

Servo Control Multifunctional Keystroke Tester**Model No: S9001G****Application:**

Servo control force displacement tester is controlled by X,Y,Z axis. It is suitable for all kinds of buttons, switches, metal shrapnel, computer buttons, mobile phone buttons, car buttons, remote controls, rubber etc. for doing load-stroke curve test, down force, rebound force test and so on. For choosing suitable fixtures, force stroke testing machine can do button force, compression testing, 3 points bending test, 4 points bending test and so on.

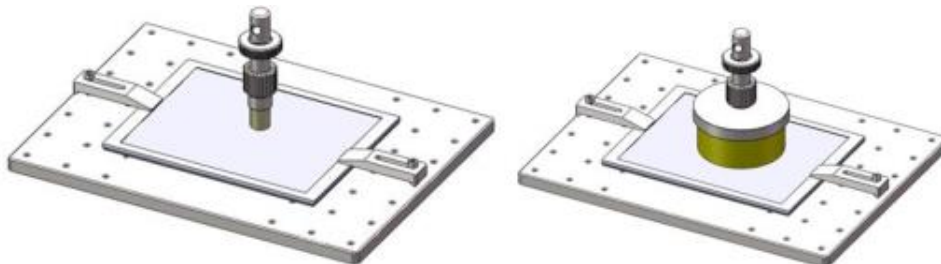
Keystroke button force test machine is control by computer, it is easy to operate, storing test materials automatically: load-stroke curve, life decline curve, test result, moreover the test method can be preserved and adjusted.

Specialties:

1. Button compression force tester have X, Y, Z axes, X,Y are to move the testing platform, so that it can realize the multi-points compression test for the buttons force test and the electronic products compression test; Z axis is connected to the transducer to apply the test force, collect the test force and control the compression time.
2. Key load curve tester is controlled by professional software. It can set test force, test time, test cycles and test speed. Besides, keystroke test machine can collect test force, test time, test speed to generate the test graph.
3. X,Y,Z axes are driven by servo motor from Japanese Panasonic to drive; transmission by precise ballscrew which can achieve the low noise and long durability.
4. Keypress force curve tester has a controlled box, you can use control the machine by control box.
5. This multifunctional compression test machine is floor type, compact structure, small footprint.
6. There have Chinese and English language interface for option and switch the unit (N、Lb、gf、kgf) freely .
7. Testing method can be set, saved or called for use from the saving record, and you can print data or curve.
8. The life damping curve can be created, the test report can be converted to Excel and PDF file format.

Typical Application:**Taking multipoint compression as example.**

1. Using suitable compression pads and select the places of DUT need to be compressed. Then setting parameters, after starting load stroke test equipment will compress the selected places and auto stop after testing.
2. In the parameter setting interface, it can set the compression force, cycles, compression holding time, compression speed. During testing, compression test device will generate the real-time graph "force vs time", and will auto save the test data and the test graph.
3. The test fixture. The diameter for compression pads will be made according to customer requirement.



4. The test graph. The Y axis is force,(unit can be N、Lb、gf、kgf), the X axis is time, the unit is second. the setting for below graph is to compress 5kg to keep 5 second at the 5kg force.

