



Arthroscopy Assistance System

Anthronics, Markdorf



BACKGROUND and BASICS

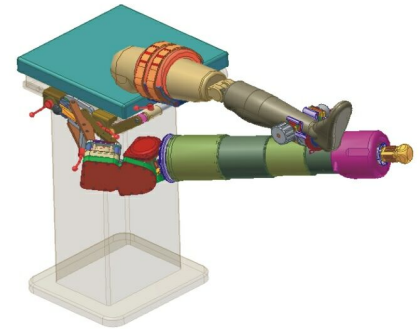
Human joint surgery for fast und reliable fixation of variable joint orientations

- general movability or movable in/around separate axes
- one guide grip for easy positioning and fixation
- maintenance of strains generated by the surgeon.

The assistance system addresses a future market of up to 30 Mio € per year for instrumentation for minimally invasive surgery access.

Competences of Anthronics:

Medical positioning and motion systems, man-machine-cooperation, force-feedback-systems for controlling force execution, movement and positioning by the operator.



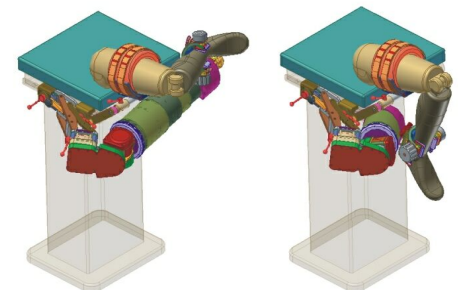
CONCEPT and SOLUTION

Electromechanical fixation without motor drives for unhindered operator movement and easy manipulation with one hand.

Modular construction for easy handling and sterilization.

Realization:

Compact design, only as large as necessary
High stability, accessibility for any relevant operation
Infinitely arrest able for adjusted stress generation
Damped joint motion



STATUS and OUTLOOK

A detailed CAD-model and of the original model and a functional model for test applications are designed and simulated. Adaptation for knee and shoulder operations were developed.

A patent of joint arrangement and elimination of disturbance forces is granted.

Expose, business plan and market study are available.

First contacts to possible customers have been established.

We are looking for:

Partners for prototype manufacturing and testing. Sales partners, investors and partners for licensing agreement wanted.



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