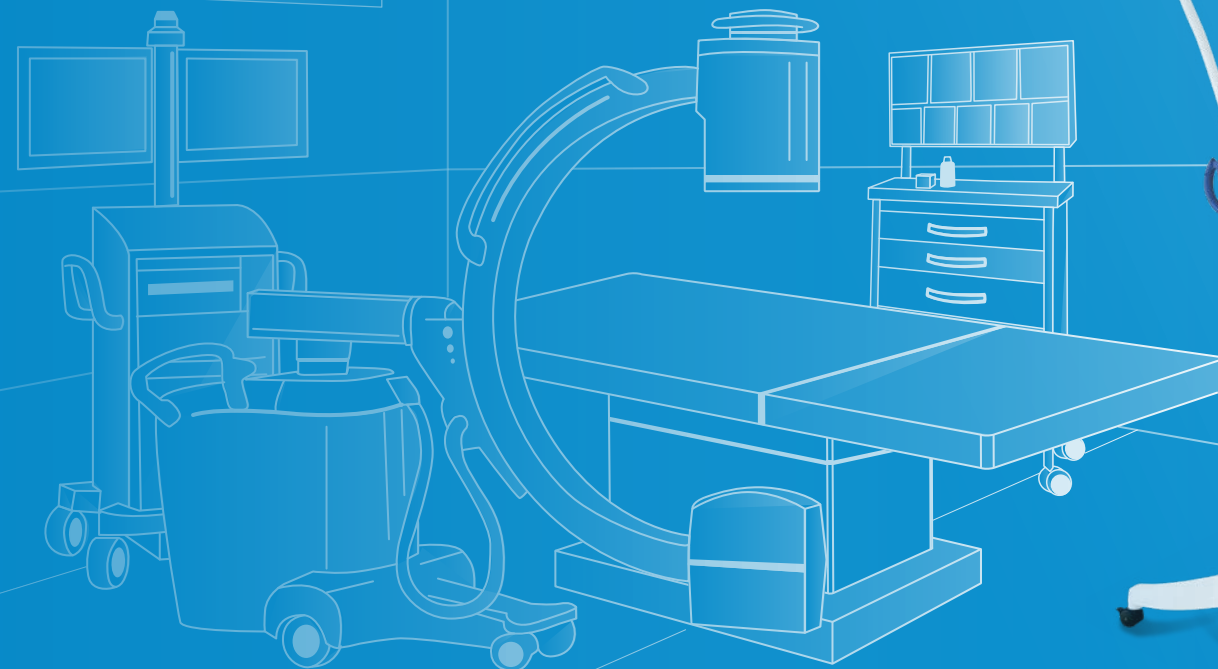


atlas

NAVIGATION SYSTEM
FOR TRAUMA SURGERY



MASMEC
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ATLAS AND THE POWER OF NAVIGATION

Atlas is a navigation system that facilitates fracture fixation, using virtual reality to address the limitations of traditional techniques.

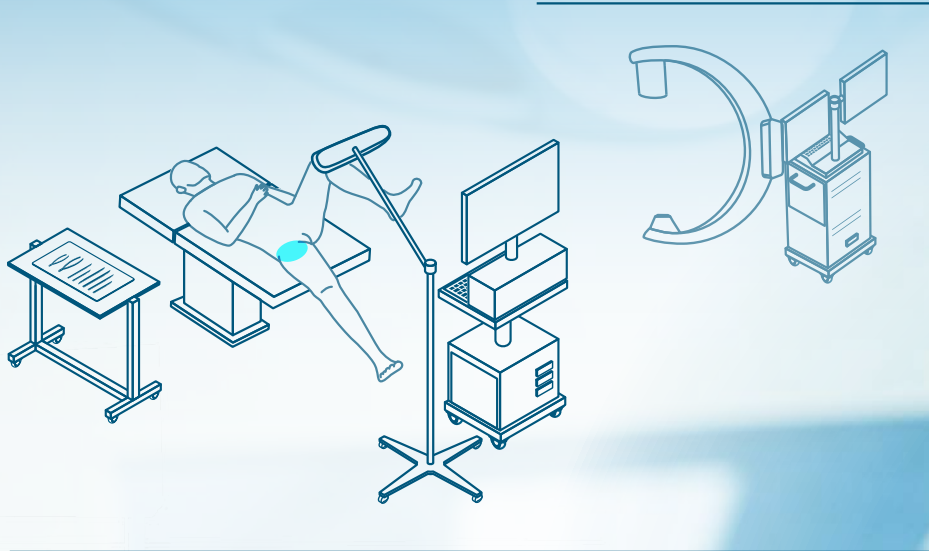
Atlas acquires fluoroscopic images and overlays 3D models of surgical instruments and implants in real time.

