

PHOENIX 3000

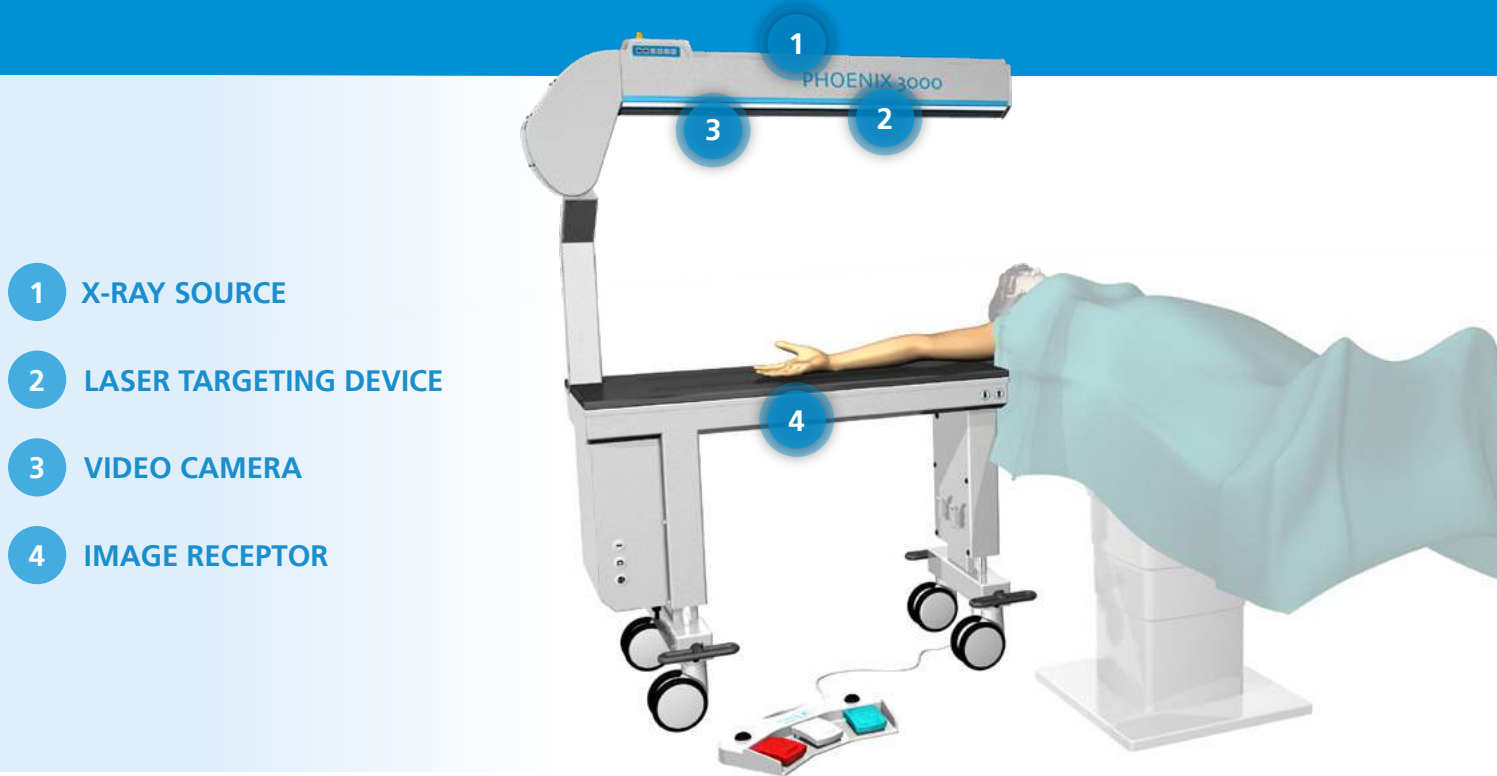
X-RAY SYSTEM FOR HAND SURGERY

WHAT IS PHOENIX 3000?



PHOENIX 3000 replaces a conventional hand surgery table, while simultaneously boosting its functionality by an integrated X-ray-based imaging system.

