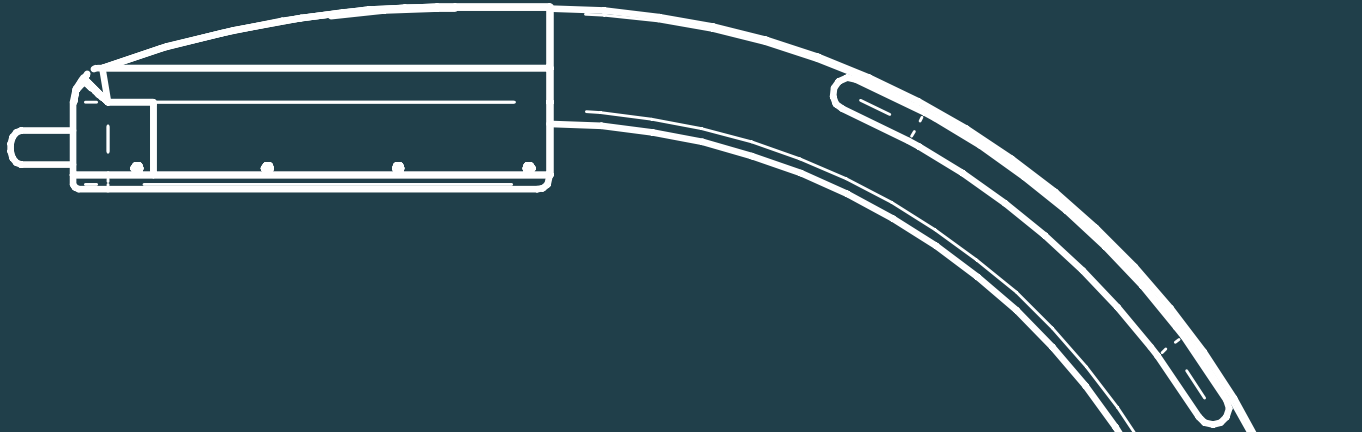
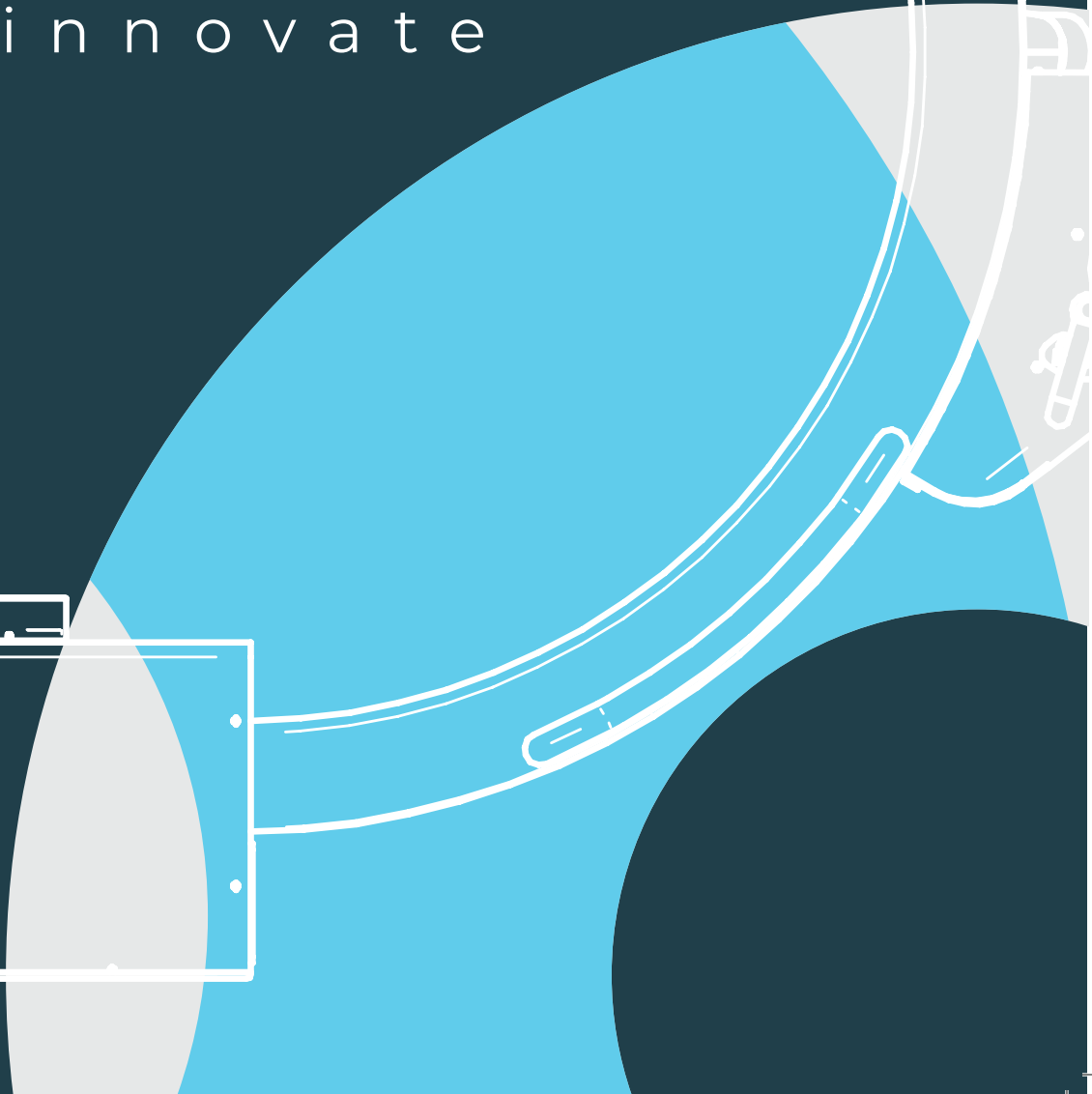