This system enables surgeons to perform procedures with precision and ease, offering significant advantages in accuracy, procedural standardisation, reduced operative time, and a decrease in exposure to ionising radiation.

FIXATION OF LATERAL FRACTURES OF THE PROXIMAL FEMUR

Atlas is used in conjunction with Citieffe's EBA2 nailing system implants and instrumentation for the fixation of lateral fractures of the proximal femur.

FEATURES AND BENEFITS



Operating room setup

Ease of use

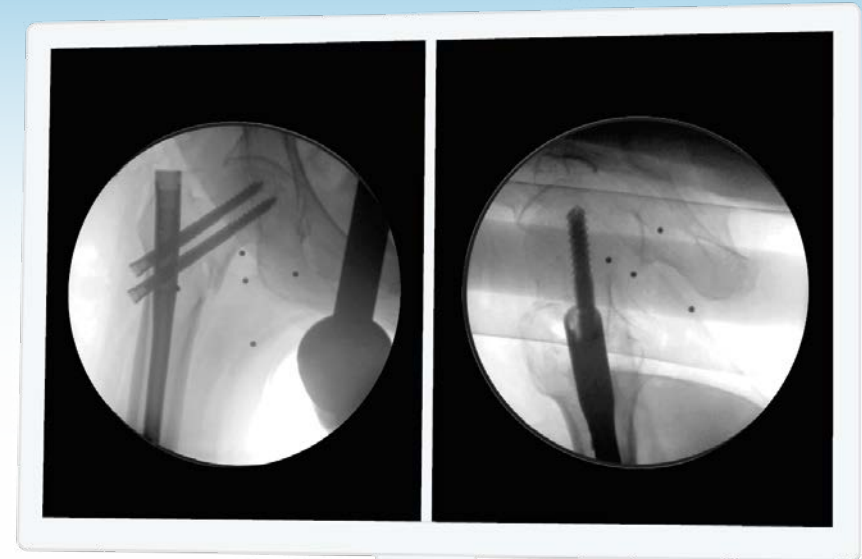
Atlas replicates every surgical phase, displaying them in real time through a clear and intuitive interface. It provides the surgeon with total procedural control and the ability to operate without repeated fluoroscopic imaging.



FEATURES AND BENEFITS



Comparison between navigation and post-operative results



Tracking accuracy

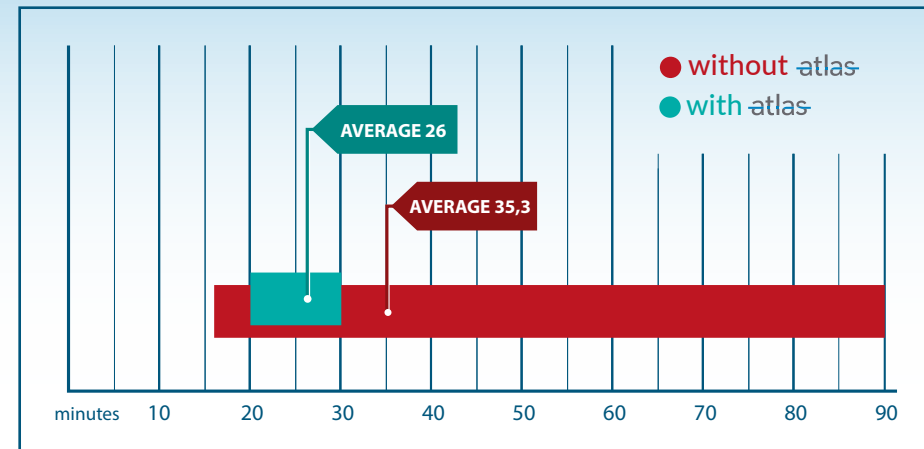
Atlas ensures precise alignment between virtual and real-world scenarios, utilising an infrared tracking system and sensors applied to the fluoroscope, surgical instruments, and the patient.

FEATURES AND BENEFITS

Standardisation and reduced operative time

The use of the Atlas system allows for the standardisation of surgical procedures, contributing to consistent and reduced operative times.

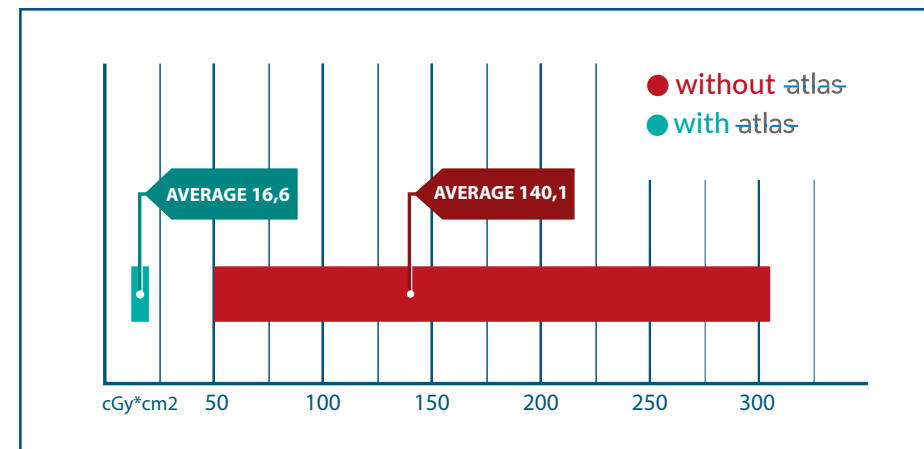
Operative times: standard technique vs. navigated technique*



