glass coverslip and the adhesive ring.

### Caution

Before assembling the **WillCo-dishes**, it is of our great concern to make you aware of the fact that the **glass coverslips** are thin, 0.17 mm and **extremely sharp**. We have added a pair of **tweezers** to the **WillCo-dish®KIT to manipulate the glass**, to prevent the glass coverslips from cutting yourself.

**Note:** We strongly advise to always use **protective gloves** and always use a pair of **tweezers** to manipulate the glass coverslips. Never press on the glass or bend the glass using your fingers. This also prevents the glass from getting **fingerprints** all over. This may cause the high class DSA-adhesive not to bond at its maximum capacity.

### Assembly - Step 1

1. Put in place on a table, all the necessary components, before assembling.
2. Take the white easy-peel adhesive liner/carrier off from the long liner-strip.
3. Position the opening in the white adhesive liner/carrier, **adhesive facing up**, over the round center notch on the “**Adhesive-Holder**”, to rest on the base.
4. Position the opening in the bottom of the dish (right type!) over the same notch in the center of the Adhesive-Holder and press the dish down, firmly. (You may want to hold the Holder including the dish in your hands, to be in the position to press and turn the dish around the notch, more firmly).
5. Take the dish from the Adhesive-Holder and **check** for small **air-pockets**. If necessary, finish the primary bonding by

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closing any air-pockets by using only a little pressure with the round back-end of the tweezers, some other round device, or use just one of your nails (Carefully, not to break them and if so, do this with the adhesive ring only!).

USING THE TWEEZERS, POSITION THE GLASS COVERSIP WITHIN THE OUTER WALL OF THE GLASS-HOLDER AND CAREFULLY SHUFFLE THE HOLDER BETWEEN YOUR FINGERTIPS, TO MAKE THE GLASS COVERSIP SLIDE GENTLY INTO PLACE IN THE CENTER OF THE CHAMBER.

## Assembly - Step 2

**Caution:** Do not use your fingers or fingernails, the glass is razor-sharp! Also do not put pressure on the glass, outside the adhesive area or in the adhesive opening in the middle; there the glass will respectively break off from the edge of the cover slip or it will shatter in the center. We recommend to wear protective glasses, to protect your eyes. **Note:** It is in the character of the pressure sensitive DSA adhesive, to continue improving the bonding, which will be at its maximum quality after four (4) hours.

Disclaimer: WillCo Wells BV takes no responsibility what so ever for any kind of injury coming from the glass coverslips, directly or indirectly.

6. Using the tweezers, carefully, you have already (5) positioned the glass cover slip inside the outer wall of the Glass-Holder. Positioning the glass cover slip within the tiny center wall in the chamber, is very easy, by shuddering the Glass-Holder from side to side between the thumb and index - or your middle finger. The coverslip will then slide into place inside the tiny wall enclosing the glass chamber.
7. ONLY NOW, TAKE OFF THE WHITE ADHESIVE LINER/CARRIER FROM THE BOTTOM OF THE DISH, BY PULLING OF THE "EASY PEEL" SLIP.  
**Note:** In case the adhesive ring does not release from the long liner-strip, then place the liner-strip over the Adhesive-Holder, adhesive ring face up.
8. Position the dish, adhesive-/bottom face down, in to the center of the Glass-Holder and press firmly. This will create a strong bond between the pressure sensitive DSA adhesive and the glass cover slip.
9. Take the dish from the Glass-Holder. You may even want to pick-up the Glass-Holder from the table and press again, while holding the Glass-Holder in your hand firmly and press on and turn the dish around with the other hand. Again, check the bonding along the whole adhesive area and again look for air-pockets. It is natural to have these air-pockets, which are easily removed by putting little pressure on the glass, using the flat back-end of the tweezers.
10. If appropriate, it may be necessary to thoroughly clean the glass bottom dish or dishes you have just assembled. Top quality bonding takes four (4) hours. Sterilize, using EtO, gamma irradiation or UV light, only. Do not autoclave!

We trust you have enjoyed assembling the **WillCo-dish®KIT Glass bottom dishes** yourself (you do not need to cut a hole in the bottom of an existing plastic dish anymore). Please contact us [will@willcowells.com](mailto:will@willcowells.com), if you think that any component of the KIT needs just any kind of alteration, to improve speed, the accuracy or the safety while assembling the **WillCo-dish®KIT "do-it-yourself" glass bottom dishes**.