

# Ceramic Impact Tester



The ceramic impact tester is used for the impact test of the center of flat tableware and concave utensils and the impact test of the edge of concave utensils. For the crushing test on the edge of flat tableware, the sample can be glazed or unglazed. The impact test on the test center is used for measurement: one is the energy of a blow that produces an initial crack. Second is generate the energy required for complete crushing.

## Reference standards:

GB / T4742 test method for impact toughness of household ceramics;  
QB / T 1993-2012 test method for impact resistance of ceramic ware;  
American Standard ASTM C 368 test method for impact resistance of ceramic ware.

## Main technical parameters:

1. Maximum impact energy: 2.1h;
2. Minimum division value of dial: 0.014 J;
3. Maximum lifting angle of pendulum clock: 120 degrees;
4. Distance from pendulum shaft center to impact point: 300mm;
5. Maximum lifting distance of worktable: 120mm;
6. Maximum longitudinal movement distance of worktable: 210mm;
7. Sample specification: 6-inch to 10 inch half flat plate, bowl with height no more than 10 cm and caliber no less than 8 cm, cup with caliber no less than 8 cm;
8. Net weight of testing machine: 95 kg;
9. Overall dimension of sample machine: 750 × 400 × 1000mm;

## Usage step:

1. Impact test of concave vessel edge: start 0.027J impact and increase with 0.014J energy,
2. Crushing test on the edge of flat tableware:
  - (1) Start the impact of 0.136 J, and then increase with the capacity of 0.027 J
  - (2) Start 0.027j impact and increase with 0.014j energy,
3. Impact test sequence of flat tableware (knives, forks, spoons, etc.): start the impact of 0.027J, increase the energy of 0.014J until the sample is broken for the first time, and then increase the capacity of 0.028 until the test fails