



SPECIAL PURPOSE MACHINE

- ✓ SPEED TEST RIG
- ✓ OVER SPEED TEST RIG
- ✓ BUST TEST RIG
- ✓ OIL PUMP TESTING MACHINE
- ✓ SHOCKER TESTING MACHINE
- ✓ VIBRATION TEST RIG DESIGN AS PER CLIENT REQUIREMENT



Fuel Tank Leakage Testing Machine

- ❖ FOUR WHEELER FUEL TANK LEAKAGE TESTING MACHINE
- ❖ TWO WHEELER FUEL TANK LEAKAGE TESTING MACHINE



Four Wheeler Fuel Tank Leakage Testing Machine



The test rig shall be designed to check the leakage of fuel tank by immersing in water and observing the air bubbles for leakage.

The rig meets the following requirements:

- a) The component is placed in a cage designed to prevent its bulging when clamped pneumatically.
- b) The cage can move up and down pneumatically inside the water tank immersing the fuel tank under test.
- c) The cage will be locked automatically by suitably designed s.s. clamps operated by two pneumatic cylinders.
- d) There shall be provision for rotating the cage $\pm 180^\circ$ during test time to observe air bubbles from bottom of the tank of leakage.
- e) The water tank of suitable size and all wetted parts are made out of stainless steel.
- f) The water tank will be illuminated from top for better visibility of air bubbles.

This is one push button operated fully automatic equipment controlled by PLC.



UNIQUE



Two Wheeler Fuel Tank Leakage Testing Machine

The testing machine shall be designed to check the leakage of FUEL TANK length by immersing in water and observing the air bubbles for leakage.

The component is placed on the respective fixture specially designed for clamping pneumatically and automatic sealing of all openings.

- ❖ The fixture can move up & down pneumatically inside the water tank immersing the component under test.
- ❖ There shall be provision for testing component at required test pressure of max. 0.5 kg /cm²
- ❖ The water tank of suitable size and all wetted parts are made out of stainless steel.
- ❖ The machine shall be one push button operated fully automatic controlled by a PLC.

SEQUENCE OF OPERATION

The component is placed in the mounting fixtures and as soon as a push button is pressed, the component gets automatically clamped and all openings are sealed pneumatically.

The component automatically immerse in water and air starts filling in the component.

As soon as the test pressure is attained the component will remain in water for 15 seconds or so.

The leakage, if any will be detected by observing air bubbles.

After the test is over the component automatically moves up and gets declamp and unsealed.

The component is removed and cycle can be repeated