unico  
born to innovate

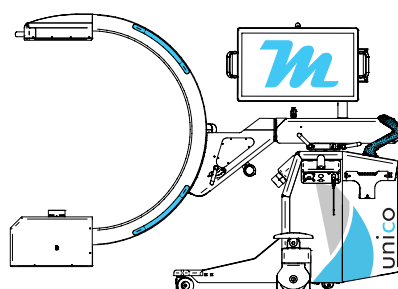




The **idea** that marks the  
times is the one that  
**ANTICIPATES THEM**

**Innovation** is the result of a tried and tested way of working  
and thinking generated from a deep understanding of the  
needs of the times and of those who use the equipment.

**FUTURE ENVISIONED, INNOVATION DELIVERED**



# WHO WE ARE WHAT WE DO

Focused in the electro-medical device field, we create **cutting-edge**, tailored solutions and **systems** while distributing top-tier, state-of-the-art equipment meticulously **handmade** and entirely **engineered** and **produced within our facility**. Based in **Mirandola**, in the northern province of Modena, we thrive at the epicenter of **Europe's most crucial biomedical hub**.

With over **30 years of experience**, our exceptional team, led by Massimo Tomasi, brings unique expertise. His visionary approach, complemented by numerous papers and patents, defines and shapes our **distinctive corporate identity**.

## OUR DNA IS DEFINED BY

### 01. Research & Development

Our unwavering **dedication in research and development** positions us as proficient partners in the realm of diagnostic and surgical radiology.

### 02. Unique in Italy

Our exclusive ability to **independently manufacture C-arm systems** in Italy is attributed to strategic preparation and thorough continuous training of our workforce. **We meticulously design, develop, create and assemble every component of our equipment** - from mechanical parts and electronics to imaging software, DICOM services and the revolutionary **high-voltage generator, Planarix™**.

Our commitment to in-house production reflects our **dedication to innovation and design excellence**.

### 03. Shared knowledge

Our strategic management approach promotes **teamwork** and skill exchange, cultivating a collaborative environment. Mutual skill sharing enhances our understanding of diverse manufacturing processes and the distinctive characteristics of each component in the devices we produce. **We envision, innovate and rapidly adapt to market dynamics and the evolving needs of our clients.**

### 04. Exploration

In the 90s, the **Micronica** team embarked on a journey of exploration, pioneering the creation of the **first innovative C-Arm using Windows NT**. Exploration, to us, means **understanding the world** observing global needs and expectations. **Our commitment lies in anticipating future needs and offering solutions proactively.**

unico

# SHINE EVERYWHERE

Equipped with the latest  
FPD technologies  
aSi, **CMOS** & **IGZO**

---

## All-in-one design

to fit even in the most compact  
and crowded operating room

---

Color-coded scales and handles  
for **clear and unmistakable**  
**communication**

X-Ray tube housing to ensure  
**high-end performance**  
**and system reliability**

---

**Optimized dose and image**  
**quality** for acquiring detailed  
images in all conditions

Double front wheel for better **weight**  
**distribution** and manoeuvrability

---



unico means the quality of being unique, singular, unparalleled or distinctive.

