



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

FALLING BALL IMPACT TESTING MACHINE FOR CAT EYE ROAD STUD - ASTM D4222



The falling ball impact testing machine is suitable for the impact strength test of plastics, ceramics, acrylic, glass, lenses, hardware and other products like cat eye. This machine places the test product on the test bench, and the steel ball of the specified weight falls freely on the product from the specified drop height, impacts the product, and then checks the appearance and performance of the product. This device is designed in accordance with the "ASTM D4222 -TUP A Falling Ball Impact Performance Method"

- Impact height range: 0-2000MM adjustable (MANUALLY)
- Control mode: electromagnetic control falling, single impact.
- Test height: It can be set and adjusted to fall at a certain height.
- Control box: The separated solenoid is installed from the bottom.
- Volume: 500 X 500 X 2300MM
- Power supply: 220V 50Hz
- Steel ball specifications: ASTM D4222 TUP A (AS PER FIG 2)
- Weight about: 36KG
- The machine will be supplied complete with the clamp to hold the sample.
- The clamp has facility to hold the samples at specific degree in slant and straight position.

Process

- Clamp the sample, and use a universal fixture to clamp the sample according to the shape of the sample and the customer's drop on the sample (whether the sample needs to be clamped by a fixture is according to the customer).
- Start to set the test stroke, loosen the fixed handle on the electromagnet rod with the left hand, move the bottom end of the electromagnet fixing rod to a drop height greater than 4cm (the drop height at this time is not very accurate), and then tighten

the fixed handle slightly, and fix the required steel ball on the electromagnet.

- Place one end of the equipped rectangular ruler perpendicular to the scale of the required height on the drop bar, and make the lower end of the ball perpendicular to the height scale of the required height by moving it slightly, and then tighten the fixed handle.
- Start the test, press the drop button, the steel ball falls freely, impact the sample, and repeat the test and replace the steel ball test or replace the product test according to the customer's needs, and the test results of each time should be recorded.

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