

# GYNEMED

## TrakJector™



Gynemed - Hamilton Thorne  
Micromanipulator

**BİL-TEK**

BİLİMSEL TEKNOLOJİK VE TIBBİ ÜRÜNLER TİC. LTD. ŞTİ.

**The TrakJector™, a newly developed and “Made in Germany” Micromanipulator from Gynemed/Hamilton Thorne, offers a unique control system for fast and absolute accurate ICSI and biopsy procedures.**

- The AIO<sup>trackball</sup> (All-in-one Trackball) in conjunction with the MIU<sup>mot</sup>Oil (Motorized Oil Injection Unit) offers true one-handed operation by controlling both the injection holding pressure and the motorized movement using the trackball and two buttons. Hands stay relaxed on the GEL<sup>pillow</sup> during extended operating sessions.
- Available in two injector versions:  
our MIU<sup>mot</sup> 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 workflow. If manual injection units are preferred our newly designed MIU<sup>man</sup>Oil (Manual Oil Injection Unit) offers outstanding performance with an easy manual refill system. Our MIU<sup>man</sup>Air (Manual Air Injection Unit) will be available soon.



- The TrakJector™ Micromanipulators offer low-maintenance operation, an outstanding performance in smooth fine control, precision (tolerance  $\leq 1 \mu\text{m}$ ), speed and mechanical stability. Different velocity settings allow balancing between operators and different magnifications. The manipulator offers coarse adjustments 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. Due to its tidy design the manipulators are easy to clean.



- The TrakJector™ Microinjection-holder provides a two-step adjustment for the injection and holding angles. The holder offers both coarse and fine adjustments using an easy rotational control.
- The swing out mechanism permits easy access to micropipettes and together with the automatic HOME function, a fast and reliable way to exchange the micropipettes and bringing them back to the original working position.

Technical specifications of TrakJector™	
Range of all motorized axis	24 mm
Resolution	> than 100 nm in one direction
Repeatability	< than 1 µm
Velocity	up to 16 mm/sec adjustable in 30 steps
Weight of manipulator Units	4,8 kg
Power	100 - 240 V

- The Gynemed/Hamilton Thorne TrakJector™ fits on all common inverted microscopes from Leica, Olympus, Nikon and Zeiss.



Designed and distributed by:

The GYNEMED logo is white text on a magenta rectangular background. Below the text is a horizontal line with a series of small squares.

Gynemed Medizinprodukte  
GmbH & Co. KG  
Lübecker Straße 9  
23738 Lensahn  
Germany

Tel.: +49 (0) 4363 90 32 90  
Fax: +49 (0) 4363 90 32 9-19

info@gynemed.de  
www.gynemed.de



HAMILTON THORNE

Hamilton Thorne, Inc.  
100 Cummings Center  
Suite 465E  
Beverly, MA 01915  
USA

Tel.: +1 978-921-2050  
Tel.: +1 800-323-0503  
Fax: +1 978-921-0250

info@hamiltonthorne.com  
www.hamiltonthorne.com

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