With this vision we crafted a device designed to **excel across multiple clinical applications**, characterized by its innovative all-in-one **compact** design, **high power** and an **intuitive** full-touch screen user interface.



**Articulating monitor support** for operator's optimal visibility in any situation

Intuitive user experience thanks to the full **touch-screen** system interface

**10kW pulsed high voltage generator** **PLANARIX™**

**Multidisciplinary excellence** without compromise on image quality and performances

**Double - sided brakes**

# LOOKING BEYOND HOW **WE** WORK



## Creation

From mechanical and electronic components to software and firmware, **we proudly design, implement and install each part of our C-Arm with care and passion.**

**Our approach goes beyond mere assembly**, we have complete control over our products **enhancing quality and efficiency.**



## Test

Every product undergoes **rigorous internal testing** before reaching the customer, ensuring the utmost **reliability and quality** in each delivered equipment.



## Research and Development

Through continuous **investments in research and development**, we strive to discover **innovative methods** that consistently **elevates the quality** of our equipments.



## Training

**Micronica** conducts **trainings** to provide **users** with **full knowledge of the system** and **technicians** capable of efficiently address system issues, **minimizing service interruption times.**



## Certification

We consistently stay **updated** with the latest standards and **in compliance** with the current **national and international regulations.**

# DETAILS THAT MAKES THE DIFFERENCE

## A.I.R.E.

### AUTOMATIC INTELLIGENT RADIOGRAPHIC ENGINE

- ▶ Fast Startup and **ready to go**. No need for additional settings
- ▶ Internally developed **software for image detection** to recognize the anatomy and **automatically select optimal X-ray settings** while minimizing overall patient and operator dose
- ▶ Full touch-screen **intuitive** user interface for **smooth clinical workflow**



## DESIGNED AROUND YOU

### GET ANYWHERE WITH EASE!

Unlock the wheel brakes from both sides for **complete freedom**. Steering handles features a dedicated thumb cut-out for **optimal ergonomics**.

