ISF-F SERIES

FORCE GAUGE
OPERATION MANUAL



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MN-ISF-F SERIES-E
V1

1.Technical Specification

SPECIFICATION

Code		ISF-F10	ISF-F20	ISF-F30	ISF-F50	ISF-F100	ISF-F200	ISF-F300	ISF-F500
Capacity	N	10	20	30	50	100	200	300	500
	kgf	1	2	3	5	10	20	30	50
Graduation	N	0.05	0.1	0.2	0.25	0.5	1	2	2.5
	kgf	0.01	0.02	0.02	0.05	0.1	0.2	0.2	0.5
Accuracy		±1% (of load capacity)							

2.Parts Description



3. Preparation

Choose appropriate clamp and install it on the gauge before test.

3.1 Pull test
Choose appropriate pull clamp (marked [PULL] on the center) and install it.

3.2 Push test
Choose appropriate clamp from push clamps (marked [push] on the center) and install it.

3.3 Use of prolong stick
When the clamp is not able to touch the tested work piece, need to use prolong.
Note: when using a prolong stick to test, the tested work piece and gauge must be on the same straight line. Or the measurement value is not accurate.

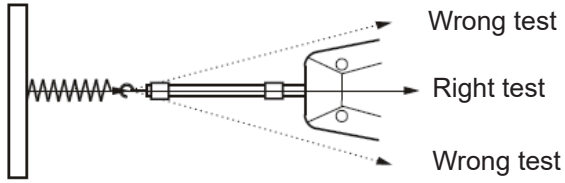
3.4 The operation method of changing knob
(a) [PEAK] model change into [TRACK] model
Lightly press knob changing, at the same time, turn it to left to make the mark "•" point to [TRACK].
(b) [TRACK] model change into [PEAK] model
Turn knob to right, the knob springs and the mark "•" point to [PEAK].
(c) Attention after testing
After finishing testing, make sure the mark "•" is point to [PEAK]. If changing knob is point to [TRACK] for a long time, life time of the internal zero-setting spring plate will be shortened.

3.5Adjustment of indicator dial
(a) Please confirm whether needle points to zero, if not, please turn around the adjustable circle of dial, and dial will run with it to make needle point to zero.

(b) When the machine is vertically placed to use, especially with installing clamp, even not applied load, the needle will be not point to zero. It is because of the deadweight of the machine and clamp. Turn around the adjustable circle of dial to make needle point to zero, which can't affect accuracy of testing result.

4.Test

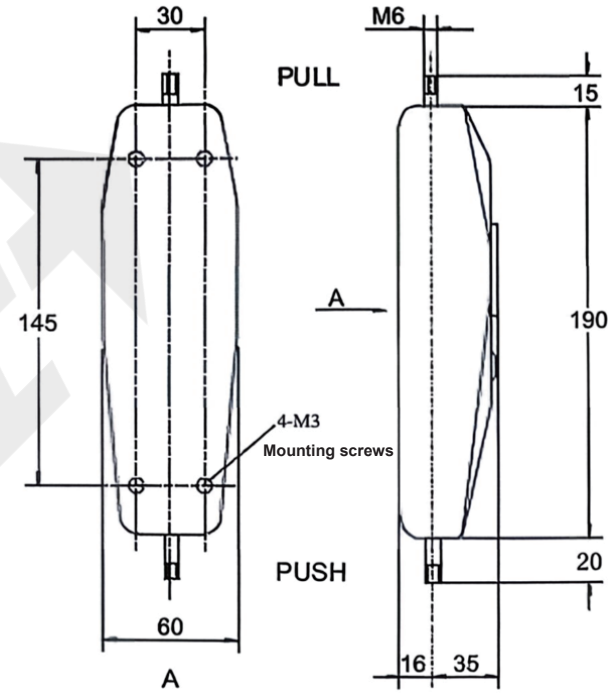
Please tightly hold gauge by hands or put it on appropriate stands to make a test. When testing, please adjust tested work piece and gauge on the same straight line, if they are not, we will not get the correct tested value of load.



5.TRACK and PEAK functions

(1) TRACK
When the knob turns to the [TRACK], the needle turns in accordance with change of force.
(2) PEAK
When the knob turns to the [TRACK], the value is the max. force of the testing process. After the force is unloaded, the needle can't turn back to zero.

6.Appearance and Install size



7. Maintenance

(1) The load should be less than the max. capacity of the clamp, or it will damage the instrument and endanger the safe of testing people.
(2) When installing on the other stands to use, please use M3 screws to fix and install on the gauge.
(3) Please don't apply load exceeding the max. test range of gauge to avoid damaging instrument and producing trouble.
(4) Don't store or use the force gauge in the place of low or high temperature and humidity. Please store and use it in the normal environment.
(5) Please store the gauge in the place of solid and level, if you put it in the unstable place, gauge is easily fallen to damaged.