



# Equipment

Our cutting edge range for ART

Incubators, Workstations, Micromanipulators and Lasers



QUALITY CONTROL | OOCYTE RETRIEVAL | ANDROLOGY & IUI | FERTILIZATION | CULTURE | PGD & PGS | CRYOPRESERVATION | EMBRYO TRANSFER



CooperSurgical Companies

# IVF market leaders ORIGIO, Research Instruments and K-Systems have joined forces, as CooperSurgical companies.

We are now working in partnership, sharing our extensive experience, pooling our scientific knowledge and collaborating with ART experts, to provide a system of innovative products for the complete IVF process.

Using our unique combination of tried and tested equipment, scientific insights, understanding of clinical processes and informative training and education programme, we will empower your clinic to succeed.

Availability of a device for clinical use is dependent on the regulatory approval status within the country the device is intended to be sold into.

## Incubators

Our range of incubators will provide a stable culture environment essential for the optimization of embryo development whilst not compromising your requirements for space.

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## G210 InviCell

### Long Term Incubator

Encapsulating 20 years of incubator development, the G210 InviCell incubator combines optimal embryo growth conditions with advanced user control. It is the ideal incubation solution for a busy clinic.

- **Space Saving** - Ten individual incubation chambers to ensure minimal stress and risk of cross contamination for the embryos. Significant space saving
- **Heating** - Dedicated heating plates with grooves ensure direct heat transfer to the dish
- **Responsive Gas Control** - Set the required specifications to mix CO<sub>2</sub> and O<sub>2</sub>. Uses pure CO<sub>2</sub> and N<sub>2</sub> (optional)
- **Optimal Environment** - Embryo conditions, including pH levels, are kept completely stable through advanced and accurate software control of gas and temperature thus providing stress free incubation
- **Ambient humidity** - The G210 is an incubator with ambient humidity which strongly minimizes the risk of fungal growth inside the incubator and makes it easier to clean
- **Safe** - Electro-magnetic fields eliminated by non-inductive EM Neutra™ technology (patented)
- **Superior Filtering and Hygiene** - High efficiency particle filter to remove airborne particles. VOC filter to remove organic compounds
- **Tracking and Alarm** - Data logging and alerts with K-Link™ extensive ethernet based monitoring



- **Advanced User Control** - Advanced intuitive user interface with dedicated security system
- **Economical** - Low running costs because of low gas consumption and use of pure gas
- **Independent External monitoring** - An option for independent external monitoring of key parameters including temperature and gas concentration
- **Certified** - CE Marked



# G185

## Long Term Flat Bed Incubator

This clinically validated incubator is the ideal work horse in a busy clinic. It reduces stress factors for the embryos by strong control of the environment.

- **Ambient humidity** - The G185 is an incubator with ambient humidity which strongly minimizes the risk of fungal growth inside the incubator and makes it easier to clean
- **Practical** - Includes ten individual incubation chambers to ensure minimal stress and risk of cross contamination for the embryos. Significant space saving
- **Monitoring** - Effective heating and gas control system assuring all critical parameters are monitored and controlled to maintain stable pH, heating, gas levels
- **Certified** - CE Marked
- **Consistent Heating** - Dedicated heating plates with grooves ensure direct heat transfer to the dish
- **Responsive Gas Control** - Set the required specifications to mix CO<sub>2</sub> and O<sub>2</sub>. Uses pure CO<sub>2</sub> and N<sub>2</sub> (Optional)
- **Superior Filtering and Hygiene** - High efficiency particle filter to remove airborne particles. VOC filter to remove organic compounds
- **Economical** - Low running costs due to low gas consumption and use of pure gas



## Incubator Stacking System

Space saving with the Stacking System for the G185 and G210



The Stacking System has a capacity for three incubators equivalent to 30 patients. It provides central monitoring for three incubators, sliding shelves with soft closure function, built in power outlets, a fan for heat removal and a tray system for organizing tubes and cables.

# ORIGIO®/PLANER BT37

## Benchtop Incubator

Designed to maintain consistent culturing environments for optimum temperature and pH control.

- **Emergency Power** - Integrated battery backup
- **Fast Recovery** - Rapid recovery to optimal temperature, gas and humidity
- **Compatible** - Base plate of chamber designed to fit commonly used IVF dishes
- **Monitoring** - Six ports for temperature monitoring
- **Optimal Conditions** - The BT37 works with premixed gas of choice to achieve the proper CO<sub>2</sub> and reduced environment O<sub>2</sub>
- **Certified** - CE marked. 510(k) cleared. Australia Medical Device licensed



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# Workstations

Our workstations are of the highest quality, providing a comfortable and high-functioning work area. Every effort is made to ensure that every workstation ordered meets the needs of the lab - large or small.