**Cable pushers** on each wheel prevents entanglement with wires and floor obstacles.



## CUSTOMIZED MECHANICAL DESIGN

### EXCELLENCE AT YOUR SERVICE FOR ENHANCED EFFICIENCY

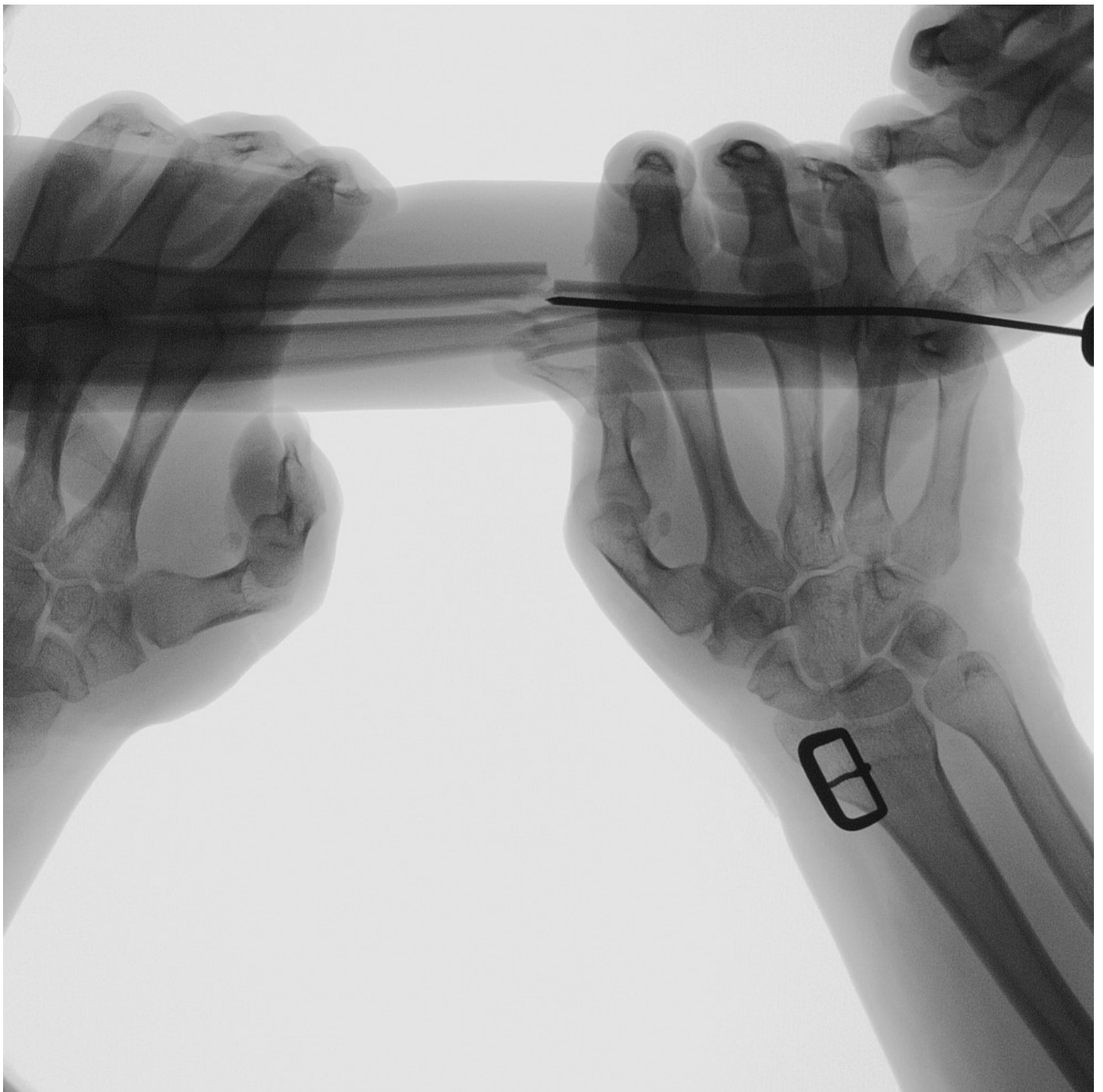
Enjoy a vertical 450 mm motorized excursion and 225 mm longitudinal sledge excursion: approach closely without overcrowding the sterile area. **Perfectly balanced wide C-Arm** with 912 mm of free space and a depth of 71.6 cm ensuring **top of the range versatility**.



**SCAN** THE  
**QR code**  
to discover  
**ALL**  
DETAILS

# unico

unique next-gen integrated cross-functional opportunities



# UNCOMPROMISING PERFORMANCE

## Multidisciplinary

Modern surgery requires **rapid response times, versatility, reliability** and **minimal equipment footprint**.

**unico** does this and **MUCH MORE!**

Its **intuitive design** ensures **ease of use** in any situation and suits a vast array of applications: from pain management to orthopedic surgery, **handle every challenge without compromising on power, image quality, dose control and reliability**.

## Efficiency in the Surgery Room

The idea behind **unico** is to offer a product **easy and immediate to use** yet **capable of satisfying the most specific needs** in terms of image quality and dose control.

