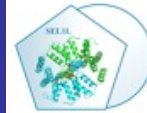**Integrated Systems Engineering S.r.l.**
Tissue & Cell Biotechnologies
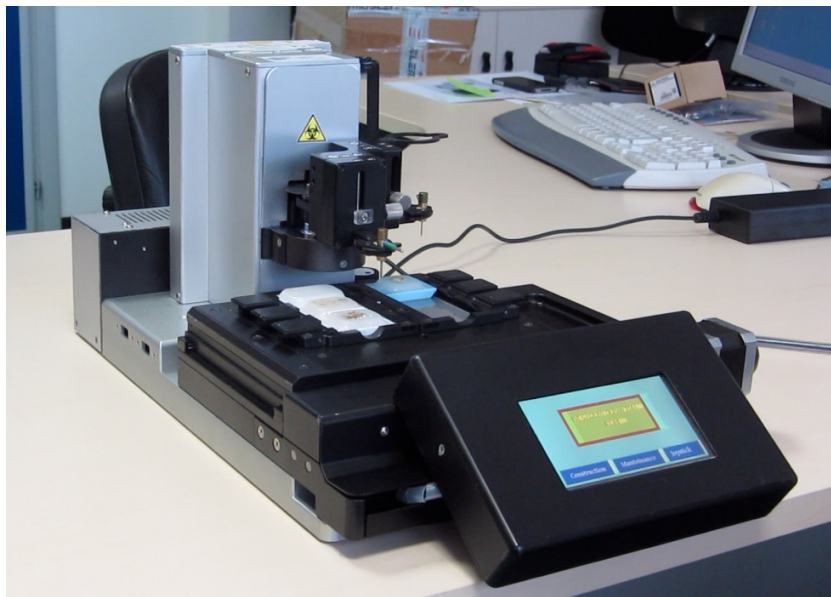
GALILEO TMA CK 2500
Semiautomatic TMA platform

ISENET-USA LLC
Tissue & Cell Biotechnologies

TOUCH SCREEN PANEL with FRIENDLY USER INTERFACE (ISE-SW®)

- *Digital Joy-Stick*. Which allow the x/Y movement of the automated stage
- *Programming capabilities*: It is possible to store (and use later) up to 5 different 5 geometry
- *Selection* (in any combination) *of the donor or recipient position* on the 6 holder block position
- *Construction function* (supports the user during the contruction of the TMA
- *Needle Calibration function*
- *Screen calibration function*

UP-TO-6 BLOCK AUTOMATED STAGE

- *Computer assisted automated stage* ensures precise and rapid positioning of the paraffin blocks (operated via Digital Joy-Stick).
- *6 positions Sample holder.* Donors and recipients can be positioned in any location.

AUTOMATED NEEDLE POSITIONING

- *Automated needle positioning,* avoids errors during TMA construction, speeds up the process and increase quality of the TMA.
- *Core insertion depth regulation*, position recipient core needles aligned to the top of the paraffin block.
- *Easy needle mounting*.
- *Standard 0,6, 1.0, 1.5 & 2.0 mm diameter needles*. Available also 3.0 and 5.0 mm diameters needles

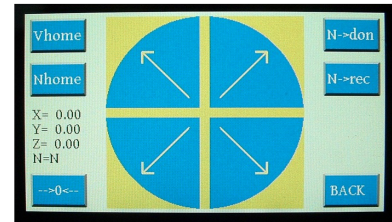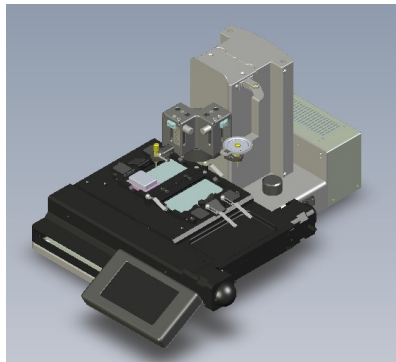## CE marked for IVD (Calss II)

- ## TOUCH PANEL user Interface
  - Equipment interface designed to assist the user in all operating phases of TMA project.
    - Calibration
    - Electronic Joy Stick
    - Template Edit
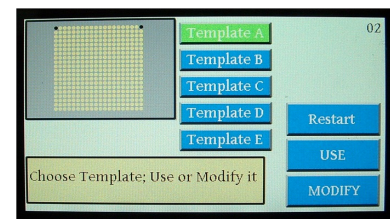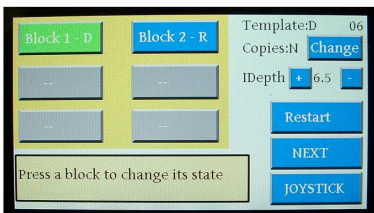   - Donor and receptor block selection
    - Construction

- ## UP-TO-6 BLOCK AUTOMATED STAGE
  - Computer assisted and automated tray that ensures precise and rapid positioning of the paraffin blocks while in use.
  - Sample holder to position up to six standard histological cassettes.
  - Back lighting
  - Needle Size: 0.6, 1.0, 1.5 & 2.0, 3.0 & 5.0

- ## AUTOMATED NEEDLE POSITIONING
  - Automated and computer guided needle positioning to help operator to construct the array, avoiding errors that could endanger TMA quality and speeds up the process.
  - Accurate and automated regulation of the core insertion depth.
  - Easy needle mounting.

- ## Template Edit
- **Create geometry of the array** (paraffin size, needle diameter, number of spots and spacing or pitch between the spots).
- Introduce rows/columns or spot groups of spacing to separate the various specimens.
- Define a library of up to 5 TMA templates to be re-called and re-used in different TMA projects.

Video: https://www.youtube.com/watch?v=ZIw4Nd0dZUA