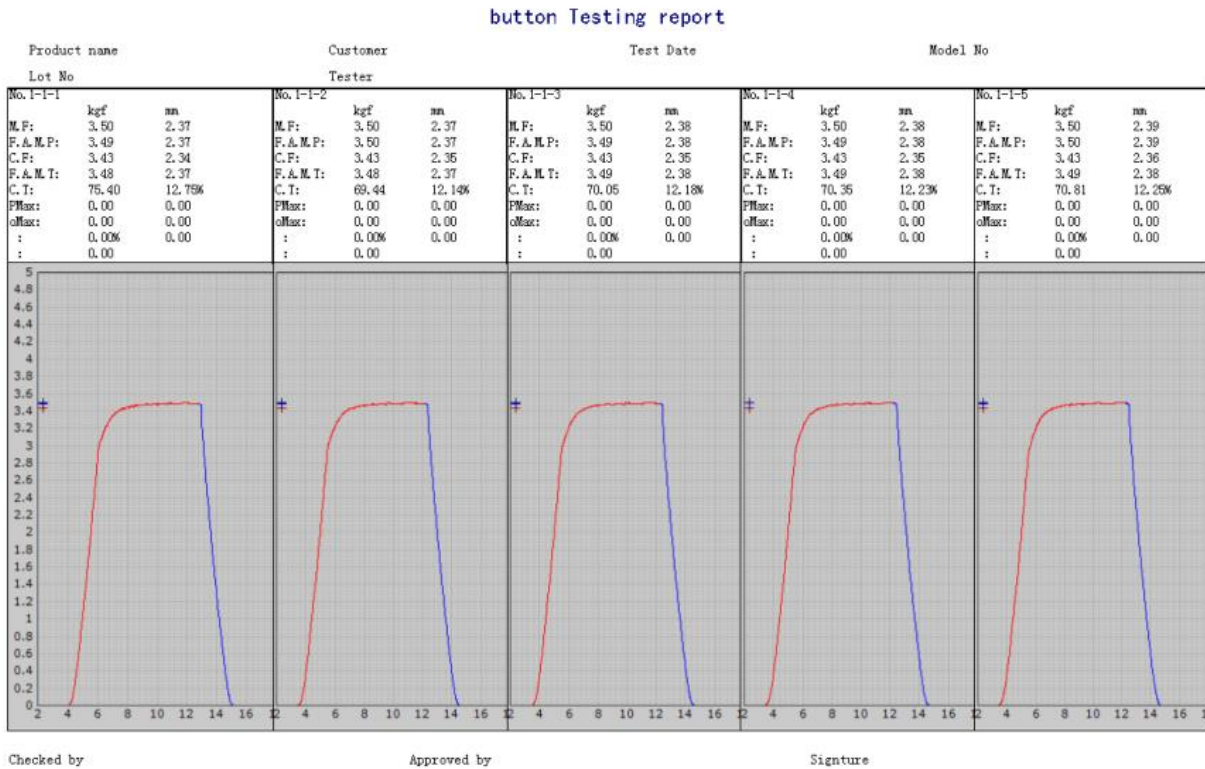
Data Report

| button Testing report | | | | | | | | | | | | | | | |
|-----------------------|----------|----------|----------|---------|-----------|-----------|---------|---------|-------|----------|---------|------|---------|---|---|
| Product name | | Customer | | | | Test Date | | | | Model No | | | | | |
| Lot No | | Tester | | | | | | | | | | | | | |
| | M.F | P.A.M.F | F.A.M.P | M.P | C.F | P.C.F | F.A.M.T | P.A.M.T | C.T | M.T | PMax | iMBC | oMax | | |
| Upper | 9803.92 | 1000 | 9803.92 | 1000 | 9803.92 | 10.4 | 9803.92 | 1000 | 102 | 1000 | 9803.92 | 1000 | 9803.92 | 0 | 0 |
| Lower | -100 | -100 | -100 | -100 | -100 | -100 | -100 | -100 | -100 | -100 | 0 | 0 | 0 | 0 | 0 |
| Mid | 4851.96 | 450 | 4851.96 | 450 | 4851.96 | -44.8 | 4851.96 | 450 | 1 | 450 | 4901.96 | 500 | 4901.96 | 0 | 0 |
| Max | 3.5 | 2.41 | 3.5 | 2.41 | 3.43 | 2.38 | 3.5 | 2.41 | 75.4 | 12.75 | 0 | 0 | 0 | 0 | 0 |
| Min | 3.5 | 2.37 | 3.49 | 2.37 | 3.43 | 2.34 | 3.48 | 2.37 | 69.44 | 12.14 | 0 | 0 | 0 | 0 | 0 |
| Avg | 3.5 | 2.39 | 3.5 | 2.39 | 3.43 | 2.36 | 3.49 | 2.39 | 70.9 | 12.28 | 0 | 0 | 0 | 0 | 0 |
| Rang | 0.01 | 0.04 | 0.01 | 0.04 | 0 | 0.04 | 0.02 | 0.04 | 5.96 | 0.61 | 0 | 0 | 0 | 0 | 0 |
| Cpk | 15481.13 | 2883.76 | 10365.85 | 2883.76 | 228830.03 | 238.14 | 6356.42 | 2903.49 | 6.58 | 229.21 | 0 | 0 | 0 | 0 | 0 |

| | M.F | P.A.M.F | F.A.M.P | M.P | C.F | P.C.F | F.A.M.T | P.A.M.T | C.T | M.T | PMax | iMBC | oMax | | |
|--------|-----|---------|---------|------|------|-------|---------|---------|-------|-------|------|------|------|---|---|
| I-1-1 | 3.5 | 2.37 | 3.49 | 2.37 | 3.43 | 2.34 | 3.48 | 2.37 | 75.4 | 12.75 | 0 | 0 | 0 | 0 | 0 |
| I-1-2 | 3.5 | 2.37 | 3.5 | 2.37 | 3.43 | 2.35 | 3.48 | 2.37 | 69.44 | 12.14 | 0 | 0 | 0 | 0 | 0 |
| I-1-3 | 3.5 | 2.38 | 3.49 | 2.38 | 3.43 | 2.35 | 3.49 | 2.38 | 70.05 | 12.18 | 0 | 0 | 0 | 0 | 0 |
| I-1-4 | 3.5 | 2.38 | 3.49 | 2.38 | 3.43 | 2.35 | 3.49 | 2.38 | 70.35 | 12.23 | 0 | 0 | 0 | 0 | 0 |
| I-1-5 | 3.5 | 2.39 | 3.5 | 2.39 | 3.43 | 2.36 | 3.49 | 2.38 | 70.81 | 12.25 | 0 | 0 | 0 | 0 | 0 |
| I-1-6 | 3.5 | 2.39 | 3.5 | 2.39 | 3.43 | 2.36 | 3.5 | 2.39 | 70.35 | 12.23 | 0 | 0 | 0 | 0 | 0 |
| I-1-7 | 3.5 | 2.39 | 3.5 | 2.39 | 3.43 | 2.37 | 3.49 | 2.39 | 70.35 | 12.2 | 0 | 0 | 0 | 0 | 0 |
| I-1-8 | 3.5 | 2.39 | 3.5 | 2.39 | 3.43 | 2.36 | 3.49 | 2.39 | 70.66 | 12.28 | 0 | 0 | 0 | 0 | 0 |
| I-1-9 | 3.5 | 2.4 | 3.49 | 2.4 | 3.43 | 2.37 | 3.48 | 2.4 | 70.2 | 12.21 | 0 | 0 | 0 | 0 | 0 |
| I-1-10 | 3.5 | 2.41 | 3.5 | 2.41 | 3.43 | 2.38 | 3.5 | 2.41 | 71.42 | 12.34 | 0 | 0 | 0 | 0 | 0 |