A support arm above the operating field accommodates the X-ray source. The corresponding image receptor is built into the tabletop, on which the patient's arm rests during the intervention. The motor-driven generator/detector assembly can be aligned exactly with the imaging object with the help of a laser targeting device.



- 1 X-RAY SOURCE
- 2 LASER TARGETING DEVICE
- 3 VIDEO CAMERA
- 4 IMAGE RECEPTOR

A separate mobile monitor stand with a generously dimensioned dual-image flatscreen enables real-time monitoring of the intervention as well as side-by-side display of two fluoroscopic or video images for the purpose of comparison.

INCREASED RADIATION PROTECTION THROUGH COPPER PRE-FILTER



An integrated copper pre-filter brings about skin dose reductions of up to 30%, while an especially optimized software algorithm ensures consistently brilliant image quality. This makes the PHOENIX 3000 one of the few extremity X-ray systems that are suitable for pediatric applications in compliance with the EN 60601-1-54 /203.7.1 standard.

- + Automatic dose rate control (ADRC)
- + Positioning of the imaging object far from the X-ray source forced by intelligent design
- + Dose reduction through built-in copper pre-filter
- + Consistently high image quality thanks to sophisticated software algorithm
- + Fulfills the requirements for pediatric imaging

OPTIMIZED WORKFLOW WITH THE PHOENIX 3000

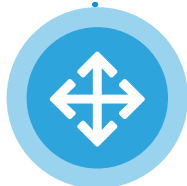


BEFORE THE INTERVENTION



ONE-TIME SETUP

The imaging/surgery table of the PHOENIX 3000 is installed once prior to the beginning of an intervention next to the patient positioning table and will stay in its place during the entire procedure.



FLEXIBLE TABLE ORIENTATION

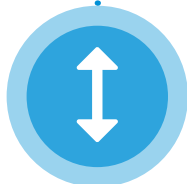
Depending on the patient's arm length and the task to be solved, the imaging/surgery table may be placed at the side of the patient positioning table either with its column end or its open end.



Column end

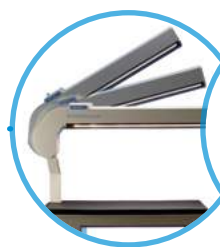


Open end



IDEAL WORKING POSITION FOR THE SURGEON

The motorized vertical adjustment of the imaging/surgery table is controlled by easily accessible buttons on both sides of the tabletop, allowing surgeons to lift or lower the table quickly and effortlessly to the height that is most comfortable for them.



Individual adjustments



HANDY WORKPLACE LIGHTING

Two LED strips mounted at the bottom of the generator support arm greatly support the OR team during patient preparation.



STERILE COVERS

For the most part, the sterile surgical drapes that are already on stock in the hospital or clinic may be used. Optionally, a made-to-measure sterile cover for the support arm is available.

OPTIMIZED WORKFLOW WITH THE PHOENIX 3000



DURING THE INTERVENTION



QUICK FAMILIARIZATION

An intuitive user interface and cleverly placed controls allow operators to familiarize themselves quickly and easily with the system.



NO REPOSITIONING OF THE FLUOROSCOPIC FIELD

The field of view (FOV) is aligned precisely with the region of interest (ROI) with the help of a laser targeting device and without radiation. This is done by the surgeon only once prior to the intervention, thus eliminating the need for time-consuming repositioning involving additional radiation.



FOOT-CONTROLLED OPERATION

The multifunctional foot control keeps the surgeon's hands free during an intervention, since all relevant operating functions – such as image and film sequence acquisition, folding up and down the generator support arm, saving or printing image data – can be controlled by means of foot pedals.



Smart multifunctional foot control



DRILLING UNDER FLUOROSCOPIC GUIDANCE

A vertical free space twice as large as that of a conventional mini C-arm setup creates a highly convenient environment for surgery work. Fluoroscopy is possible even during drilling procedures, thus providing real-time visual feedback on the drill path. Folding back the generator support arm increases the OR team's elbow room even more.



COMPREHENSIVE DOCUMENTATION

The acquired fluoroscopic images and film sequences are displayed enlarged on a high-resolution 27" dual-image flatscreen. In addition to X-ray images and films, users may also permanently save external live views of the intervention (full-color single frames or entire movies), which are generated by the integrated video camera.