Each workstation comes with the option of a RI Witness flush fitted heated plate providing consistent temperature control as well as security and tracking for your embryos and gametes.

RI Witness  
Ready

## Class I Workstations

Our workstations are designed for optimal working conditions in the lab and provide a safe and optimized environment.

Available in a range of size options (660mm, 900mm, 1200mm, 1500mm, 1800mm) and multiple configurations. All of our workstations are CE marked.

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# K-Systems 100 series

This series of workstations provides protection and heating for samples and a broad variety of other features.



L124

- **Heating and Humidification** - As a standard, the 100 series has an integrated gas humidification system. The Alu Heat system, developed using K-Systems' many years of experience, controls and provides uniform and precise heat distribution in the work area
- **Quiet** - The quiet fans supply a uniform and turbulence free air flow

### Models available

L124	L124 ICSI
L125	L126
L126 MP	L126 Dual
90mm diameter heated glass	

RI Witness Ready

# Fortuna IVF Workstation

Fortuna IVF Workstations are specially designed to meet the needs of a busy IVF Laboratory where Class I protection is required.

- **Consistent, Gentle Air Flow** - Even curtain of non-turbulent air flow at less than 48dBA, filtered with HEPA filters
- **Safe** - Fortuna workstations are independently certified and comply with the necessary safety requirements for electrical equipment: IEC 61010- 2-010:2003, IEC 61010 -1 -2010 (3rd Edition)
- **Even Temperature Control** - Integrated temperature controlled humidification system enabling full flexibility for short-term incubation

### Width Options

900mm	1200mm
1500mm	1800mm



RI Witness Ready



L126 MP



L126 DUAL



- **Optimized Work Area** - Electrically heated, microscope prepared surface, with accurate control and even temperature stability. A heated glass stage, and an LED light source as standard. Also included as standard are a 21.5" LCD monitor and electrical outlets
- **Certified** - CE marked

# Titan IVF Workstation

A compact single workstation to fit any laboratory with work-space constraints.

- **Space Efficient** - Only 660mm wide
- **Quiet Consistent Air Flow** - Even curtain of non-turbulent air flow, at less than 52dBA, filtered with HEPA filters
- **Temperature Stability** - Electrically heated surface with accurate control and even temperature stability
- **Optimized Work Area** - The heated surface is microscope prepared and includes a heated glass stage and a LED light source as standard
- **Adjustable Height** - Available with fixed support stand or electrical adjustable height stand
- **Safe and Certified** - Independently certified and complies with the necessary safety requirements for electrical equipment: IEC 61010- 2-010:2003, IEC 61010 -1 -2010 (3rd Edition). CE marked



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# Class II Workstations

All our Class II workstations meet the relevant required standards, such as ISO 14644-1 or EN 12469, to protect both the sample and operator and are ideal when working with high risk patients.

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# L234 CellTouch

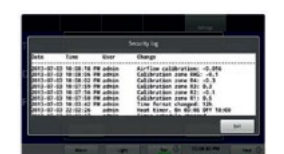
The L234 is a 1200mm biosafety cabinet designed as a single workplace with the mounting of a stereo microscope.



- **Superior Temperature Control** - Heating system with edge enhancement for optimal temperature control and even heating all the way to the edge
- **Large Work Area** - Offers a large heated area with Ø90mm heated glass
- **Quiet** - Low noise level
- **Integrated Control** - Controlled by a built in touch screen including monitoring system



Monitor your heat zones



Access to present and historical user interactions



Plan your week and save energy



Quick response to problems (alarms)

RI Witness Ready

# Mars IVF Workstations

Mars IVF Workstations are specially designed to meet different laboratory space requirements

- **Even, Clean Air Flow** - Even curtain of non-turbulent air flow at less than 52dBA, filtered with HEPA filters.
- **Certified** - Independently certified and comply with the necessary safety requirements for electrical equipment: IEC 61010- 2-010:2003, IEC 61010 -1 -2010 (3rd Edition). CE Marked
- **Adjustable Window** - Electrically adjustable front window
- **Temperature Controlled, Optimized Work Area** - Electrically heated surface with accurate control and even temperature stability. The heated surface is microscope prepared and includes a heated glass stage, and an LED light source as standard, as well as a 21.5" LCD monitor and electrical outlets

## Width Options

900mm

1200mm

1500mm

1800mm



## G603 Work Chamber

The K-Systems G603 combines the characteristics of a workstation with a humidified and O<sub>2</sub>/CO<sub>2</sub> controlled environment.

