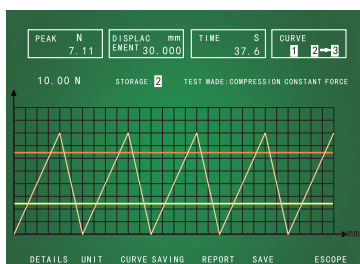
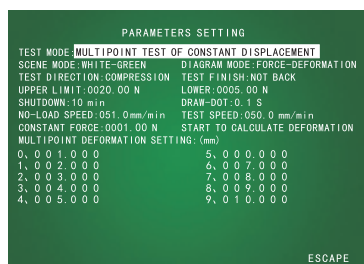


**SDS Series Full-Automatic Spring Tester**

SDS is a Full-automatic spring tester which adopts advanced electronic technique and accurate mechanical drive with high precision sensor. The tester could be used in spring/rubber/ compression and tension.

Product feature

- 800x480 pixel, TFT colorful screen with touch functions, peak/real-time value/force curve display at the same time.
- Different test mode for different spring test requirements: Constant force mode, Constant displacement mode, constant force circle mode, constant displacement circle mode, constant force multipoint test mode, constant displacement multipoint test mode.
- Save 10 test value and 3 groups curve test, could view the value of every point on curve, test report could be printed by printer inside.
- Four unit option: N, kgf, lbf, ozf, automatic exchange.
- Automatic calibration of displacement zero.
- Automatic back to start location after test finish.
- Two speed mode, high speed approach and low speed collect.
- Protection functions of mechanical limit/over-load Automatic stop/scram.
- High precision ball screw, better drive efficiency and high accurate displacement.
- Servo drive system, low noise and good stabilization.
- High accuracy sensor, better test precision.
- Automatic off mode without any operation, time is set freely.
- Patent number: ZL201320336788.4/ZL201320337159.3/
ZL201320339173.7/ZL201320338573.6/ZL201320338699.3/
ZL201310232475.9.

**Parameter****Display interface****SDS Series Full-automatic spring tester**

| Model | SDS-10 | SDS-100 | SDS-500 | SDS-1000 |
|----------------------------|---|---------|---------|----------|
| capacity | 10N | 100N | 500N | 1000 |
| Resolution | 0.001N | 0.01N | 0.05N | 0.1N |
| Force Accuracy | 1%~100%FS | | | |
| Force test range | $\pm 1\%$ (test range<10%FS) , $\pm 0.5\%$ (test range>10%FS) | | | |
| Test Speed | 0.5~500mm/min | | | |
| Speed Accuracy | $\pm 2\%$ (test range<10%FS) , $\pm 1\%$ (test range>10%FS) | | | |
| Replacement Resolution | 0.001mm | | | |
| Stroke | 170mm | | | |
| Max free length for spring | 170mm | | | |
| Platen Diameter | $\phi 50\text{mm}$ | | | |
| Unit | N, kgf, lbf, ozf | | | |
| Power | AC 220V $\pm 10\%$ 50、60Hz | | | |
| Work temperature | 20 $\pm 10^\circ\text{C}$ | | | |
| Work environment | No shock and causticity around | | | |
| Transportation temperature | -27 $^\circ\text{C}$ ~+70 $^\circ\text{C}$ | | | |
| Dimension | 460 \times 370 \times 615mm | | | |
| Weight | About 79kg | | | |

Note : the appearance and color depends on the real product.