OPTIMIZED WORKFLOW WITH THE PHOENIX 3000

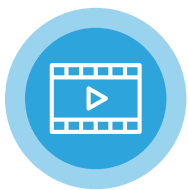


DOCUMENTATION AND COMMUNICATION



DIGITAL VIDEO CAMERA (OPTION)

The video camera allows you to document surgical interventions from an external perspective. You can display color images in real time on the screen during an intervention and optionally save single frames or entire movies to the system's hard disk.



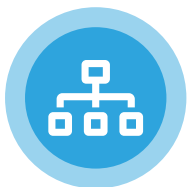
CINE FUNCTION

The system features a cine loop function, thus enabling users to record and save fluoroscopic image sequences.



IMAGE DATA EXPORT

The system comes with a built-in USB interface for the connection of cordless USB storage devices. In this way you can export single images and film sequences in TIF or AVI format to external media and subsequently view or post-process them on any computer.



PATIENT AND IMAGE DATA MANAGEMENT

All generated still and moving images can be saved permanently to the system's large internal hard disk. A clearly-organized patient and image database lets you retrieve all stored information rapidly and conveniently.



PRINTER (OPTION)

The system may be equipped with a video printer producing image printouts on thermal paper in 9 × 9 cm format.



DICOM INTERFACE (OPTION)

The system supports the following DICOM classes:

- DICOM Worklist for importing patient data from a HIS / RIS
- DICOM Store for transferring and saving images to a PACS server
- Modality Performed Procedure Step (MPPS) for generating dose reports

BENEFITS OF THE PHOENIX 3000 X-RAY SYSTEM



FOR THE SURGEON:

- + Ample working space
- + Quality assurance and improvement thanks to different control views (e.g. sky view)
- + Relaxed surgery work and smooth workflow
- + Legally watertight documentation
- + Preservation of sterility, as it is no longer necessary to keep moving around a separate imaging unit
- + Perfectly matched, sturdy components



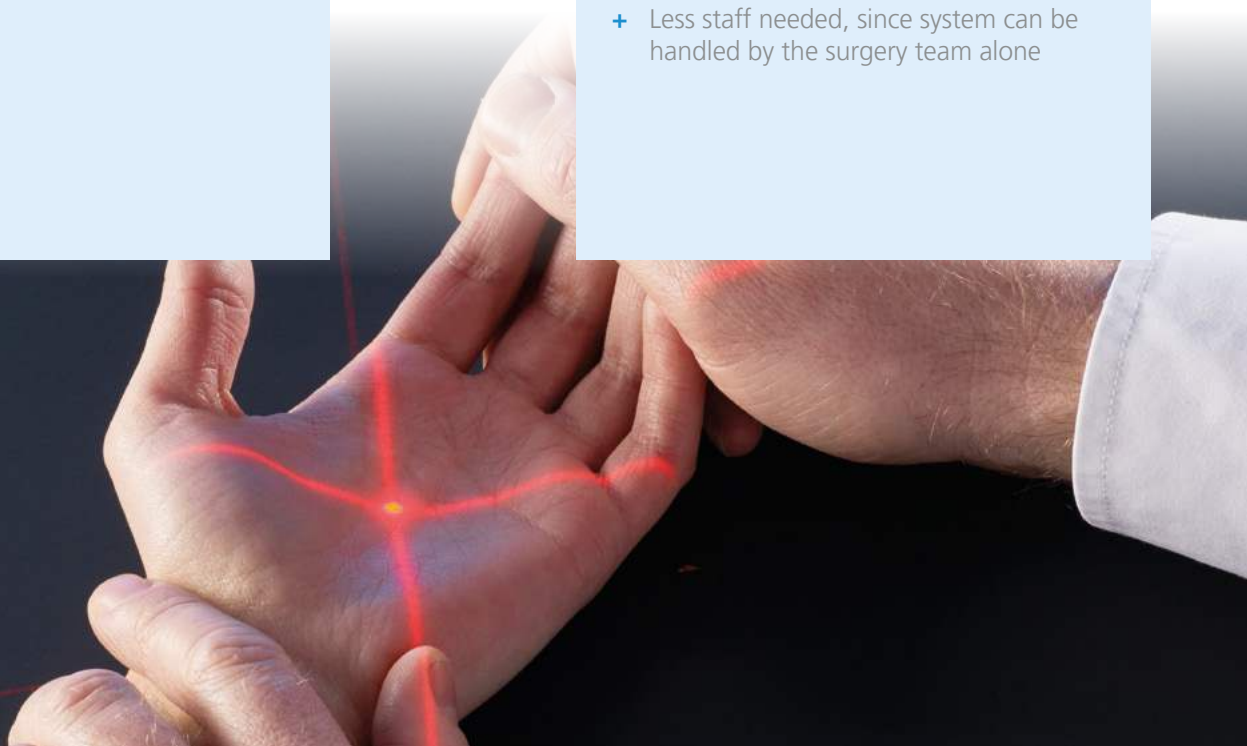
FOR THE PATIENT:

