

## Product Presentation



## Application

Loading the prescribed load in the luggage, lifting the luggage to the prescribed stroke through the handle, the back strap (or the fully opened tie rod), making free falling motion under the action of gravity (the tie rod test adopts uniform motion), and then through the absorption and release of the impact force by the spring, the luggage is subjected to shock and oscillation, so as to test the anti-oscillation impact of the handle, the back strap, the tie rod and the luggage (package). This instrument is suitable for all kinds of bags and suitcases.

## Features

Our company develops our own control system with times setting and counting functions. There's starting, stopping, pausing, counting and clearing functions on the test control panel. It can count from 0 to 999,999 times. The machine stops automatically when the setting times are reached or when the backpack strap is damaged. The control system controls cylinders going up and down. When reaching the lower end, the control system induces the release of electromagnets near the lower part of the switch. Making free impact under the action of gravity, impact to the spring end is the force of the spring, in repeated oscillation and the cylinder drive the electromagnet to the lower end repeated the above actions, the impact speed is  $20 \pm 2$  times per minute.

## Standard

QB/T 2922-2018, QB/T 5083-2018- from September, QB/T 1333 - 2018

## Key Specification

|                         |  |
|-------------------------|--|
| Model                   | GT-LC02  |
| Control system          | PLC and touch screen (using man-machine interface control system, easy to operate, power cut and save function)  |
| Counting                | 0-999 999 times, the equipment will automatically shutdown when it reaches the set number of times, setting the number of impact in the human-machine interface.   |
| Driving Cylinder        | 100 KG weight Cylinder, AINTAC Cylinder  |
| Sample Clamp            | lower suction cup, upper damping rubber block, impact rod, the total weight of common clamps are (8.1+0.2) kg.   |
| Impact Stroke           | The impact device can move up and down, and the one-way stroke is (150 ±5) mm. The stroke is set on the basis of the impact device with an additional load of 30 kg.   |
| Impact Weight           | The stroke is set on the basis of the additional load of the impact device of 30 kg.   |
| Impact Spring           | Spring constant (17.54 ± 0.88) Nmm, spring section is rectangular (8.5 mm × 4.2 mm) length (165 ± 5) mm, outer diameter (44.5 ± 0.5) mm, inner diameter (28.0 ± 0.5) mm, effective number (17 soil 0.5) laps.  |
| Damping Block           | Both end of damping spring is equipped with a circular damping rubber block with an outer diameter of 100 ± 5 mm, a height of 30 ± 3 mm, and a diameter of a central hole of 22 ± 2 mm. The main material is thermoplastic polyurethane, and the hardness is Shore A 85 ± 3. The center hole of the lower damping block should ensure the impact rod passes freely and smoothly. |
| Backpack Clamp          | The quality of backpack belt clamp is (1.35 ± 0.05) kg.  |
| Sample Fixing Materials | bovine split-layer section napped leather, thickness 1.5 mm~2.0 mm, width (100 ± 5) mm, softness 1.5 mm~2.5 mm (test aperture 25 mm).  |
| Gas Source              | 6KG/CM2  |
| Power supply            | 220v, 50/60HZ  |
| Weight                  | 500 kg   |