

Laser Robot Arm

Faster.
Simpler.
Smarter by design.



A laser co-pilot for your CT/CBCT.
You drive. We guide.



Clinical Applications

Laser Robot Arm uses real-time imaging to deliver precise laser guidance for minimally invasive procedures.

Spine & Pain Management

The only robotic solution designed to guide infiltrations.

Ready in seconds – no calibration, no setup, no delay.

Instant laser guidance for epidural, periradicular and facet injections.

As intuitive as freehand – faster, simpler, smarter.

A Platform Built For More

Oncology, Biopsy & Percutaneous Procedures

RFA, MWA, Cryo, IRE, biopsies, drainages and punctures - all guided under full physician control.

One system. Multiple applications.

Same workflow.

Same millimetric precision.*



Compact, lightweight & quick setup.

No additional cameras.

Compatible with any CT/CBCT.



The Complete Atlas Laser Navigation Platform

Patient Tracker

Smart. Simple. Reliable.



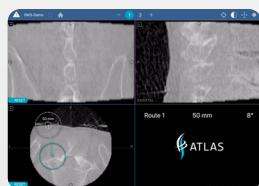
Real time AI-based patient motion tracking.

Compact, ready in seconds.

Single-use and sterile.

3D Navigation Software

Surgical intelligence engine for daily workflow.



Intuitive tablet interface. Multi-trajectory planning and tracker management.

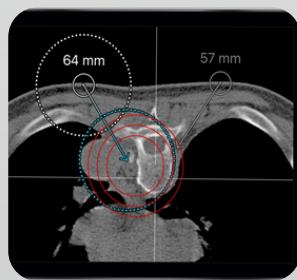
Workflow – in 4 steps from scan to treatment

PLACE – Attach the single-use patient tracker.

PLAN – Define trajectory on CT/CBCT images with 3D software.

ALIGN – Laser projects entry point and angle on the skin.

TREAT – Advance the needle along the laser beam under physician control.



See it in action: scan QR for the workflow demo

"The robotic navigation laser has significantly improved my procedures through precise multi-level treatment and reduced radiation exposure – resulting in more efficient workflows and faster recovery."

– Prof. Dr. Musa Citak



Scan the QR code to watch Prof. Citak's interview and see the system in action.

CITAK

Gesundheitszentrum

"After the third injection, we achieved significantly better results with the Laser Robot Arm compared to the freehand technique, which can be attributed to its higher precision."

– Prof. Dr. Fischer



Scan the QR code to check further feedbacks of renowned professors.

 DEUTSCHES
SCHMERZZENTRUM
DARMSTADT
PRIVATPRAXIS



Faster: Up to 45% faster procedures* – more patients, same resources.

Simpler: Place. Plan. Align. Treat. No clutter. No stress.

Smarter: Up to 52 % less X-ray exposure** – intuitive, fast, consistent.



More information at www.atlas4d.de

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Clinical Evidence***

- *Moser T. et al., *European Radiology*, 2012
- **Anonymous et al., *European Radiology*, 2013
- Kim YJ. et al., *Korean Journal of Radiology*, 2015
- Gruber-Rouh T. et al., *European Radiology*, 2015

*** Performance gains based on peer-reviewed laser navigation system studies; Atlas Laser Robot Arm applies the same navigation principle.