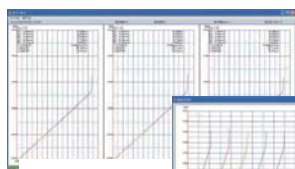


A high-tech and easy operation type Automatic Spring Tester which can be used on both tensile and compression tests. Equipped with an easy visible blue colored back-light LCD panel and a Jog Dial enables smooth positioning by hand operations. Including a built-in printer (high speed printing) with which you can record the test results, totalized data and etc. Applying USB1.1 for external wiring network and it enables high speed data communications with PC.



PC Software FSP-200

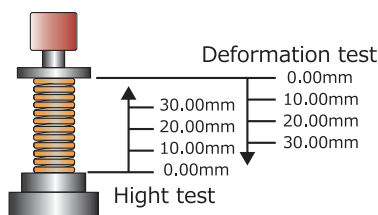


ASP CHARACTERISTIC

1. Applicable for load tests of compression springs, tension springs, washer springs.
2. Setting 5 test points at maximum.
3. For measurements of load at optional set points, free length, initial load, peak load are possible.
4. Instant printing of test data by high speed built-in printer.
5. Two ways of test that are Height Setting Test, Displacement Setting Test and Find the mean by coming and going Test.
6. Possible to register the item number and it enables to start the test just by recalling the item number without re-input of the test conditions.
7. Tolerance (upper and lower limit) setting and totalizing function is devised, and GO/NOGO judge, process capability etc. can be seen by a glance.
8. Monitor display can be switched from/to Japanese/English/Chinese/Korean version at any time by key operation.
9. Measurement of displacement and deformation by preset of a certain load value. (equipped as standard for S Model).
10. Complex test mode enables measurement of load and displacement during a single test sequence. (equipped as standard for S Model).

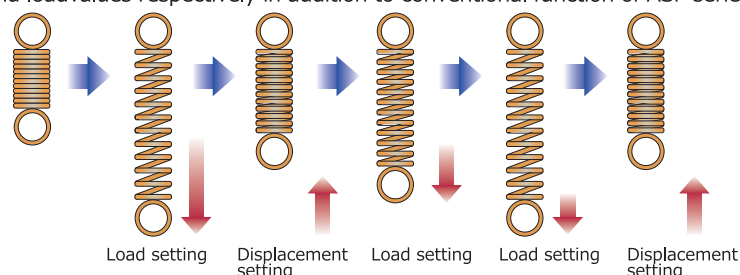
Height Setting / Deformation Setting

Selectable two test methods: Length test and deformation test are available. ON compression test, length and load value when the spring is fully compressed can be measured.



Complex test mode (S Model)

Maximum of 5 points (either displacement and load values) can be measured combining setting at any require points of displacement and load values respectively in addition to conventional function of ASP series.



ASP Specifications

Spec\Model	ASP-1/ASP-1S	ASP-5/ASP-5S	ASP-10/ASP-10S	ASP-50/ASP-50S
Capacity	10N (1kgf)	50N (5kgf)	100N (10kgf)	500N (50kgf)
Measurement unit	N, gf, lb	N, gf, lb	N, gf, lb	N, kgf, lb
Load resolution	0.1mN (0.01gf)	1mN (0.1gf)	1mN (0.1gf)	10mN (1gf)
Length resolution	0.01mm	0.01mm	0.01mm	0.01mm
Test speed	1~600mm/min	1~600mm/min	1~600mm/min	1~600mm/min
Max test length	210mm	210mm	210mm	210mm
Anvil diameter	20Φ	60Φ	60Φ	60Φ
Machine standard	Class 0.5 of JIS B 7738 Coil spring compression/tension tester based			
Mechanism part	Precision ball screw and AC Servo Motor			
Safety Measures	Limit stop, Over load stop, Emergency SW			
Communication Method	USB1.1	USB1.1	USB1.1	USB1.1
Dimension	W450×H570×D350	W450×H570×D350	W450×H570×D350	W450×H570×D350
Weight	approx.45kg	approx.45kg	approx.45kg	approx.45kg
Power Source	AC100 or 220V	AC100 or 220V	AC100 or 220V	AC100 or 220V

* S Model : Equipped with Load setting test mode

* Specifications are subject to change without prior notice

Option



The compression board with the pinhole for the measurement of the spring falling down

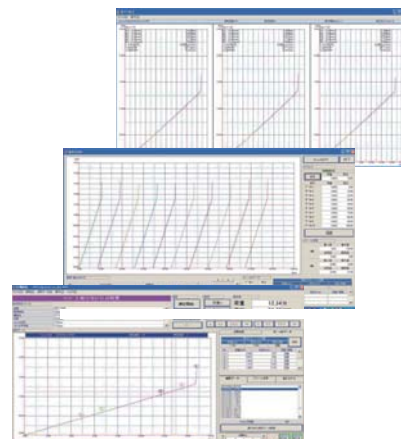
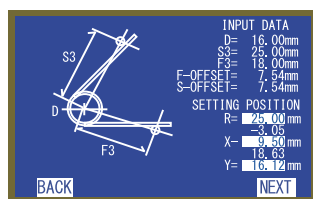
Load testing machine for torsion spring with basic functions of the ASP series tensile and compression spring tester. Easily set test conditions by inputting basic spring data and following onscreen guidance.

