

Download Practical Guide To Ultrasonic Testing

What is Ultrasonic Testing? Ultrasonic is a high frequency of sound pulses that are emitted from a transducer above a sample. The sound waves propagate through the sample, and reflect at interfaces. Ultrasonic welding is an industrial technique whereby high-frequency ultrasonic acoustic vibrations are locally applied to workpieces being held together under pressure to create a solid-state weld. It is commonly used for plastics and metals, and especially for joining dissimilar materials. In ultrasonic welding, there are no connective bolts, nails, soldering materials, or adhesives necessary ... The need for competent personnel to perform NDT tasks is paramount in all industries. In order to determine competency, systems have been devised to ensure that NDT personnel have the proper training, have passed written and practical examinations, and have enough experience to properly perform NDT tasks using the applicable test method or technique. STAKING GENERAL As with ultrasonic welding and inserting, ultrasonic staking employs the same principles of creating localized heat through the application of high-frequency vibrations. Many staking