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SPECIAL PURPOSE MACHINES (C €ACCREDITED), CNC COMPONENTS & SHEET METAL PARTS

COMPLETE TOOL ROOM & FABRICATION FACILITY IN HOUSE

1.   Technical Specification and Operation

The machine is called **VIBRATION TABLE (AS PER IS 17051:2018).**
This machine is used for performing vibration testing of bullet proof jackets.

3.1 Technical Data

MODEL	PS-046-2021
SUPPLY VOLTAGE	440 V AC,50 Hz ±5%
CURRENT CONSUMPTION	2.5 AMP
WATTAGE	750 WATT
CONTROL VOLTAGE	24V DC ±10%
WORKING FREQUENCY RANGE	2 TO 8 Hz
VARIABLE SPEED CONTROL	AC DRIVE
VIBRATION AMPLITUDE CONTROL	CAM BASED FIXED
VARIABLE CYCLE TIME	DIGITAL TIMER CONTROL
CAPACITY OF MACHINE	ALL SIZES OF BP JACKETS
DIMENSIONS	800 x 800 x 1400 mm

3.2 Purpose of Machine
This machine determine the ability of the Hard Armour panels to withstand the transport vibration.

VIBRATION TABLE IS 17051:2018
The vibration table is driven by Cam that ensures that the difference in surface level between the table extremities shall not exceed 25.4mm. The equi-length Chrome shafts transmit motion in such a manner that the top surface is always horizontal during vibration.

PROCEDURE
The Hard Armour Panel (HAP) shall be positioned strike face down and bottom of the plate parallel to the y-axis. The sample shall be placed in a wooden box 25.4 mm larger than the HAP in all directions which is then mounted on the vibration table. Vibration test shall be conducted with the use of a package tester that imparts a 25,4mm peak to peak, circular synchronous motion to the table at a frequency of 5Hz for 1 hour.

Operate the table at 5Hz (300 RPM) for the predetermined period of 1 hour.

The machine should preferably be located in a closed workshop environment in conditions of space and cleanliness suitable for the intended use.

- Any customization requirement viz Frequency, Amplitude can be done as per Standard requirement.

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