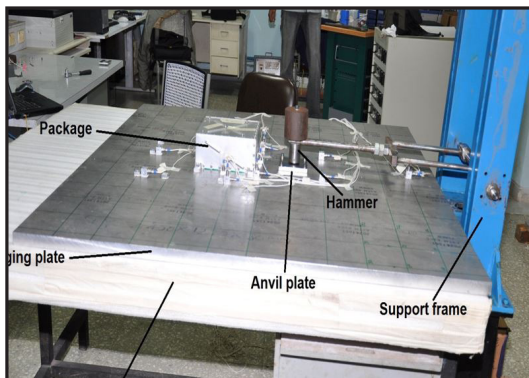


Pyroshock Test Bench

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Pyroshock Test Bench to simulate the pyroshock specification of typical spacecraft equipment.



Salient Features

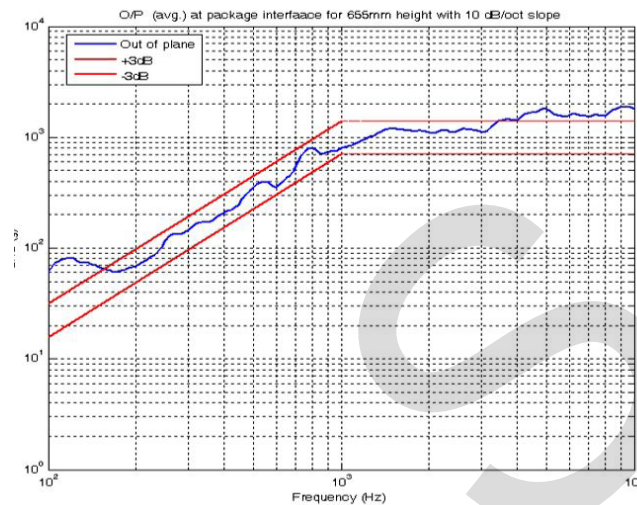
- ✦ Pyroshock test bench simulates pyroshock for shock qualification testing of electronic packages / equipment in both out of plane and in plane directions.

- ✦ Works on the principle of ringing plate method.
- ✦ Designed to generate varying SRS shock levels and knee frequency by parameter selection.

Description

- ✦ Suitable for shock qualification testing of large mass and large size spacecraft subsystems which otherwise has limitations on the existing conventional shock testing facilities.
- ✦ Subsystems of upto mass 20kg and size of 400 mm x 400mm can be tested to 1500g in both out of plane and inplane directions.
- ✦ Overtesting at lower frequencies by conventional shock testing methods is majorly reduced by the shock bench test method.
- ✦ Low cost solution for shock qualification testing of:
 - equipment of spacecraft and launch vehicle.
 - equipment subjected to ballistic shock in defense and aerospace applications.

- ✦ Can be operated by individuals working in dynamic testing with minimum knowledge of shock testing and measurement using accelerometers.
- ✦ Typical out of plane generated shock SRS(g).



Technology Transfer

URSC-ISRO offers to transfer this technology of Pyroshock Test Bench developed 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),

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