

Ultrasonic Horns

Horn Theory

The ultrasonic horn, usually one - half wavelength long at a resonant frequency, transfers mechanical vibratory energy from the transducer to the workpiece.

The ratio of a horn's output amplitude to its input amplitude is called "Gain". The horn amplitude required for a specific application is dependent on the type of plastic, type of operation, part geometry and joint design of the application.

Materials

Horns are made of materials which have good combination of acoustical and mechanical properties.

Titanium

Aluminium Alloy

Steel

Horn Frequency

15KHz, 20KHz, 30KHz, 35KHz & 40KHz

Horn Types

Catenoidal



Exponential



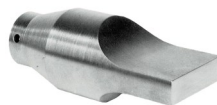
Circular Solid



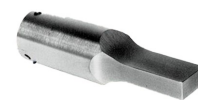
Circular Slotted



**Rectangular
(Round Corners)**



**Rectangular
(Square Corners)**



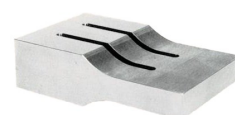
Circular Hollow



Circular High Gain



Rectangular Slotted



NOBLESONICS PVT.LTD.

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Factory Address:-

Unit No.133, Raheja Tesla 1, Navi Mumbai TTC Industrial Area of MIDC,
Juinagar, Navi Mumbai - 400 705

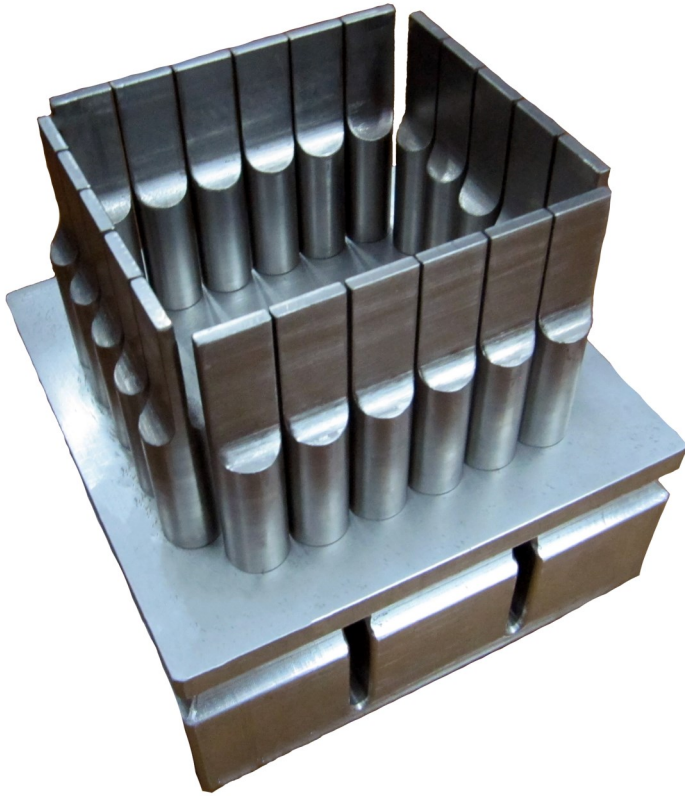
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Composite Horn



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