Complicated calculations such as angle are automatically computed.

You can easily operate positioning using the Jog dial and blue coloured back-light for better visibility.

Easy View Graphic Display

Input dimensions of spring is displayed in graph based on basic condition setting. For input work can be done by checking both drawing and graphic display, easy to compare and eliminate mistakes in setting.



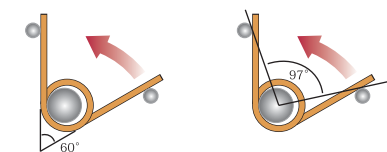
PC Software FSP-300

STP CHARACTERISTIC

1. Measurement of load value, torque value and free angle (center of angle / outer of angle) of torsion spring is possible.
2. Setting 5 test points at maximum.
3. Two ways of test that are Angle Setting Test, Deformation Setting Test and Find the mean by coming and going Test.
4. Instant printing of test data by high speed built-in printer.
5. Possible to register the item number and it enables to start the test just by recalling the item number without re-input of the test conditions.
6. Tolerance (upper and lower limit) setting and totalizing function is devised, and GO/NOGO judge, process capability etc. can be seen by a glance.
7. Monitor display can be switched from/to Japanese/English/Chinese/Korean version at any time by key operation.
8. Test mode of widening direction of angle is mounted in addition to the test of closing direction of angle. (equipped as standard for S Model).

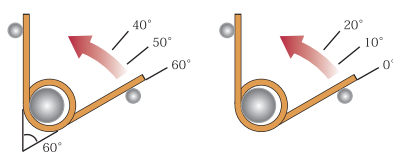
*Please be sure that some springs such as few coiling etc. may not be possible to perform accurate measurement.

2-ways of test :
Center of Angle Setting / Out of Angle Setting.



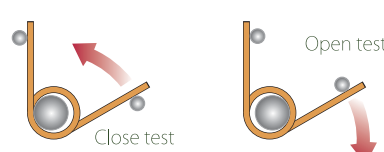
Outer angle test
Equipped with Center of Angle Test and Out of Angle Switching System.

2-ways of mode :
Angle Setting / Deformation Setting.



Test by setting angle
Test by setting deformation
Selectable two test methods: Length test and deformation test are available.

2-ways of mode :
Close Testing / Open Testing



The STP-S model deals with the inspection of the direction opening an angle in addition to the inspection of the direction closing a general angle.

STP Specifications

Spec\Model	STP-5 / STP-5S	STP-10 / STP-10S	STP-50 / STP-50S
Capacity	50N (5kgf)	100N (10kgf)	500N (50kgf)
Measurement unit	N, gf	N, gf	N, kgf
Torque unit	Nmm, Ncm, Nm gfmm, gfcmm, gfm	Nmm, Ncm, Nm gfmm, gfcmm, gfm	Nmm, Ncm, Nm kgfmm, kgfcm, kgfm
Resolution	0.001Nmm	0.001Nmm	0.01Nmm
Measurement Angle	0.1~7200.0deg	0.1~7200.0deg	0.1~7200.0deg
Test Speed	10~1800deg/min	10~1800deg/min	10~1800deg/min
X-axis	±25mm	±25mm	±25mm
Y-axis	60mm	60mm	60mm
Z-axis	80mm	80mm	80mm
Machine standard	Class 0.5 of JIS B 7738 Coil spring compression/tension tester based		
Mechanism part	AC Servo Motor		
Safety Measures	Limit stop, Over load stop, Emergency SW		
Communication Method	USB1.1	USB1.1	USB1.1
Dimension	W490×H620×D490	W490×H620×D490	W490×H620×D490
Weight	approx.65kg	approx.65kg	approx.65kg
Power Source	AC100 or 220V	AC100 or 220V	AC100 or 220V

* S Model : Equipped with OPEN test mode * Specifications are subject to change without prior notice

PC Software FSP-300 (Option)

A wave pattern draws test data on a PC in real time and can perform data analysis from a test result. Perform all the testing equipment operation, examination condition registration, examination condition summons on a PC; a test result and a wave pattern data, count result on EXCEL Export is possible.