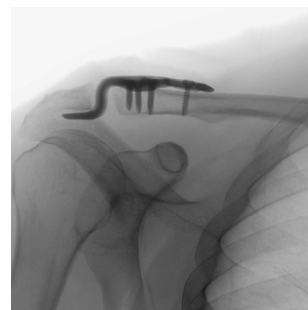
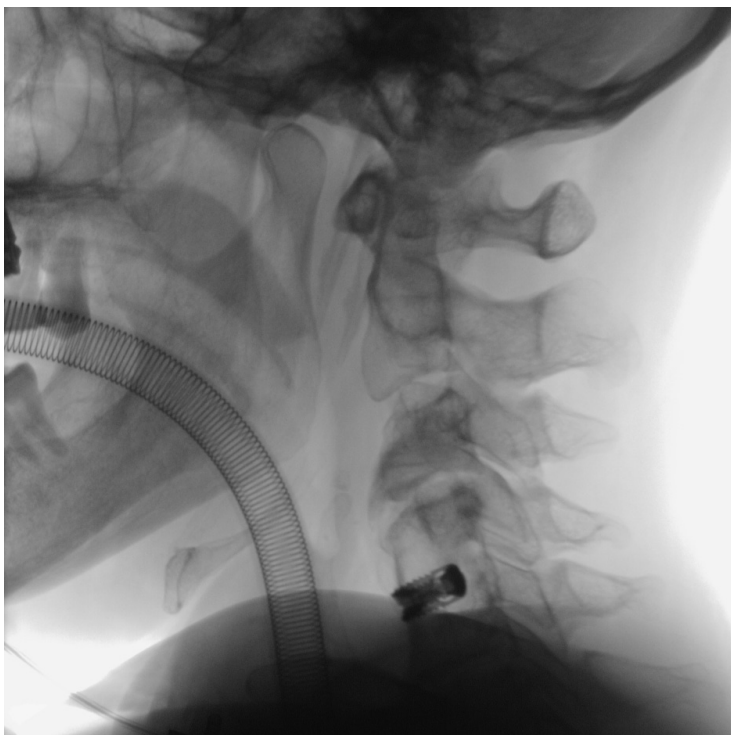
Immerse yourself in a synchronized and **efficient clinical workflow** with a fully **touch-screen interface** on both the user console and live monitor. Control system settings, collimator and DICOM functionalities with a single touch.

## Advanced Vision

Medical Software with Integrated **Artificial Intelligence**

Revolutionize medical practice with our proprietary image acquisition and digitization software, driven by internally developed innovative **Artificial Intelligence**. The algorithm **automatically detects the anatomy** based on input dose, optimizing the RX parameters for **superior image quality in any context** while always ensuring compliance with the A.L.A.R.A. dose principle.

Our **internally developed and produced** HV-Generator **PLANARIX™** delivers extremely short square wave pulses to the X-Ray tube: the synergy between these two systems, along with the proprietary **intelligent anode speed control**, ensures **sharp images and system reliability**.



We meticulously  
**DESIGN**  
**develop** CREATE  
and assemble  
**EVERY**  
component of our  
equipment

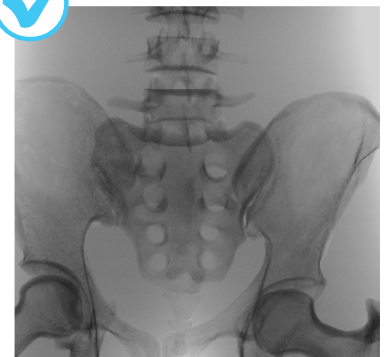
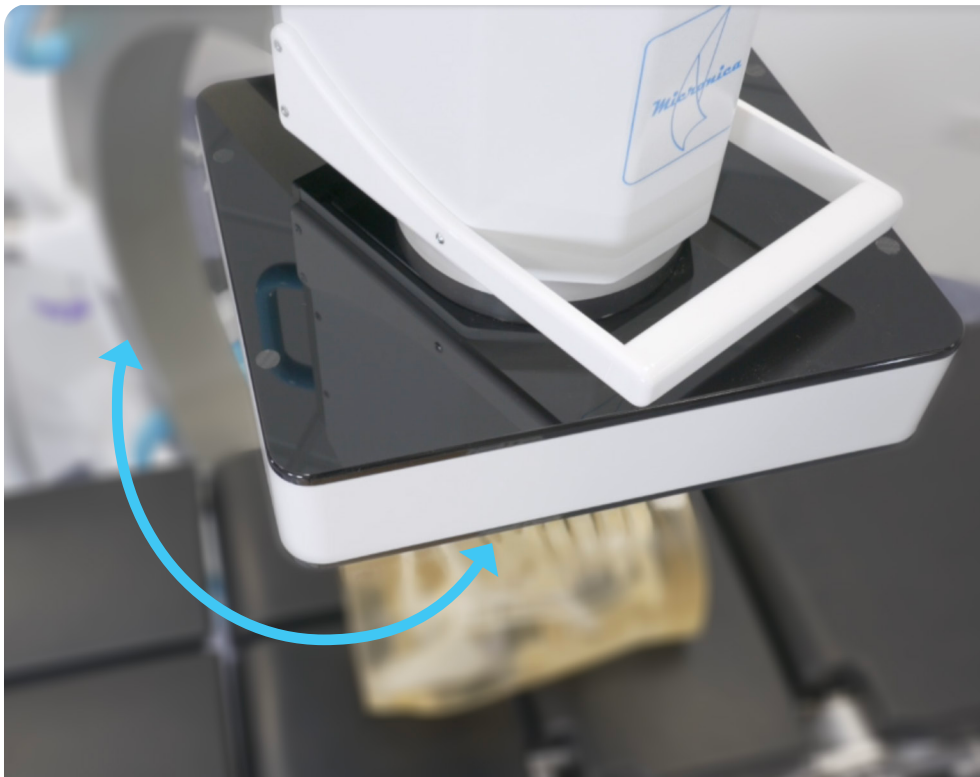
# IMAGE AT THE CENTER

