

Trakjector™

Micromanipulators



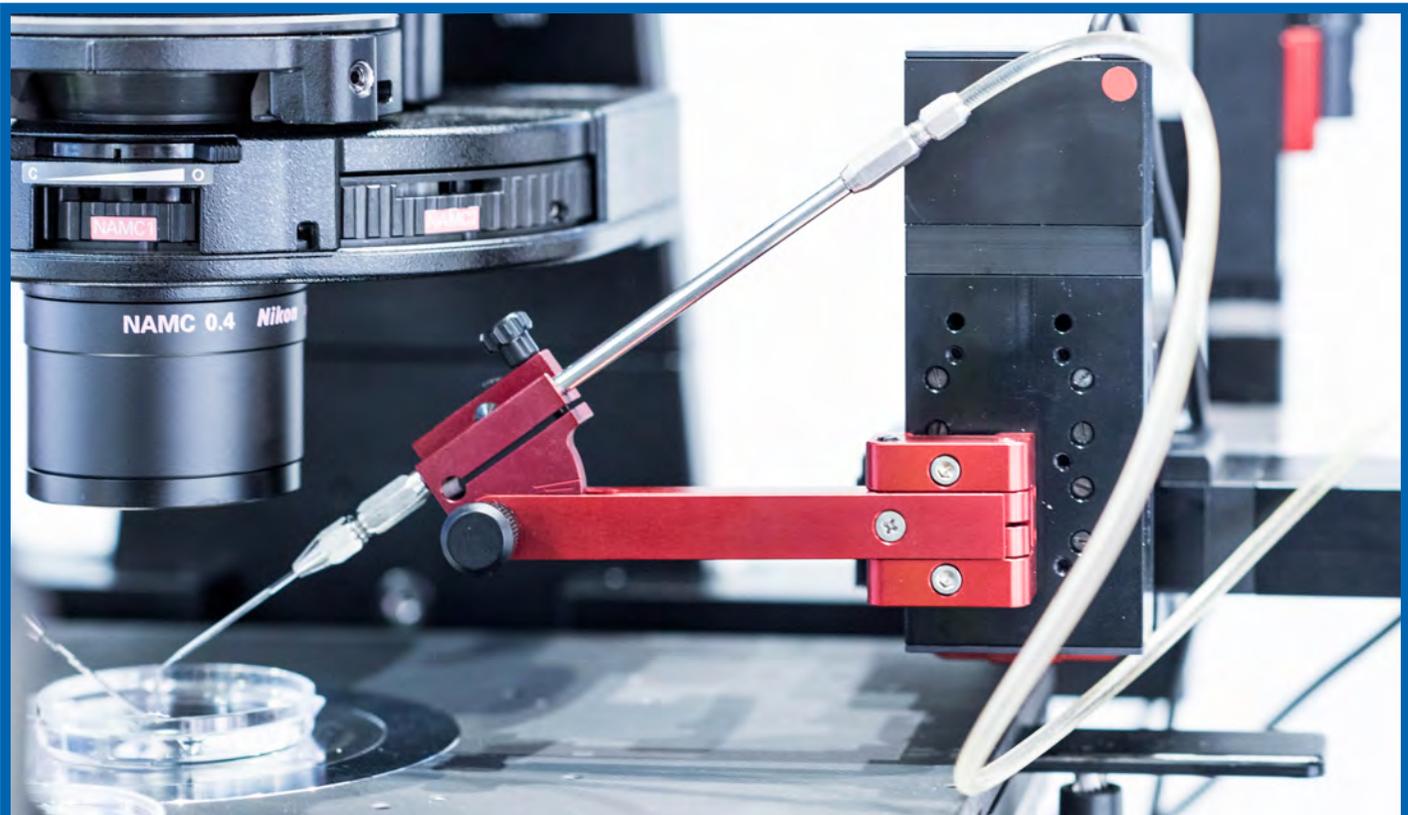
Trakjector™

Micromanipulators

The TrakJector, newly developed micromanipulators from Hamilton Thorne, offers a unique, intuitive control system for fast and accurate ICSI and embryo biopsy procedures in the artificial reproduction laboratory.



