

VirtaMed ArthroS™

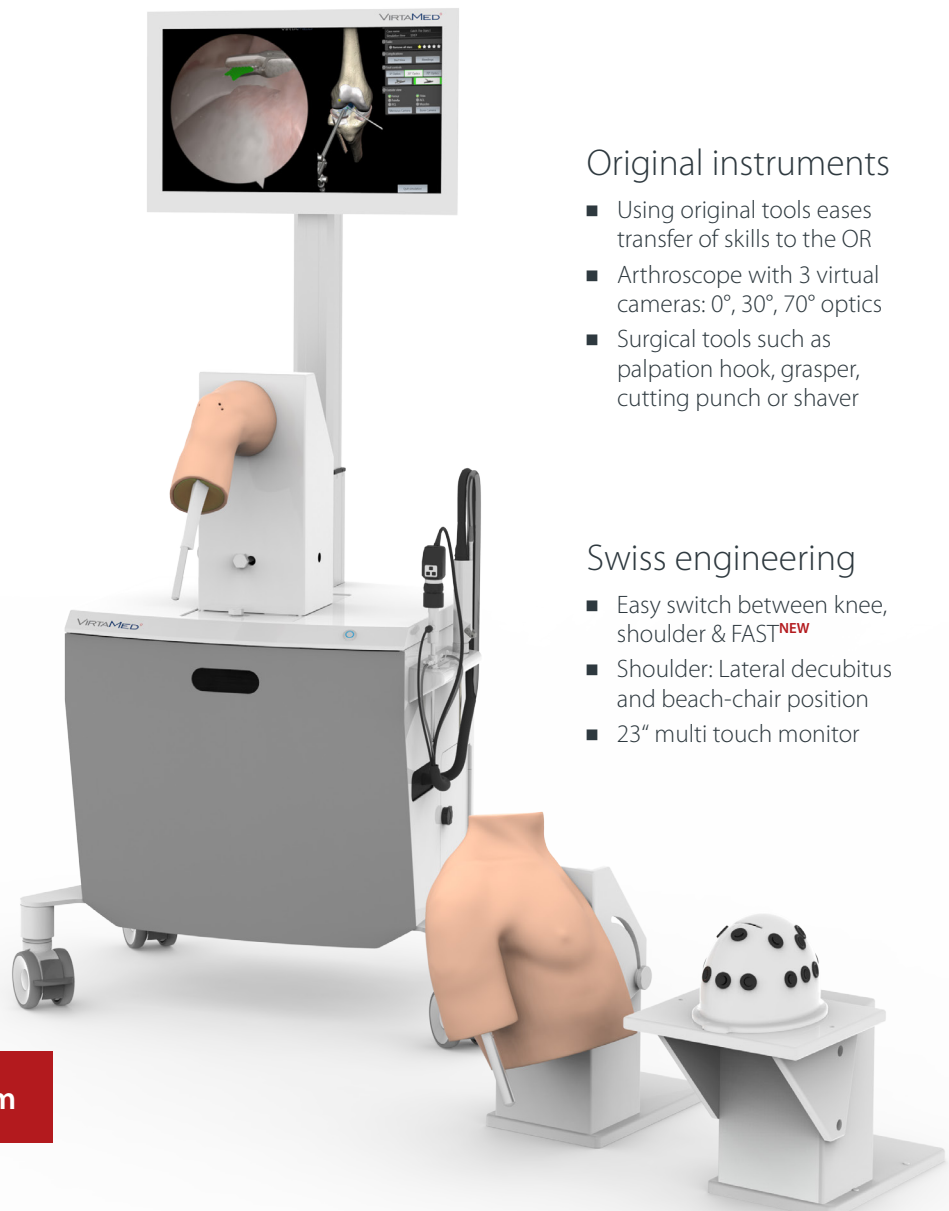
Virtual reality training simulator for knee and shoulder arthroscopy

Highest realism

- Photorealistic graphics
- Bleedings & complications
- Anatomical joint models create the sensation of operating on live patients

Customized training

- Endless variety of different training cases and pathologies available
- SimProctor™ for guidance
- Live performance feedback and expert-defined scoring



Original instruments

- Using original tools eases transfer of skills to the OR
- Arthroscope with 3 virtual cameras: 0°, 30°, 70° optics
- Surgical tools such as palpation hook, grasper, cutting punch or shaver

Swiss engineering

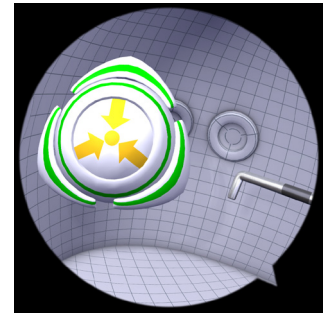
- Easy switch between knee, shoulder & FAST^{NEW}
- Shoulder: Lateral decubitus and beach-chair position
- 23" multi touch monitor

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Arthroscopy training modules on ArthroS™

Fundamentals of Arthroscopic Surgery Training^{NEW}

The VirtaMed ArthroS™ FAST module follows the AANA FAST (Fundamentals of Arthroscopic Surgery Training) program. This program has been developed within the ABOS mandate and is based on the FAST workstation, which stems from a collaboration between Sawbones and AANA. It contains 9 motor skill training tasks that guide trainees through the first steps of arthroscopy. The non-anatomical FAST workstation facilitates structured and ambidextrous training of fundamental arthroscopy skills such as camera navigation, usage of the angled optics and triangulation in a progressive manner.



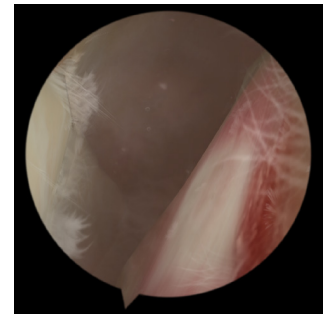
Arthroscopy basic skills

17 guided basic skill training tasks for knee and shoulder enable the trainee to learn to perform a complete arthroscopy in an efficient, professional way. The SimProctor™ gives colored hints and shows the correct position of the patient and instruments. Using original medical devices prepares trainees optimally for the OR. The highly realistic visual and tactile environment enables trainees to acquire a comprehensive understanding of the anatomic landscape. A guided diagnostic tour can be done, as well as advanced triangulation exercises such as catching stars between ligaments and bones.



Diagnostic arthroscopy

18 different virtual patient cases for knee and shoulder with varying level of difficulty offer trainees the chance to perform complete diagnostic arthroscopy interventions. Patients on the knee module include meniscus lesions, unhappy triad, and arthrosis grade I-III. On the shoulder module, trainees encounter amongst others lesions in the rotator cuff or the impingement syndrome. The major learning goals of the module is the safe handling of the arthroscope and of the camera, while avoiding collisions with the healthy tissue and minimizing cartilage damages.



Surgical arthroscopy

18 cases for knee and shoulder with various lesions in different locations provide training for first steps in therapeutic arthroscopy. Trainees use original instruments for training to ease the transfer of skills to the operating room. Palpation hook, grasper, cutting punch and shaver are available for simulation training. On both knee and shoulder, trainees can perform loose body removal tasks. The knee module also offers meniscus lesions or synovial membrane inflammations, while the shoulder module adds subacromial debridement and decompression to the portfolio of virtual patient cases.

