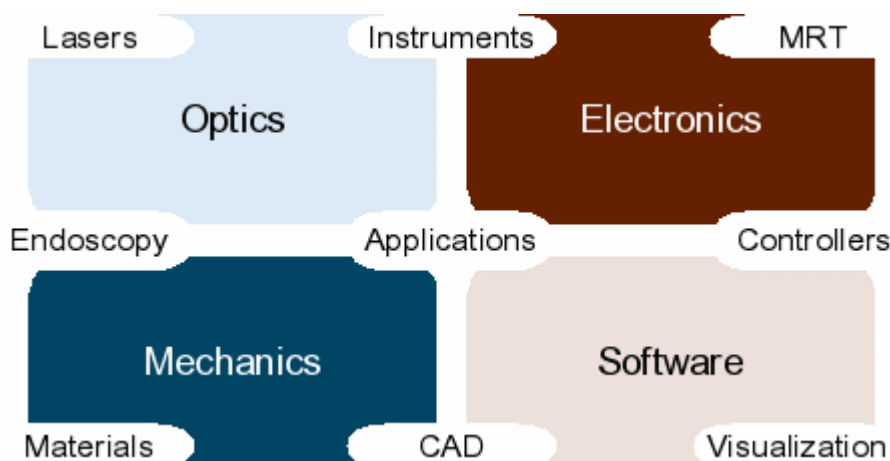


## Professional Services

- [MRC's World of Competence](#)
- [CE Marking and Quality Management](#)
- [Clinical Trials](#)
- [Lasers & Optics](#)
- [MRI Equipment and Consulting](#)
- [Mechanical Systems](#)
- [Electronic Devices](#)
- [Software](#)
- [Downloads](#)

## MRC's World of Competence

MRC's experts cover the full range of medical products' requirements. We offer our expertise on your request and look forward to supporting your vision.



## CE Marking and Quality Management

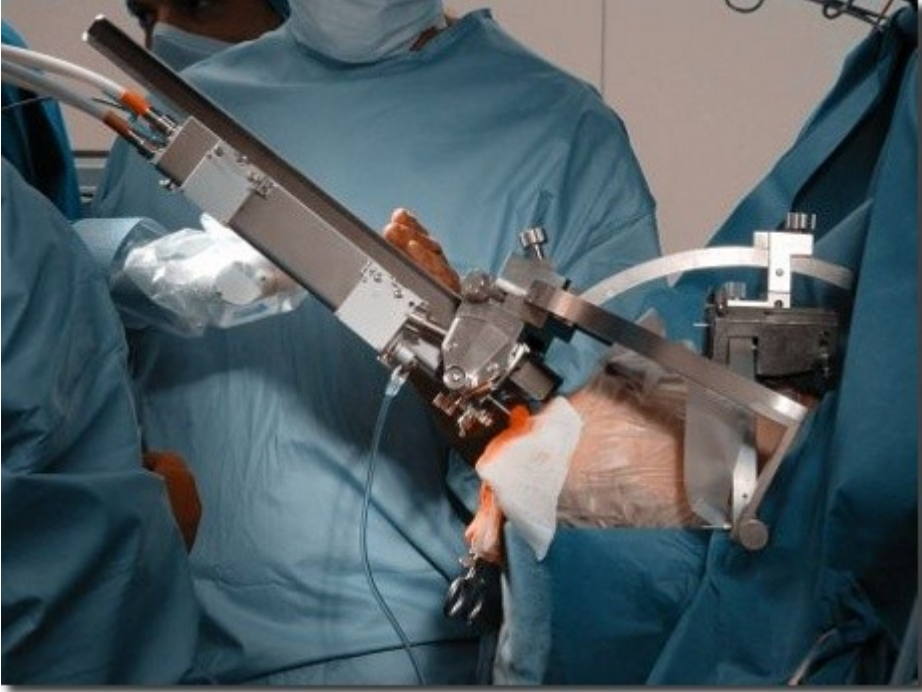
We support your products in all steps of the development life cycle. We can also guide you through the processes required for CE marking of medical products, like risk management, application of harmonized standard, or documentation of general requirements.

MRC has established a Quality Management System in accordance with the **ISO 9001**, **ISO 46001**, and **MDD** in 1998. We have updated our processes to the new requirements of **EN ISO 13485:2003 / AC 2007**, the standard for medical products. Our work processes integrate the high demands of medical product development & manufacturing with the force of analytical and creative engineers.