- **Gas Controls** - The integrated gas mixing system mixes the CO<sub>2</sub> and O<sub>2</sub> to your preferred level of mixture
- **Stable Environment** - The re-circulated, humidified and warmed gas combined with the Alu Heat system assures a stable temperature and incubation-like characteristics in the entire work area
- **Premium Filtration** - Gas circulation through a HEPA filter, a VOC filter and a closed UV light chamber.
- **Adjustable Height** - Electrical adjustable height range: 750 - 1150mm

# Integra 3™

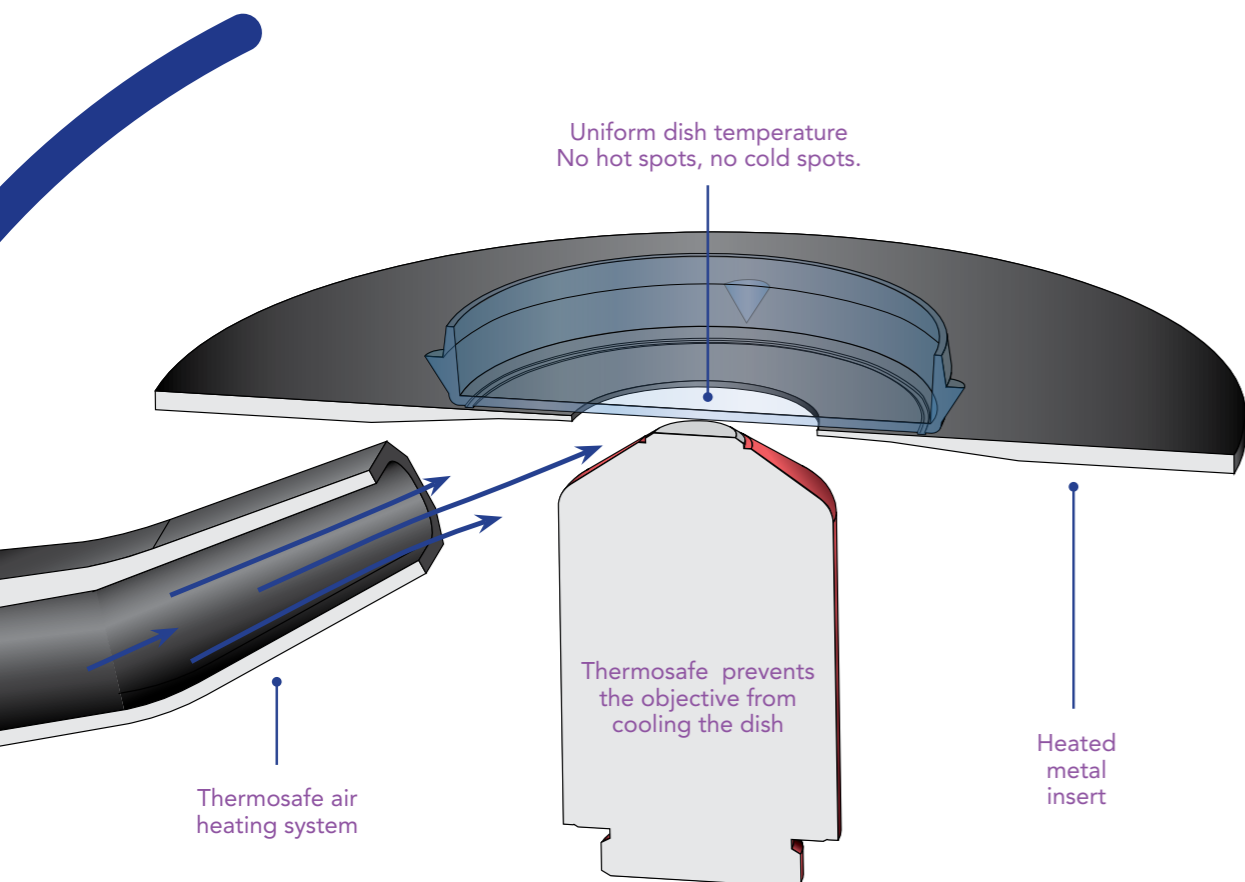
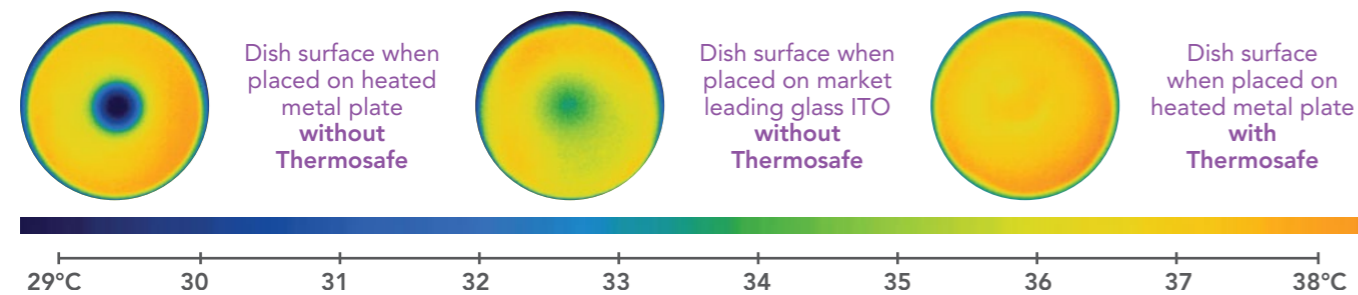
## The World's Most Advanced Micromanipulation System

