

Wet Probe Test Fixture for verification of flight harness integrity

U R Rao Satellite Centre (URSC) of Indian Space Research Organization (ISRO) has developed Wet Probe Test Fixture for verification of flight harness integrity. It is developed at URSC and is used to test the insulation damage of the flight harness. It offers provisions for vertical translation of the test bed, storage of test medium, Iso-Propyl Alcohol (IPA), feed and drain options for IPA, flame proof pump and flight harness anchoring over test bed.



Salient Features

- ✦ Flame-proof pump for transfer of IPA between test bed and storage tank.
- ✦ Vertical translation of test bed and cover for easy accessibility.
- ✦ Anchoring of connectors using clips 50mm above IPA bath.
- ✦ Overflow valves for both test bed and storage tank.
- ✦ Venting pipes for removal of IPA fumes.
- ✦ Low backlash, Self-holding and stay put braking features.
- ✦ Low acceleration / deceleration transmission drives and controls.
- ✦ Mobility using non-marking wheels compatible to clean room.
- ✦ Worm driven Levelling jacks.
- ✦ Tow bar interface for powered towing.
- ✦ Safety Limit switches, proximity switches, logical controls for fool proof operations.

Major Specifications

- ✦ Max. External Dimensions(LXBXH): 3000 mm X 2000 mm x 3500 mm
- ✦ Storage tank volume : 100 L
- ✦ Safe working load (test bed) : 110 kg & 500 connectors (max.)
- ✦ Pump specifications : 18W, 230V/1 Phase /50 Hz

Technology Transfer

URSC/ISRO offers to transfer this technology of developed Wet Probe Test Fixture for verification of flight harness integrity by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

Technology Transfer & Industry Coordination Division (TTID),
Programme Planning and Evaluation Group (PPEG),

📍 U R Rao Satellite Centre (URSC), ISRO, HAL Airport Road,
Vimanapura Post, Bangalore – 560 017.

✉ Email-id: tt-icd@ursc.gov.in

☎ Fax No: 080-25205261

🌐 <https://www.ursc.gov.in/industry/index.jsp>