## FLAT PANEL DETECTOR ROTATION

As **modern operating rooms** become smaller, the number of equipment inside is increasing. In addition to the need for increasingly **compact devices**, this presents **challenges in optimal positioning around the operating table**.

The **digital rotation** of the image is the simplest solution for this challenge. However, with modern square FPD detectors, when rotation is applied, corners are lost, resulting in a **smaller displayed image area and fewer details**.

**MICRONICA's** innovative solution introduces **cath-lab features into a mobile C-Arm**: mechanical **detector rotation**.



- ▶ **Eliminate the need to shift the entire room** or digitally rotate the image to align with the surgeon's preferred viewing angle
- ▶ Patient visualization on the monitor becomes **independent from the C-Arm position** around the surgical table, while always maintaining the **full panel acquisition area**
- ▶ Achieves up to **20% more image area** compared to standard systems with digital rotation

We **envision**  
**INNOVATE**  
and rapidly **ADAPT**  
to **MARKET DYNAMICS**  
and the **evolving needs**  
**OF OUR CLIENTS**

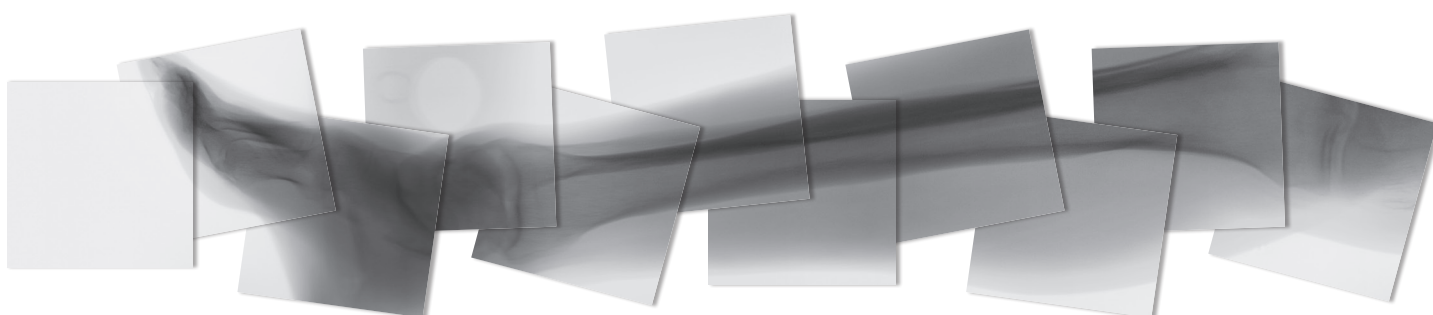


# EXPAND YOUR VISION

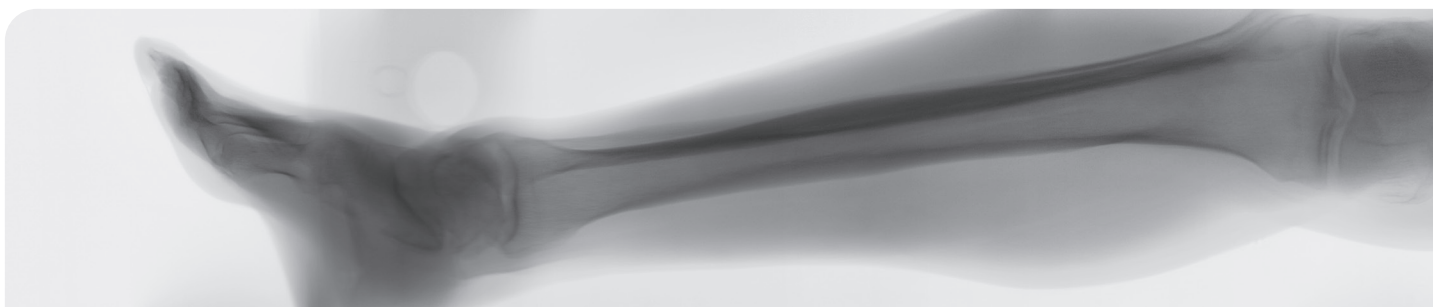
## STITCHING

Typically used in larger equipment such as RF systems or Cath-labs, specialists can generate a **more detailed and expansive view of the examined anatomy.**

This is particularly useful for visualizing large structures or areas that exceed the limitations of a single scan or the size of the detector itself. **Micronica** has integrated this capability into a portable device, providing users with an even **broader range of applications.**

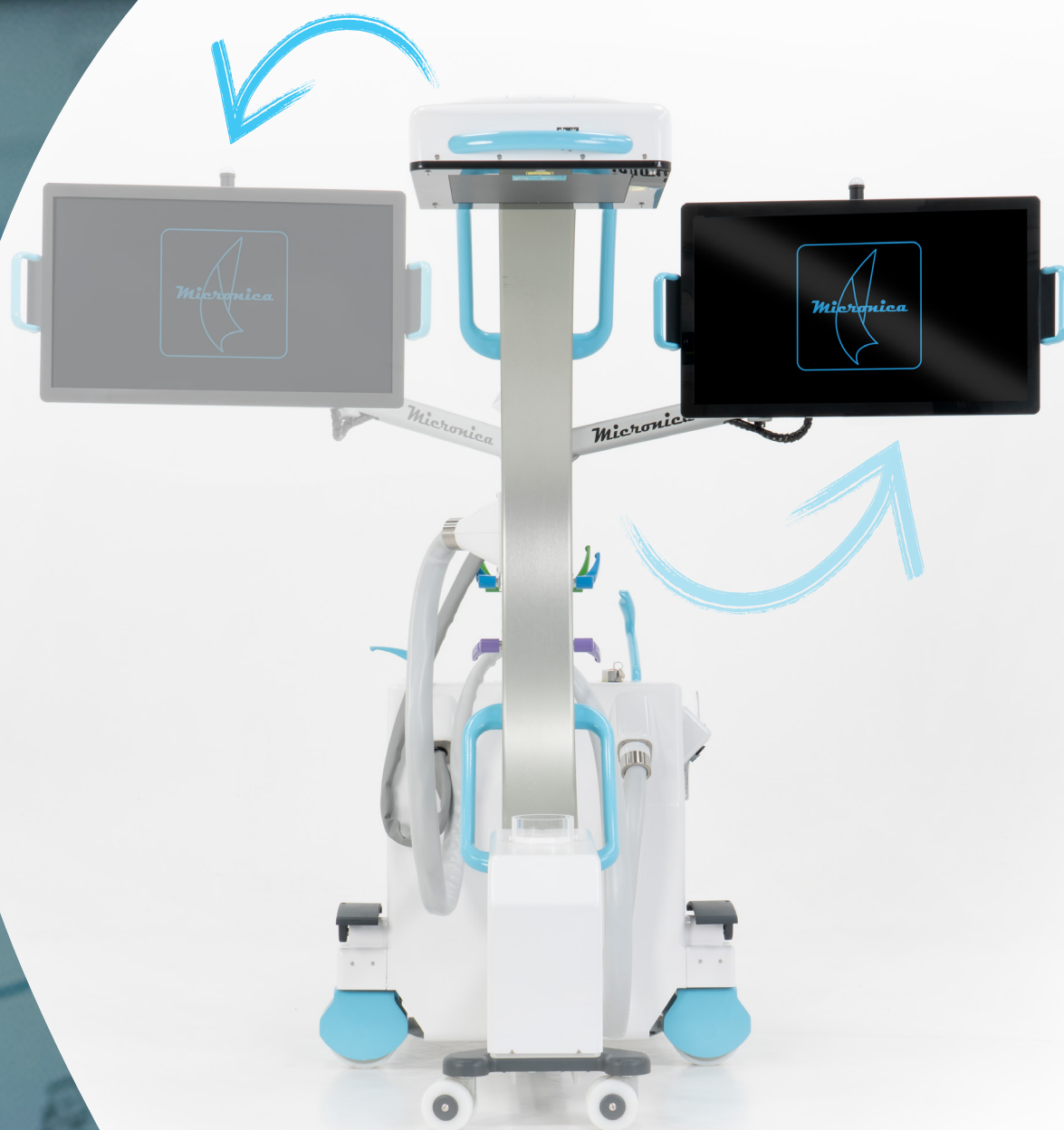


Our digital imaging software integrates advanced algorithms capable of **combining a complex dynamic acquisition into a single wide image, without any synchronization** between the C-Arm and the surgical table.