Temperature and time are critical within an ART lab. The Integra 3 micromanipulator is ultra-responsive and effortlessly smooth, so it's quick and easy to use thanks to RI's advanced mechanical design.

### Featuring Thermosafe™

The Integra 3 features the revolutionary Thermosafe which, by passing a gentle stream of air under the Petri dish, maintains sample temperature across the dish. Put simply, Thermosafe is an integral heating system that helps to keep samples at the optimum temperature. It provides advanced temperature control in comparison with a glass ITO and metal plate without Thermosafe.

The result is no more cold spots, no more hot spots or ambiguity.



### Precise and Intuitive Control

Every detail of the Integra 3 is geared towards one goal – to ensure you create the best possible conditions for ICSI and sample manipulation. When performing ART micromanipulation procedures, accuracy is paramount. Integra 3 offers the finest possible movement of the XY stage, precise movement of the micropipette through the fine and coarse control levers, and a choice of oil or air syringes for the control of specimens. Its further design features optimise ease of use.

- **Super-Fast** - Improved rapid micropipette set-up with one-step angle adjustment
- **Easy To Use** - Simple touch screen controls for adjusting stage temperature
- **Motion-Triggered Light** - A motion triggered light illuminates under the stage as soon as it detects your hand, to help you see when changing objectives
- **Shortcuts** - If you need to keep track of samples or procedures, just hit the shortcut buttons to film or photograph any stage of the process. There is also a counter button and an on-screen stopwatch
- **Safe** - Stage temperature control status indicator light and alarm monitors every second of the process. A log is kept of every alarm triggered
- **Colour Touch Screen** - 3.5 inch touch screen display showing temperature, stopwatch and counter. The electronic height indicators track the vertical position of the toolholders.
- **Integrated** - Large built-in mechanical XY stage plus temperature controllers with easy access buttons and touch screen





## Saturn 5™

### Fixed and Directional Laser System

The first directional laser on the market, the Saturn Laser System is a must for biopsies, assisted hatching and zona thinning.

#### Saturn 5 Active Directional Laser with Curved Biopsy Mode

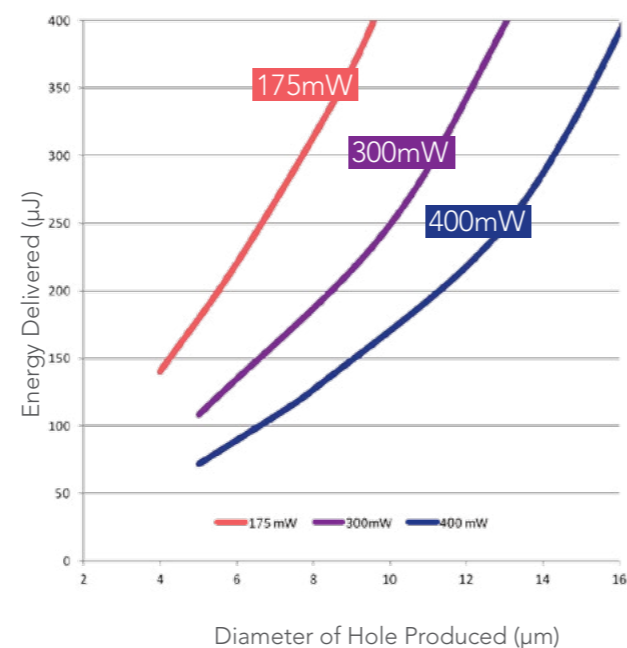
Using Biopsy Mode, you can draw a straight or curved line along the sample, select the number and size of holes, and then simply "fire". The laser will ablate exactly along the chosen path, meaning you no longer need to move the holding pipette. It is that easy.

