DK Technologies' Stepper-Stabilizer System

A user-friendly multipurpose positioning device

The universal articulate arm SoLo B is used as a stabilizer for diagnostic and therapeutic applications.

The arm is a novel fully flexible system that can be positioned freely by just pulling the trigger on the arm handle.

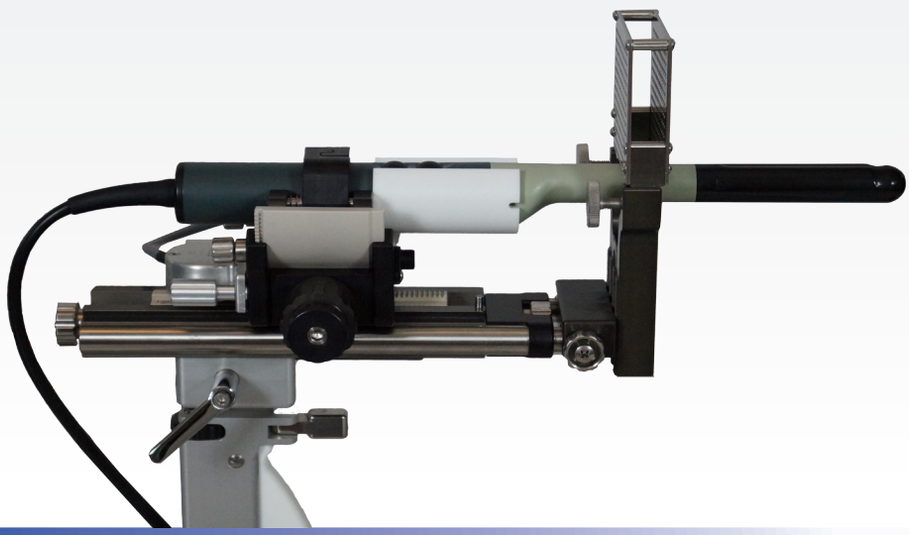
An optional elevation and swivel device integrated into the arm handle is available.

The precision stepper enables the user to advance and retract an endo-rectal ultrasound probe in the rectum to image the prostate.

Different Procedures and Therapies such as Prostate Biopsies, Brachytherapy and Cryotherapy can be performed with this system.

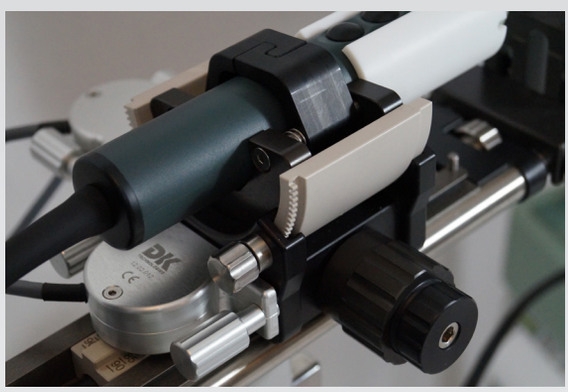
The simple to use stepper-stabilizer-template combination is extremely compact and robust. It is attached to one OR side rail only and thus never in the way during treatment.

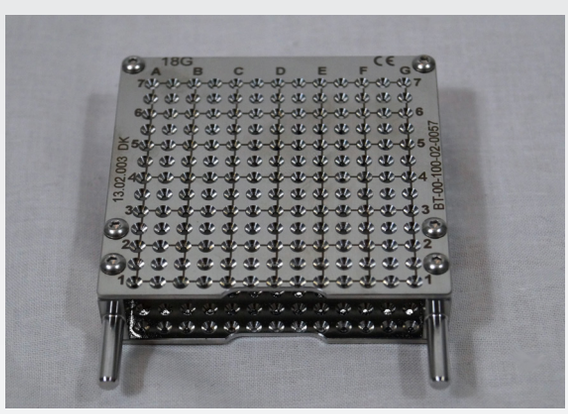
The stabilizer supports the stepper. The stabilizer is connected to the side rail of an OR table by a universal table holder fitting to any standard rail.



Highlights

- The endo-rectal probe is inserted into and fixed to the stepper and positioned by moving the stepper-probe combination
- The autoclavable stepper can be adapted to most endo-rectal probes from most producers
- The probe can be rotated around the probe's long axis (± 70°, probe dependent). On probe rotation the stepper gives a tactile feedback at its center and end positions
- Linear and rotational movement can be attenuated at any position
- Movable length of the probe with the stepper: 100 mm
- Scale for position recognition
- Step width: 2.5 mm or 5 mm selectable as well as free analog movement forward and back
- Additional free positioning of the probe to define the exact stating point for stepwise movement: 50 mm
- Optionally, incremental encoders for the electronic transfer of the rotational and transverse position of the probe to most software-planning/monitoring systems are available
- The template with its holder is movable (100 mm) in the direction parallel to the ER probe's long axis and can be fixed at any position





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