

**SOM-010    IMPACT TESTING MACHINE**

**DESCRIPTION :** The Charpy impact test, also known as the Charpy V-notch test, is a standardized high strain-rate test which determines the amount of energy absorbed by a material during fracture. This absorbed energy is a measure of a given material's notch toughness and acts as a tool to study temperature-dependent ductile-brittle transition. It is widely applied in industry

**RANGE OF EXPERIMENTS :**

1. To Perform Charpy and Izod Impact Test

**TECHNICAL DESCRIPTION :**

Pendulum drop angle :  $140^{\circ}$  for Charpy Test and  $90^{\circ}$  for impact test

Pendulum effective Weight : 21 kg

Pendulum impact energy : 300J for Charpy Test and 168J for impact test

Min. scale graduation : 2J

Distance of axis of pendulum rotation from Center of specimen/to specimen hit by pendulum : 815 mm

SERVICE REQUIRED : Foundation As Per Drawing

SPACE REQUIRED : 1.5 m. ( L ) x 1.0 m ( W ) X 1.7 m ( H ).

WEIGHT : @ 200 Kg