#### Safest Power

Lowest laser pulse times for minimal energy near critical cells. Exclusion Zone feature ensures cell safety.

1. RI White Paper. A comparison of different power levels used by laser systems in the IVF laboratory – Available upon request.

Energy Delivered vs Hole Diameter<sup>1</sup> Using Saturn Laser (400mW)



### RI Viewer™ Intuitive Software as Standard

In addition to its intuitive use and safety assurances, the new Saturn 5 features RI Viewer software. The software offers uncluttered full screen imaging from the microscope, digital magnification and a modern, clean user interface. RI Viewer also offers a recording function, line measurement tools which are visible on-screen and are printable, plus a built-in laser simulator for training and demonstration purposes. RI Viewer supports a range of languages.

- **Precise** - Sub-micron accuracy and unique computer controlled laser with guaranteed laser alignment
- **Rapid** - Faster than ever directional laser increases functionality and decreases procedure times
- **Always Spot-On** - As the Saturn 5 pilot laser travels down the same fibre optic path as the ablation laser, it guarantees consistent positioning
- **Foot Pedal** - A USB single or triple foot pedal can be programmed to control main features such as Fire, Zoom, Take photo, etc
- **CE Marked and FDA Approved** - In the USA, FDA cleared for clinical use for embryo biopsy, trophoctoderm biopsy, blastocyst collapsing and Laser Assisted Hatching (LAH)



# Supporting Products

In addition to our key pieces of lab equipment, a wide variety of supporting products are available in the ORIGIO and K-Systems portfolio.

To find out about these and other products go to [origio.com](http://origio.com), [k-systems.dk](http://k-systems.dk) and [research-instruments.com](http://research-instruments.com)

## K-Systems Products These products are not available for sale in the USA



CO<sub>2</sub>/O<sub>2</sub> Humidifier



Portable Incubator G95



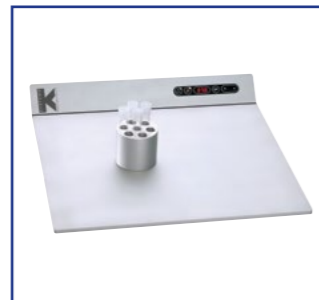
CO<sub>2</sub> Mini Incubator G85



Anti Vibration Table



Block Warmer - G73 and Warming Blocks



Warming Plate T45 & T47



Trolley with Warmed Table Top



Incubator Glass Hoods

## ORIGIO Products



Gas Line Filter



Gas Analyser



Scanfuge Centrifuges



Anti Vibration Table

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## Service Plan

Helping you Focus on your Core Business

In today's busy laboratories, downtime due to equipment failure is not an option.

In fact, ensuring your laboratory is functional is an important driver to a laboratory's success. CooperSurgical companies; Research Instruments, K-Systems and ORIGIO want to help you maintain focus on your core business.

Our CooperSurgical Service Plan gives you the confidence to know our equipment will not let you down. We offer a range of contract options to suit your needs. In fact, we cover it all: contracts providing preventative maintenance and service, reliable access to spare parts, product training and online handling of service requests. We think of ourselves as a partner, helping you to improve your lab's efficiency and effectiveness.

**Our Service Plan offers you the highest professional standards.**

As a CooperSurgical Companies Service Plan holder you have 100% confidence in the level of service and parts that you will receive.

Only CooperSurgical Service Engineers are authorized to maintain and repair our products and supply approved parts. In addition, our Service team are able to provide full and up-to-date instrument maintenance records, on request to IQ, OQ level to support your PQ activities, and help you meet ISO15189 requirements and other mandatory requirements for equipment and materials as laid out by such regulators as the Human Fertilisation and Embryology Authority (HFEA) in the UK and the American Society for Reproductive Medicine (ASRM) in the USA.

**For more information please contact [service@research-instruments.com](mailto:service@research-instruments.com)**



**Train with ORIGIO and optimize your performance, learn new skills and network with international peers**

Since 2011, we have invited customers and partners to learn new techniques and share best practices in our fully equipped laboratory.

At the ORIGIO Training Labs we provide evidence-based training by skilled, experienced embryologists which includes demonstrations and hands-on training in a comprehensive range of Assisted Reproductive Technologies (ART) and culture media processes.

**For further details and to book places visit [www.origio.com](http://www.origio.com)**

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All information correct at time of print. Specifications are subject to change without notice or obligation on the part of the manufacturer.

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