This is not the result of a simple merge of multiple static images, but rather a **real-time process** involving the coupling of **thousands of frames.**

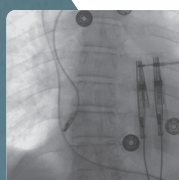
This feature provides a **comprehensive view of the intervention area**, assisting surgeons in strategic planning and precise identification and check of the treated area.



## CLINICAL APPLICATIONS



Orthopedics



Emergency procedures



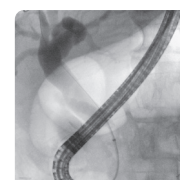
Spine surgery & pain management



General surgery



Urology



ERCP



# SYSTEM SPECIFICATIONS

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Source Image Distance (SID) | 111,2 cm (43.7")                                |
| Free space                  | 91,2 cm (35.9")                                 |
| C-arm depth                 | 71,6 cm (28.18")                                |
| Orbital                     | 147° (-90° / +57°)                              |
| Horizontal travel           | 22,5 cm (8.8")                                  |
| Vertical travel             | 45 cm (17.7")                                   |
| Lowest lateral position     | 106,4 cm (41.8")                                |
| Swivel range                | 21° (± 10.5°)                                   |
| Pivot                       | 480° (± 240°)                                   |
| H x W x D of C-arm frame    | 156,5 x 78 x 219 cm (61.6" x 30.7" x 86.2")     |
| Weight                      | 330 kg                                          |
| Power supply                | 230 Vac (±10%) 50/60Hz                          |
| Power                       | 10 kW, pulsed HV Generator + X-ray tube housing |
| kV Range                    | 40 - 120 kV                                     |
| Max Current                 | 100 mA                                          |
| Display                     | 27" full HD touch-screen display                |

| aSi           | CMOS          | IGZO          |
|---------------|---------------|---------------|
| 23 cm x 23 cm | 22 cm x 22 cm | 23 cm x 23 cm |
| 30 cm x 30 cm | 30 cm x 30 cm | 31 cm x 31 cm |

## ADVANCED FEATURES and OPTIONALS

- ▶ **Advanced Image Process and Acquisition** thanks to anatomic tables, recursive filter and fps selection, dynamic acquisition and measure tools for **enhanced image quality**
- ▶ **Square collimator** and filters available in different combinations to match every needs and application, with **preview function** to position the collimator dose - free
- ▶ **Wireless footswitch** and **printer**
- ▶ System-integrated detector and tube-side **laser targeting device**
- ▶ Full connectivity with USB 3.0, LAN and **DICOM 3.0** integration entirely developed by **Micronica**
- ▶ **DAP** Dose Area Product device

# MICRONICA WORLDWIDE

## Experience leaves Its mark

Since the beginning of our journey, we've meticulously observed the world, dedicating great care to develop innovative systems and equipment. With our **visionary approach**, we proudly distinguish ourselves as the premier choice for fluoroscopy partnerships, possessing an international vision driven by **attitude and curiosity** to comprehend the world and communicate in its diverse languages.

**Our commitment lies in anticipating future needs and offering solutions proactively.**

We shape the future through **sustainable investments in research and development**, coupled with the valuable contribution of all the men and women working with us, by identifying **new ways to enhance the quality of our systems** and **actively participating in the evolution of the scientific community**.

**Our ideas, solutions and projects support and facilitate cutting-edge improvements in surgical procedures, making the invisible visible.**

**Today**  
**90%**  
of Micronica's  
**PRODUCTS**  
are **EXPORTED**



unico



Cod. 9005430201

Micronica srl is constantly improving its products and reserves the right to change system specifications and data without prior notice. Presented data are subject to tolerances. Country specific data and options may apply.

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