

# Esaote enhanced ergonomics

## Probe Design



During real-time acquisition, the ultrasound probe is a continuously handled interface for the operator – one hand uses the ultrasound system, the other CONSTANTLY holds the US probe.

The possibility to release hand stress and fatigue, to change grip and handling of the probe, to be able.

Most common areas of discomfort and pain for the ultrasound user are:

- Shoulder
- Wrist
- Hand

Analysis of these problems has led to the creation of Esaote Enhanced Ergonomics Probe solutions:

Ultrasound probes are lightweight and have appleprobe ergonomics to reduce any physical stress to a minimum, even for long examination sessions.

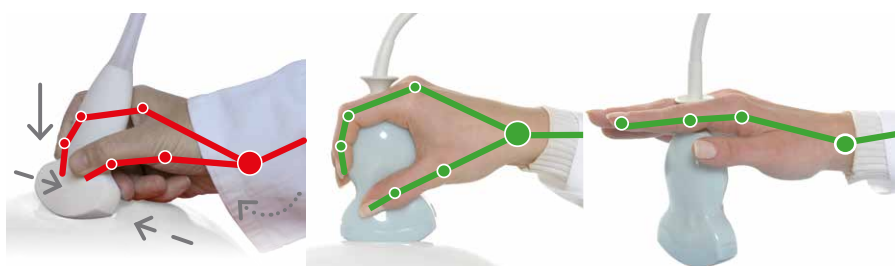
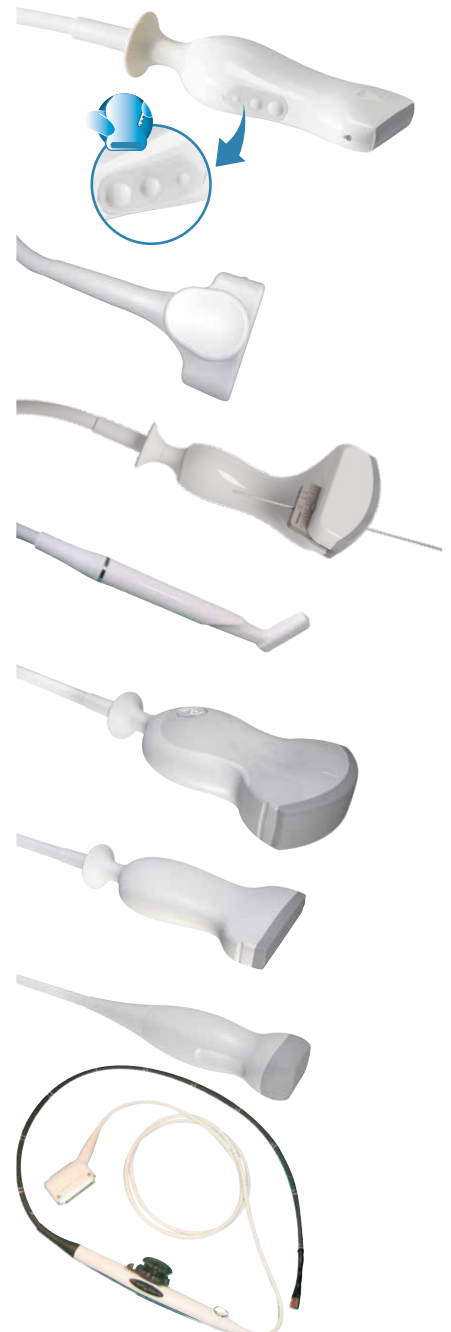
Ergonomic controls where needed: programmable controls on the probe body to be able to quickly activate multiple pre-programmed functions.

Special probes are an ergonomic solution for even the most demanding applications:

- Surgery intraoperative T-shaped linear probe
- Interventional 0° convex biopsy probe
- High-frequency hockey stick linear probe for rheumatism, MSK, vascular, surgery

Esaote offers a wide range of probes for general imaging, cardiovascular, POC, OB-GYN and interventional purposes.

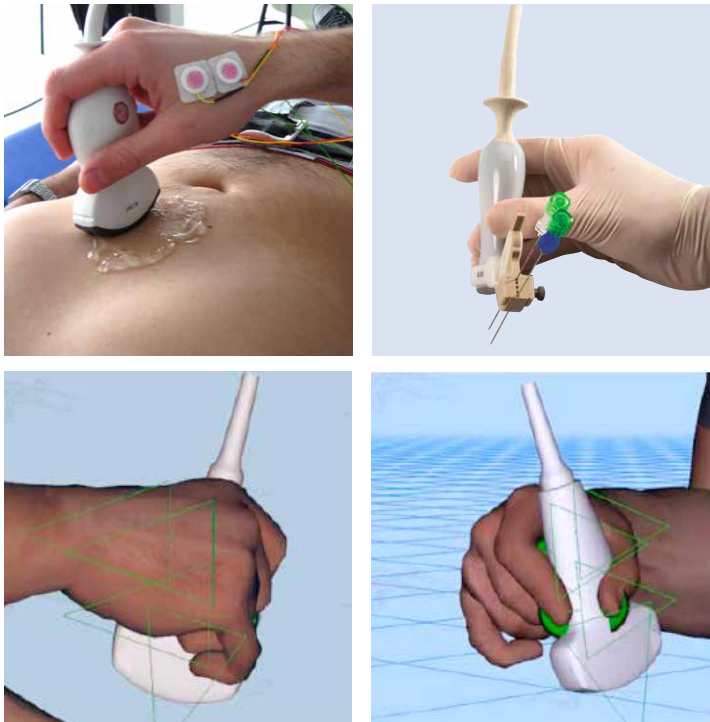
Esaote appleprobe's patented and award-winning design enable innovative probe grasps for reduced fatigue and improved comfort.



Conventional grip    appleprobe grip

Esaote appleprobe design transducers reduce the muscle strength used between 30%\* and 70%\* compared with traditionally-designed transducers, depending on the selected application

The most advanced technologies have been used to design Esaote transducers, involving motion analysis, superficial electromyography and digital human modelling. A large number of medical doctors and sonographers all around the globe have gathered valuable input for any clinical application and even the most demanding clinical needs.



Minimisation of muscular stress using Esaote innovative appleprobe-designed transducers compared with traditionally designed probes represents a valuable and tangible reduction in the possible causes of WRMSD.

There are ergonomic improvements for the patient related to the reduction of invasive transducer dimensions, i.e. transesophageal probe shaft diameter, endocavity probe body dimension and use of soft acoustic lenses as probe cover.

A large selection of disposable and reusable biopsy kits for any application.

Esaote Enhanced Ergonomics: Easy-to-use high level technologies for less user stress and more energy to focus on the patient.

Enhanced diagnosis confidence and less concentration demanded when handling the probe.

\* Data supported by scientific papers

## Thank you for considering Esaote

Where listen to your needs and work every day to provide the most advanced technologies and the most innovative design for you to excel in the care of your patients.

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