

## Hinge for Fast Micromanipulator Opening

Hinge for Transferman 4m/4r. Enables faster replacement of dishes or micromanipulation pipettes. Unlike the original hinge which enables the motor movement only in the horizontal direction, The LifeM Hinge/Swivel allows partially vertical movement of the X-motor opening. The dish with a high rim can be replaced easier and faster.

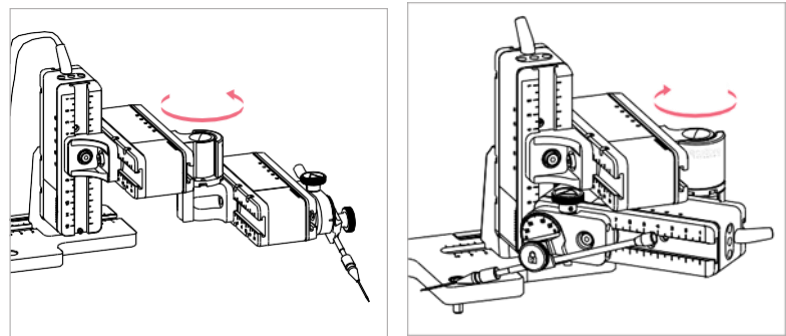
The LifeM setup is in fact the same Transferman 4r micromanipulátor with an advanced opening swivel, an improvement that makes the ICSI operation faster and more safe.

The difference is that the original Calibre swivel moves/opens the X-motor only in the horizontal direction.

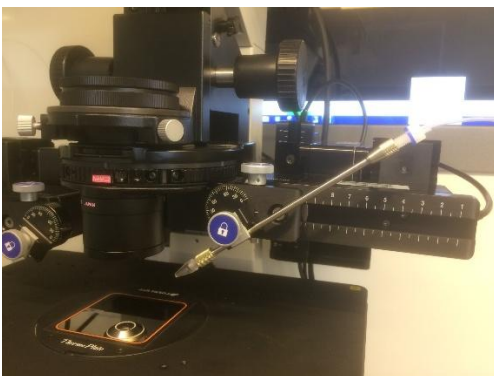
(see user manual page 70)

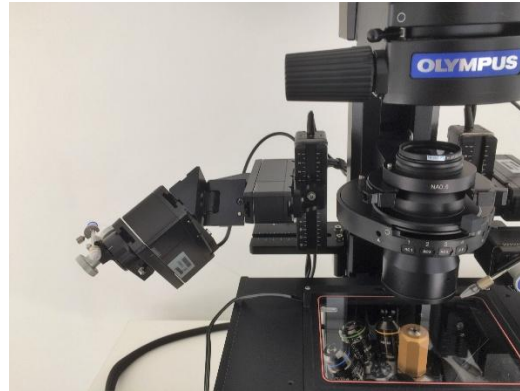
That means that before dish replacement the operator has

to first move the mikromanipulátor to the Home position and only then open the arms of the micromanipulátor.



With Life M Hinge the opening is similar to what was in the Eppendorf NK2 model – means half vertical and very fast and easy avoiding the unnecessary step of moving the mikromanipulátor to the Home Position. See the pictures below:





The Hinge is manufactured in Czech Republic and mounting is different from the mounting of the Calibre Horizontal Swivel. Life M Hinge / Swivel does not allow 10 degrees injection and neither other Research Cell Modification applications.

#### Summary:

For researchers where the user needs to perform very different applications for different samples and species and needs to change the setting often the original (universal) Calibre Swivel is no doubt the best solution as it allows easier and fast ersetting of the device for veryx different biological applications.

For IVF users where the application is only IVF (ICSI and Biopsy and may be also assisted hatching) the LifeM swivel is more conveniant as it allows faster and easier routine IVF operations. IN IVF the setting of the device stays unchanged the whole life time of the device.