Back to [top](#)

## Clinical Trials

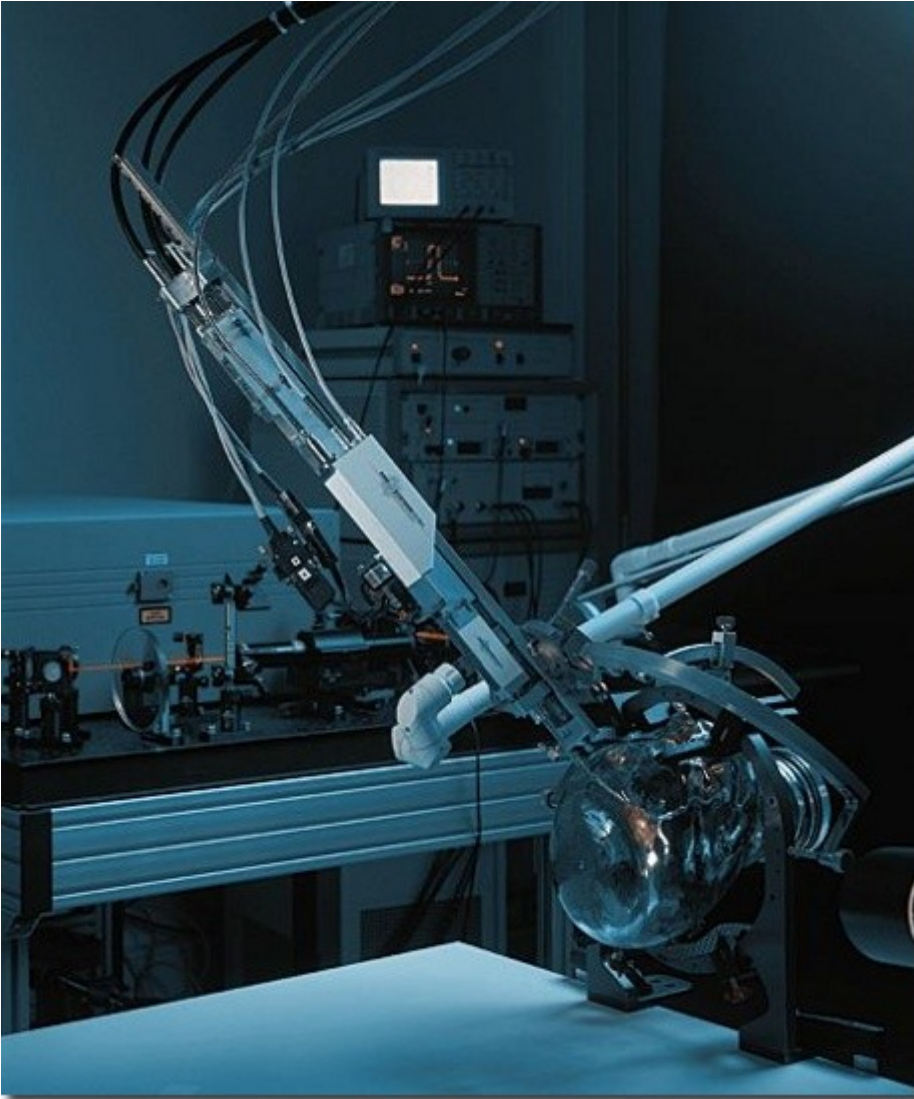
We have mastered the clinical introduction of surgical instruments and complete operation systems in accordance with the international standards **EN ISO 14155-1** and **14155-2** "Clinical investigation of medical devices for human subjects". Our experts are familiar with clinical workflows in ORs.



Back to [top](#)

## Lasers & Optics

We have been working on different projects where lasers, LEDs or other light sources are required. In the medical field, we have pushed projects based on the application of ultrashort pulsed lasers for minimal-invasive tissue removal. In addition to therapeutic applications of lasers we have also developed diagnostic tools like an endoscopic confocal microscope or a plasma spark detector.



Back to [top](#)

## MRI Equipment and Consulting

MRC has a wide experience in the development and installation of MR compatible and MR safe equipment. Our solutions fulfill the challenging mechanical and electronic requirements brought in by high magnetic field strengths and high-intensive RF fields. Examples are stereotactic components, MR compatible cameras, and sensory and control electronics.



We support:

- the development of new products for applications in MR scanners
- the adaption of your medical equipment to MRI-conditions
- your installation of MRI-equipment as well as your applications in the MR
- the MR-compatibility-checks of materials, electronics and technical sensors

Back to [top](#)

## Mechanical Systems

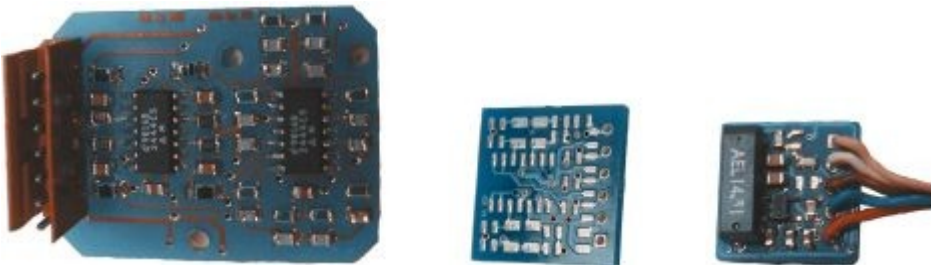
We have designed various surgical instruments and non-invasive medical equipment as well as optical mounts and other mechanical laser equipment. The photo below shows a prototype of a dynamic seat with a surface that simulates the pelvic movement in accordance with the natural human gait.



