



An ultrasonic booster is a mechanical device designed to increase the amplitude of ultrasonic vibrations generated by an ultrasonic transducer. It works by converting the low-amplitude, high-frequency vibrations produced by the transducer into higher-amplitude vibrations, which are then transmitted to the ultrasonic horn or sonotrode.

FEATURES

- ⦿ Boosters can increase or decrease the amplitude of the ultrasonic vibrations, enhancing the effectiveness of the ultrasonic process.
- ⦿ Typically made from high-strength materials like titanium, aluminium, or steel to withstand the high-frequency vibrations and stresses.
- ⦿ The shape and size of the booster are carefully designed to ensure efficient transmission of ultrasonic energy
- ⦿ Ultrasonic boosters are designed to be easily mounted onto ultrasonic stacks (comprising the transducer, booster, and horn).

ADVANTAGES

Enhanced Performance : By amplifying the ultrasonic vibrations, boosters ensure better performance in various applications.

Versatility : They can be designed for specific frequencies and amplitude requirements, making them adaptable to different ultrasonic systems.

Durability : Made from robust materials, they offer long-lasting performance even under high-stress conditions.

APPLICATION

- ◆ **Welding and Cutting** : In ultrasonic welding and cutting applications, boosters help achieve the necessary amplitude for joining or separating materials efficiently.
- ◆ **Medical Devices** : Employed in medical ultrasonic equipment, such as surgical instruments, for precise and effective performance.
- ◆ **Sonochemistry** : Boosters are used in sonication applications to improve the cavitation process, enhancing chemical reactions.



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