- True one-handed operation using the AIO^{trackball} (All-in-One Trackball) in conjunction with the MIU^{mot}Oil (Motorized Oil Injection Unit).
 - Easy to control both the injection holding pressure and the motorized movement using the trackball and the two buttons.
- The integrated, ergonomic GEL^{pillow} allows hands to stay relaxed during extended operating sessions.
- An adjustable velocity setting permits balancing between operators and different magnifications.
- Coarse adjustments are offered in all relevant directions.
- The ability to disengage movement in the y-axis coupled with the superb accuracy allows an injection movement of proper parallelism.
- The TrakJector microinjection holder provides a two-step adjustment for the injection and holding angles. Both coarse and fine adjustments are easily made using a rotating control.
- The swing out mechanism permits easy access to the micropipettes. Combine this with the automatic HOME function for a fast and reliable way to exchange micropipettes and return them back to the original working position.



Designed and manufactured in Germany, the TrakJector micromanipulators offer a new standard in smooth fine control, precision (tolerance less than 1 μm), speed, mechanical stability, low-maintenance operation, and easy cleaning. The TrakJector fits on all common inverted microscopes from Leica, Olympus, Nikon and Zeiss.

TrakJector is available in two injector versions:

- Motorized

Our MIU^{mot}Oil allows exact and adjustable dosing of pressure during injection and offers a long-term bubble free workflow with easy refill oil reservoir. A hands off set up is key for a faster and more reliable operating environment.

- Manual

If manual injection units are preferred, the MIU^{man}Oil (Manual Oil Injection Unit) offers exceptional performance with an easy manual refill system. In the future, a MIU^{man}Air (Manual Air Injection Unit) will be available.



Specifications

- **Range of motorized axis: 24 mm**
- **Resolution: > 100 nm in one direction**
- **Repeatability: < 1 μm**
- **Velocity: up to 16 mm/sec, adjustable in 30 steps**
- **Weight of manipulator units: 10.5 lb (4.8 kg)**
- **Power: 110/240 VAC**

GYNEMED

Gynemed Medizinprodukte GmbH & Co. KG

Micropipettes

Full Line of Pipettes

Gynemed offers customized pipettes for use in the assisted reproduction laboratory.

Biopsy: to perform polar body, blastomere or trophectoderm biopsy

Available with blunt or 40° beveled opening, straight or with bending angle 20° - 35°, and with internal diameter of 10, 15, 20, 25, 30 or 35 μm .

Holding: to hold and immobilize the oocyte or embryo

Available with bending angle 0° - 40°, with outside diameter of 80, 100, or 120 μm , and polished opening of 15 - 25 μm I.D.

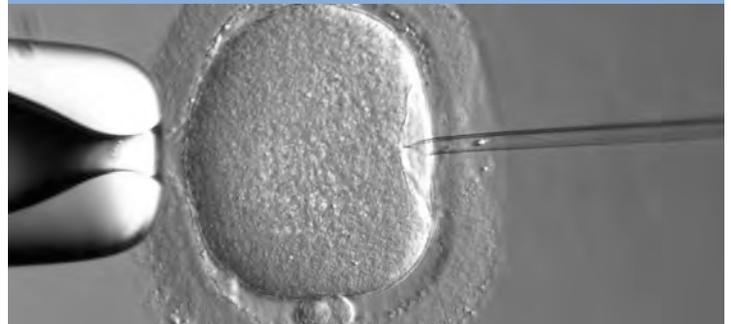
ICSI: to aspirate and inject sperm into oocyte

Available with or without spike, beveled, straight or with bending angle 20° - 40°, and with internal diameter of 4.6, μm , 5 μm or 7 μm .



Key Features

- All pipettes are made of medical grade borosilicate glass.
- To meet international standards as well as the requirements of the FDA, the pipettes are individually packed and sterilized by gamma-radiation.
- The pipettes are manufactured in accordance with highest quality standards respecting the following parameters:
 - length of the pipette
 - bending angle of the tip
 - inner and outer diameter of the tip
 - length of the tip
 - shape of the tip
- By means of mouse-embryo-test (MEA) each lot is screened for endotoxins to assure the highest possible safety for use in A.R.T. procedures.
- In addition to a lot number, each pipette has a unique serial number for highest level of traceability.



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