Back to [top](#)

## Electronic Devices

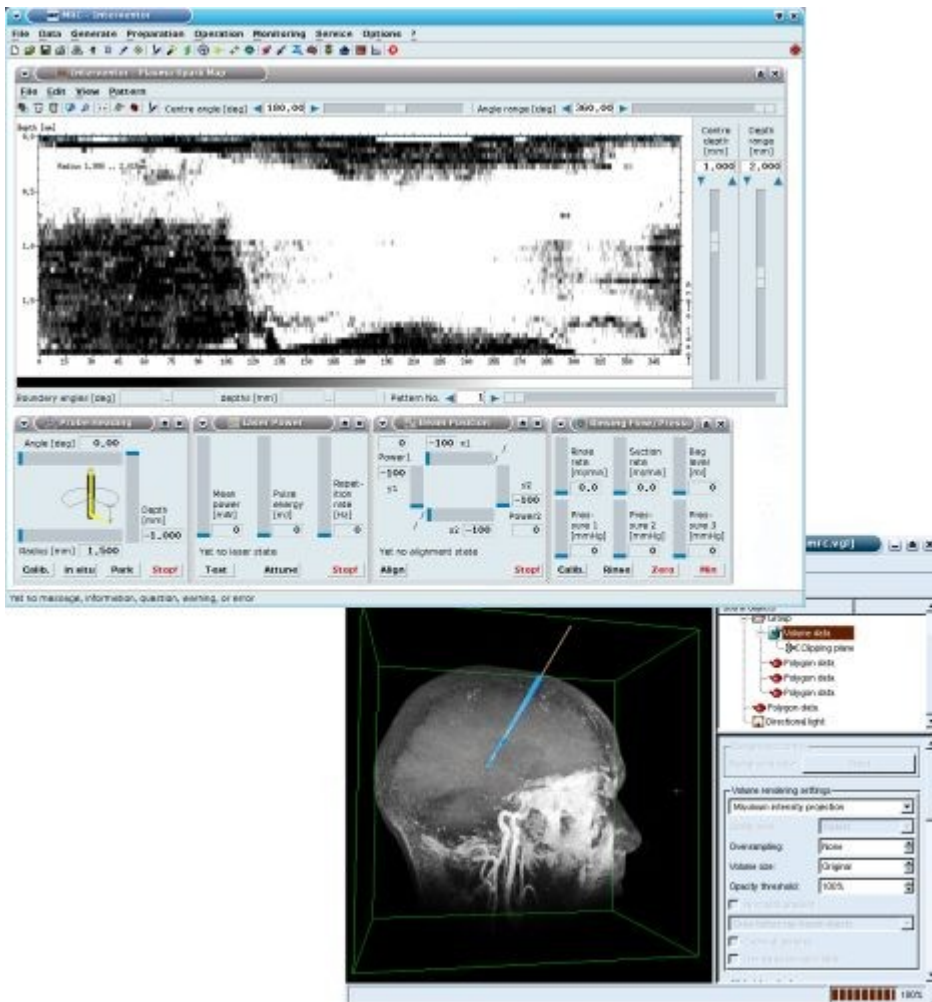
We have built a number of electronic components for clinical use. Examples are different optical detectors, magnet compatible power boards, and safety circuits for integrated systems. We are familiar with the relevant standards and can perform most parts of the conformity tests in-house.



Back to [top](#)

## Software

We have developed software modules for radiotherapy as well as neurosurgical interventions. The projects included real-time controller software for intra-operative operation and monitoring, substantial safety mechanisms, and graphical user interfaces.



Back to [top](#)

## Download competence information

- Download Flyer Services
- Download Flyer Lasers & Optics
- Download Flyer MRI
- Download Flyer Mechanical Engineering
- Download Flyer Elektronik Engineering
- Download Flyer Software

Back to [top](#)

Work in progress. Subject to change without prior notice.

## **MRC Systems GmbH**

Hans-Bunte-Str. 10  
69123 Heidelberg  
Germany

Phone +49-6221-13803-00  
Fax +49-6221-13803-01  
[info@mrc-systems.de](mailto:info@mrc-systems.de)  
[www.mrc-systems.de](http://www.mrc-systems.de)