

SEMI-AUTOMATIC REDDY TUBE (SHOCK TUBE)

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About us

YELAGIRI Technologies, incorporated in 2021, provides unique scientific solutions to both academic and industrial requirements in all walks of life.

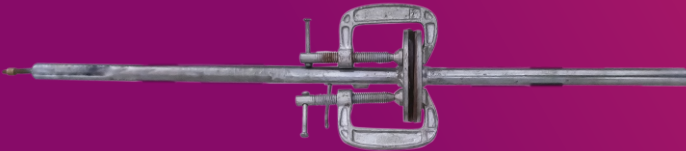
Currently, YELAGIRI has extended to various fields such as material science, electronics, civil engineering, nanoscience, genetic engineering, biomedical engineering, veterinary, food processing etc. YELAGIRI has managed to have a global reach in educating and spreading the benefits of safe and controlled use of shock waves.

Shock Waves

Shock wave is one of the non-linear high pressure phenomena that can be produced by sudden release of energy within the span of a few microseconds and they are essentially used in multi disciplinary research fields such as aerodynamics, geophysics, medicine, material science, engineering and chemical kinetics.

Shock Tube

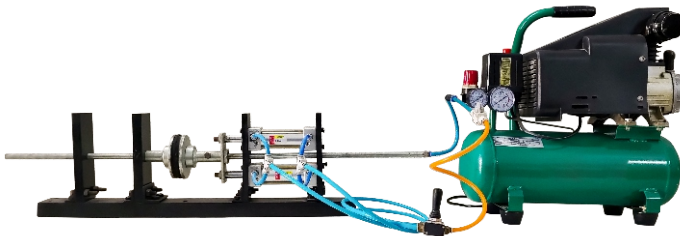
Shock tube is a simple and efficient tool to generate controlled shock waves in laboratory. It consists of three sections: driver section (high-pressure section), driven section (low-pressure section) and a diaphragm section which couples the other two sections. When the diaphragm ruptures, shock wave will be generated and travels through the driven section.



Manually Operated Reddy Tube

Semi-automatic Reddy Tube (Shock Tube)

Table top semi-automatic Reddy tube is the product of "Instrument Fabrication centre", Sacred Heart College Tirupattur . This shock tube is capable of producing 500 shock pulses per hour having Mach number ranging from 1 to 4.5 by suitable diaphragms. An air compressor is used to supply driver gas into the driver section.



Technical Specifications

- Driver and driven sections: Seamless SS tube
- Driver gas: Air
- Pneumatic Pistons : 40 mm bore
- Diaphragm : paper/plastic/metal sheet
- Operating pressure: 5 bar
- Sensor: Condenser microphones
- Maximum Mach number : 4.5
- Maximum pressure (P5): 15.6 MPa
- Maximum Temperature(T5): 3085K
- Total weight: 30 kg



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