- + No repositioning necessary
- + Lower radiation burden
- + Shorter anesthesia times
- + Decreased risk of infections



FOR THE MANAGEMENT:

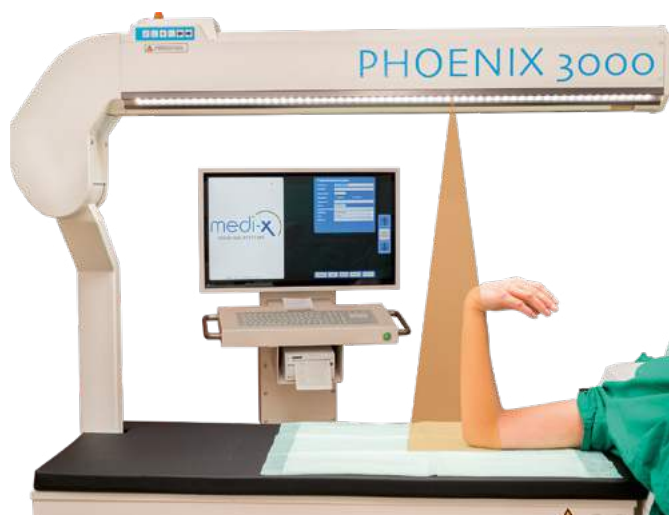
- + All-in-one, compact and reliable X-ray system
- + No costly purchase of single pieces of equipment
- + Improved OR capacity utilization thanks to shorter intervention times
- + More space in the OR for other essential equipment
- + Less staff needed, since system can be handled by the surgery team alone



DIVERSE PROJECTION OPTIONS WITH THE PHOENIX 3000



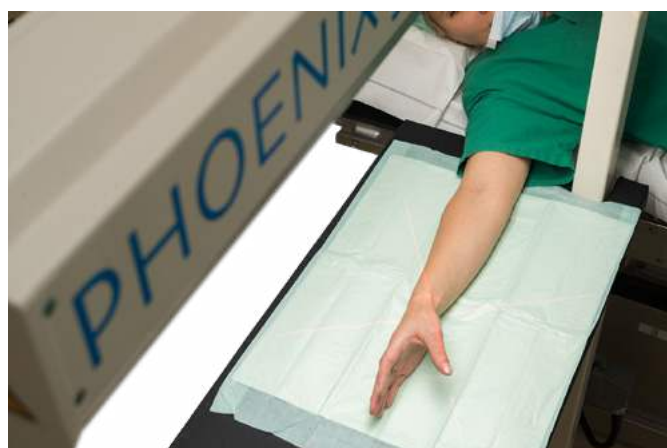
POSSIBLE WITH THE PHOENIX 3000



SKY VIEW



DISTAL RADIUS FRACTURE



LATERAL VIEW OF THE WRIST



PALMAR VIEW OF THE INDEX



DISCOVER THE PHOENIX 3000 NOW!

SIMPLY SCAN QR CODE AND
WATCH USE IN THE OR



Allersberger Straße 185 / A7 · 90461 Nürnberg (Germany)
Phone +49 911 4244967 · **Fax** +49 911 4244968
E-Mail info@medi-x.eu · **Web** www.medi-x.eu