Reduction of ionising radiation dose

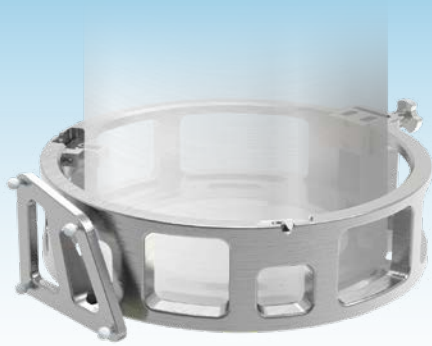
Atlas requires only two fluoroscopic images (AP and axial) acquired following fracture reduction; consequently, the ionising radiation dose is significantly reduced for both the surgical team and the patient.

Ionising radiation dose: standard technique vs. navigated technique*



* Caiaffa V, Leone A, Manca M, et al., The role of computer-assisted navigation in intramedullary nailing of pertrochanteric fractures: a prospective multicentre comparative study between EBA2 standard and EBA NAV nails. *Lo Scalpello Journal* 2020;34:154-9

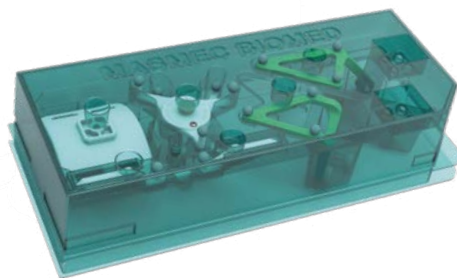
SYSTEM COMPONENTS



C-arm tracker



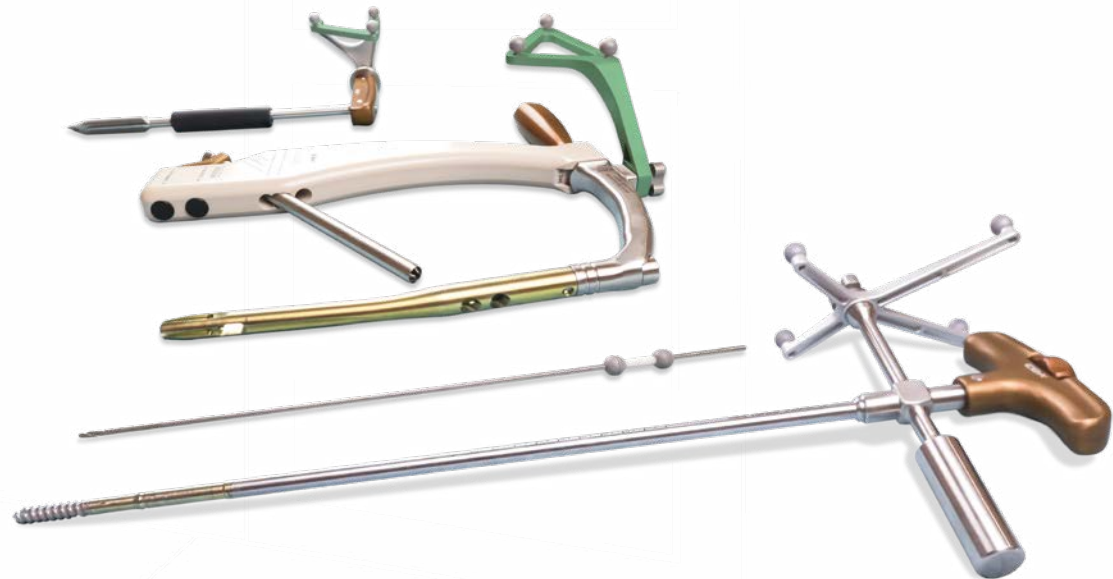
Navigation pointer



Single-use sterile kit for instrumentation and patient tracking

Atlas comprises a mobile workstation with a monitor and dedicated software, and an infrared camera.

The system utilises a C-arm tracker to enable tracking of the image intensifier, alongside a navigation pointer and a single-use sterile kit to track the surgical instruments and the patient.



Navigation-ready surgical instruments

Manufactured by

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