Ultrasound sensors are used in many industrial measurement applications. Best interaction between sensor, measuring medium and object under given environmental conditions (pressure, temperature, medium) are the base for high-quality and safe signal analysis. We offer development services and production technologies up to 50 MHz for all type of media in the following fields:

- airborne transducers (up to 2 MHz)
- level measurement
- flow measurement
- process control (e.g. concentration)
- geometry measurement
- object detection

**Power Ultrasound Transducers**

Applications of ultrasound where high-acoustic intensity is inserted in a medium are called “high-power applications” (e.g. cleaning or welding). We offer development services and production technologies for high-efficient oscillation systems e.g.

**Piezocomposite Material**

Major parameters of ultrasound transducers are sensitivity and bandwidth. A piezocomposite is a diced and filled modification of a solid piezoceramic with a high coupling coefficient and low acoustic impedance. This leads to a material with high sensitivity and high bandwidth for low-noise, short-pulse transducers. A high axial resolution or high contrast is only one advantage of such a transducer. This also means a short ringdown time for measuring targets close to the transducer. IBMT offers piezocomposites as raw material for your NDT or medical transducers. We offer composites in a frequency range between 50 kHz and 20 MHz. Our composites come with solderable multilayer electrode ready for the integration in your transducer.