- Test condition registration.
- Examination machine control.
- Arranges and the real-time data communication.
- Wave type drawing is displayed.
- It arranges and it displays it.
- Shape of waves is displayed repeatedly.
- Waveform data reading.
- Pick up data registration.
- EXCEL export.
- Data total function.
- Test result making.

It corresponds to Japanese/English/Simple chinese/Traditional Chinese/Korean.

Automatic Spring Tester

MODEL ASP series

High load type

Automatic spring tester

A high-tech and easy operation type Automatic Spring Tester which can be used on both tensile and compression tests. You can easily operate positioning using the Jog dial and blue coloured back-light LCD panels for better visibility. Includes a built-in printer (high speed printing) for printing test results or totalized data.

The USB 1.1 port makes it possible to transmit data at high speeds via external connection to the PC.



High-load type A S P Specifications

PC software FSP-200

Spec\Model	ASP-100/ASP-100S	ASP-200/ASP-200S	ASP-500/ASP-500S	ASP-1000/ASP-1000S	ASP-2000/ASP-2000S
Capacity	1kN (100kgf)	2kN (200kgf)	5kN (500kgf)	10kN (1000kgf)	20kN (2000kgf)
Measurement unit	N, kgf, lb	N, kgf, lb	N, kgf, lb	N, kgf, lb	N, kgf, lb
Load resolution	10mN (1gf)	100mN (10gf)	100mN (10gf)	100mN (10gf)	1N (100gf)
Length resolution	0.01mm	0.01mm	0.01mm	0.01mm	0.01mm
Test speed	1~600mm/min	1~600mm/min	1~600mm/min	1~600mm/min	1~600mm/min
Max test length	600mm	600mm	600mm	800mm	800mm
Anvil diameter	150Φ	150Φ	150Φ	200Φ	200Φ
Machine standard	Class 0.5 of JIS B 7738 Coil spring compression/tension tester based				
Mechanism part	Precision ball screw and AC Servo Motor				
Safety Measures	Limit stop, Over load stop, Emergency SW				
Communication Method	USB1.1	USB1.1	USB1.1	USB1.1	USB1.1
Dimension	W770×H1277×D390	W770×H1277×D390	W770×H1277×D390	W870×H1770×D390	W870×H1770×D390
Weight	approx.190kg	approx.190kg	approx.190kg	approx.220kg	approx.260kg
Power Source	AC100 or 220V	AC100 or 220V	AC100 or 220V	AC100 or 220V	AC100 or 220V

* S Model : Equipped with load setting test mode

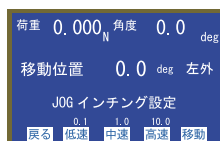
* If you require testing equipment suitable for over 20kN, please contact us.

* Specifications are subject to change without prior notice

R ASP&STP

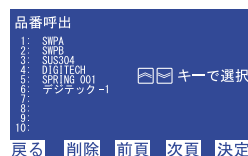
RICH IN FUNCTION

【Jog/Shuttle Dial Controller】



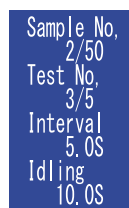
By turning Shuttle Dial (outside), the test speed can be easily changed from Low to High, and the Jog Dial (inside) can control the transferring distance precisely.(0.01mm, 0.10mm, 1.00mm)

【Registration and Recall of Item Number】



You can save up to 50 test conditions. Saved conditions allow subsequent testing to be carried out smoothly.

【Real Time Display of Test Process】



- Sample number situation
- Repeat test situation
- Display of interval time
- Display of idling time at each step

【Display of Bar-Graph】



By setting tolerance (upper/lower limit), bar graph is displayed on the data of each point, spring rate, free length, initial load, length at fully compressed spring.

【List-up Display of Test Results and Totalized Data】

Maker	DIGITECH
User	ゲジテック
Product	OSAKA
G.W.	500g
Wire dia	1.00mm
V.W.ram	12.5
O.d. Coil	20.0mm
A.d. Coil	18.50mm
No. 1	
1	10.00mm 316.9g
2	12.00mm 357.5g
3	14.00mm 400.1g
1-2 S.RATE	20.3g/mm
F.LENGTH	37.0mm
I.LONG	170.3g

Printing test results and totalized data with various registered information such as item number, name, company name, customer name, material information of spring etc.

【List-up Display of Test Results and Totalized Data.】

基準値	10.00	12.00	3
Set Point			
Std. value	311.2	354.3	396.5
Lim. upper	311.2	354.3	396.5
Lim. lower	311.0	354.1	396.3
集計結果			
φ	1.4695	0.3633	0.2966
σ	4.4096	1.0599	0.8899
cp	0.0453	0.1834	0.2247
cpk	0.0000	0.0000	0.0000
戻る	結果明細		

List up data such as number of passed, number of NG, maximum and minimum value, CP value etc. shall be displayed with automatic totalization.