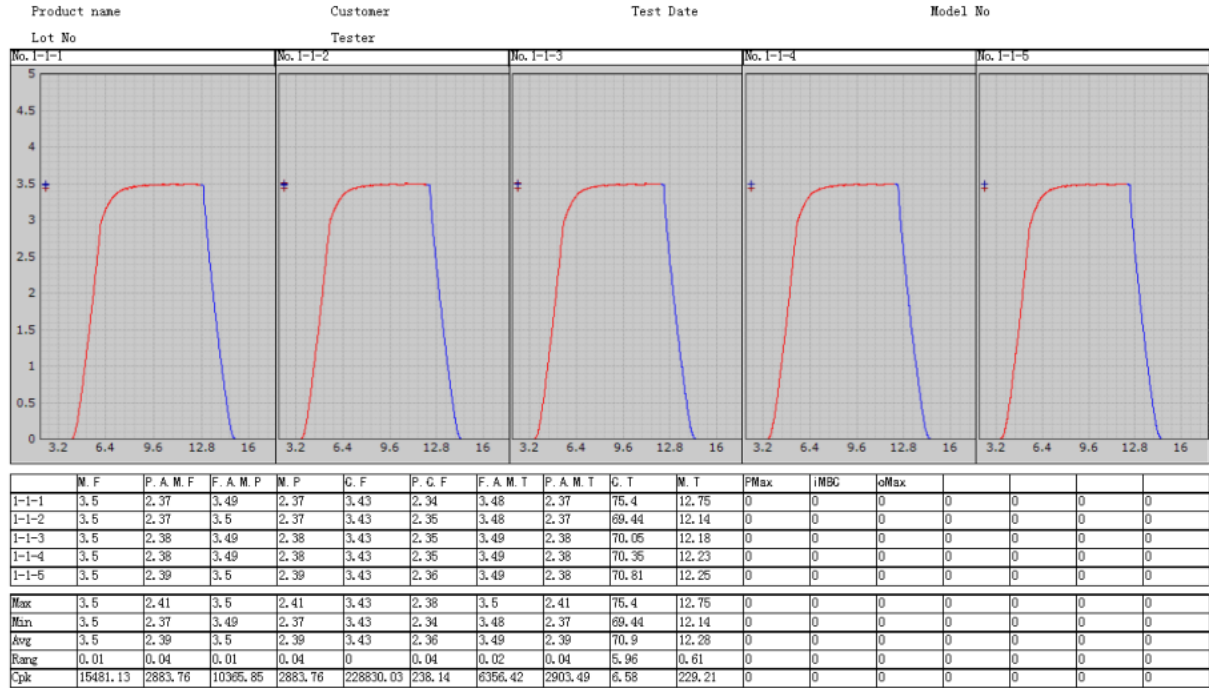
Checked by _____ Approved by _____ Signature _____

Graph Report



Data & Graph Report

button Testing report



Checked by

Approved by

Signature

Specification:

| | |
|--------------------------------|---|
| Model | S9001G |
| Driving method of Z axis | Servo motor of Japanese Panasonic |
| Test range of load | 0~1000N(100kgf) |
| Range of driving (up and down) | 0~200mm |
| Resolution of load | 0.01N |
| Accuracy of load | ±0.5%F.S |
| Test range of displacement | 0~150mm |
| Resolution of displacement | 0.001mm |
| Accuracy of displacement | ±0.03mm |
| Range of test speed | 0.1~200mm/min |
| Driving method of X-Y axis | Servo motor from Panasonic |
| Control way | X:(right and left) Y:(forward and backward) |
| Driving range | X:0~460mm Y:0~300mm |
| Resolution of displacement | 0.002mm |
| Accuracy of displacement | ±0.05mm |
| Range of moving speed | 5~200mm/sec |
| Max size of specimen | W500xD260mmxH150mm |
| Weight | About 350kg |
| Size of machine | W1270xD75mmxH1890mm |

 **Appearance:**

